


\* Condition % Ratings are based on the Arborist Report prepared by Green Spaces Consulting, Inc. (Kirstie McCullough, ISA Certified Arborist FL-9601A)

| Tree Disposition and Mitigation   |   |                     |        |        |  |   |  |  |  |  |
|---|---|---------------------|--------|--------|--|---|--|--|--|--|
| Project Address:  |   |                     |        |        | Parcel ID (for multiple IDs, use one for the common area): |   |  |  |  |  |
| Preserve  |   |                     |        |        |  |   |  |  |  |  |
| Tree #  | Common Name   | Scientific Name     | Height | Spread | DBH  | Condition Rating  | Comments   |  |  |  |
| 3   | Cabbage Palm  | Sabal palmetto      | 12     | 8      | 11   | 60%   | OFF SITE   |  |  |  |
| 4   | Live Oak  | Quercus virginiana  | 12     | 10     | 8  | 35%   | OFF SITE   |  |  |  |
| 5   | Live Oak  | Quercus virginiana  | 12     | 10     | 12   | 35%   | OFF SITE   |  |  |  |
| 6   | Live Oak  | Quercus virginiana  | 18     | 14     | 6  | 35%   | OFF SITE   |  |  |  |
| 15  | Live Oak  | Quercus virginiana  | 22     | 8      | 14   | 0% dead   | OFF SITE   |  |  |  |
| Palm #  | Common Name   | Scientific Name     | Height | Spread | Clear Trunk  | Condition Rating  | Comments   |  |  |  |
| 27  | Coconut Palm  | Cocos nucifera      | 42     | 15     | 30   | 60%   | EX CORNER INTERSECTION ISLANDS   |  |  |  |
| 28  | Coconut Palm  | Cocos nucifera      | 40     | 15     | 28   | 60%   | EX CORNER INTERSECTION ISLANDS   |  |  |  |
| 29  | Coconut Palm  | Cocos nucifera      | 38     | 15     | 26   | 60%   | EX CORNER INTERSECTION ISLANDS   |  |  |  |
| 30  | Coconut Palm  | Cocos nucifera      | 32     | 18     | 20   | 60%   | EX CORNER INTERSECTION ISLANDS   |  |  |  |
| Relocation  |   |                     |        |        |  |   |  |  |  |  |
| Tree #  | Common Name   | Scientific Name     | Height | Spread | DBH  | Condition Rating  | Comments   |  |  |  |
| Palm #  | Common Name   | Scientific Name     | Height | Spread | Clear Trunk  | Condition Rating  | Comments   |  |  |  |
| N/A   | N/A   |                     |        |        |  |   |  |  |  |  |
| N/A   | N/A   |                     |        |        |  |   |  |  |  |  |
| Removal   |   |                     |        |        |  |   |  |  |  |  |
| Tree #  | Common Name   | Scientific Name     | Height | Spread | DBH  | Condition Rating < 50%  | Comments   |  |  | MITIGATION   |
| 7   | Live Oak  | Quercus virginiana  | 18     | 16     | 15   | 40%   | Severely limited root zone. Overhead wire conflict. Tip dieback. Mechanical trunk damage.  |  |  | REPLACEMENT ON SITE  |
| 8   | Live Oak  | Quercus virginiana  | 16     | 20     | 16   | 30%   | Severely limited root zone. Previously stub cut. Dieback of limbs 103" in diameter. Mechanical damage at base of trunk.                            |  |  | REPLACEMENT ON SITE  |
| 12  | Live Oak  | Quercus virginiana  | 22     | 14     | 8  | 30%   | Limited root zone. Low vigor, dieback throughout canopy, very low crown density.   |  |  | REPLACEMENT ON SITE  |
| 17  | Live Oak  | Quercus virginiana  | 20     | 14     | 8  | 45%   | Severely limited root zone. Overhead wire conflict. Tip dieback. Storm damage.   |  |  | REPLACEMENT ON SITE  |
| 19  | Live Oak  | Quercus virginiana  | 20     | 25     | 18.5   | 45%   | Severely limited root zone. Overhead wire conflict. Tip dieback. Codominance in the lower half.  |  |  | REPLACEMENT ON SITE  |
| 20  | Live Oak  | Quercus virginiana  | 26     | 30     | 20   | 45%   | Severely limited root zone. Poor structure, multi-codominance in lower half. Tip dieback throughout canopy.  |  |  | REPLACEMENT ON SITE  |
| 21  | Black Olive   | Terminalia buccaris | 25     | 30     | 20   | 45%   | Severely limited root zone. Poor structure, major codominance in the lower half, previously overfertilized. Good vigor.                            |  |  | REPLACEMENT ON SITE  |
| 22  | Live Oak  | Quercus virginiana  | 22     | 14     | 11.5   | 30%   | Severely limited root zone. Very low crown density. Tip dieback.   |  |  | REPLACEMENT ON SITE  |
|   |   |                     |        |        |  | Condition Rating ≥ 50%  |  |  |  |  |
| 9   | Yellow Trumpet Tree   | Tabebuia umbellata  | 18     | 14     | 15   | 50%   | Severely limited root zone. Previously stub cut. Weak attachments. Canopy competition.   |  |  | IN-LIEU FEE  |
| 10  | Live Oak  | Quercus virginiana  | 20     | 20     | 10   | 60%   | Severely limited root zone. Overhead wire conflict. Previously overfertilized.   |  |  | REPLACEMENT ON SITE  |
| 11  | Live Oak  | Quercus virginiana  | 22     | 20     | 10   | 55%   | Severely limited root zone. Tip dieback 1-2" in diameter throughout canopy.  |  |  | REPLACEMENT ON SITE  |
| 13  | Live Oak  | Quercus virginiana  | 22     | 20     | 12   | 50%   | Severely limited root zone. Poor structure, codominance in lower half, previously overfertilized. Poor vigor, Tip dieback 1" in diameter.          |  |  | IN-LIEU FEE  |
| 14  | Live Oak  | Quercus virginiana  | 22     | 20     | 16   | 50%   | Severely limited root zone. Poor structure, codominance in lower half, previously overfertilized.  |  |  | IN-LIEU FEE  |
| 16  | Live Oak  | Quercus virginiana  | 23     | 16     | 12   | 50%   | Offsite. Utility conflict. Severely limited root zone. Poor structure, leaning, codominance in upper half. Tip dieback. Deadwood 1-3" in diameter. |  |  | REPLACEMENT ON SITE  |
| 18  | Live Oak  | Quercus virginiana  | 20     | 30     | 15   | 55%   | severely limited root zone. Overhead wire conflict. Tip dieback.   |  |  | IN-LIEU FEE  |
| 26  | Live Oak  | Quercus virginiana  | 24     | 30     | 14   | 55%   | severely limited root zone. Tip dieback.   |  |  | REPLACEMENT ON SITE  |
|   |   |                     |        |        |  | Trees with Condition Rating < 50% to be Removed:                  |  |  |  |  |
|   |   |                     |        |        |  | Total DBHs of Trees with Condition Rating ≥ 50% to be Removed:    |  |  |  |  |
|   |   |                     |        |        |  | 8 Trees   |  |  |  |  |
|   |   |                     |        |        |  | 104 DBH inches / 8 Trees  |  |  |  |  |
| Palm #  | Common Name   | Scientific Name     | Height | Spread | Clear Trunk  | Condition Rating < 50%  | Comments   |  |  |  |
|   |   |                     |        |        |  | Condition Rating ≥ 50%  |  |  |  |  |
| 1   | Cabbage Palm  | Sabal palmetto      | 20     | 8      | 16   | 60%   |  |  |  | IN-LIEU FEE  |
| 2   | Cabbage Palm  | Sabal palmetto      | 14     | 8      | 10   | 70%   |  |  |  | IN-LIEU FEE  |
| 21a   | Cabbage Palm  | Sabal palmetto      | 16     | 8      | 12   | 60%   |  |  |  | IN-LIEU FEE  |
| 23  | Cabbage Palm  | Sabal palmetto      | 23     | 8      | 19   | 60%   | some trunk penciling. Leaning  |  |  | IN-LIEU FEE  |
| 24  | Cabbage Palm  | Sabal palmetto      | 26     | 8      | 22   | 70%   |  |  |  | IN-LIEU FEE  |
| 25  | Cabbage Palm  | Sabal palmetto      | 25     | 6      | 21   | 60%   | Peeling bark.  |  |  | IN-LIEU FEE  |
|   |   |                     |        |        |  | Total Numbers of Palms with Condition Rating < 50% to be Removed: |  |  |  |  |
|   |   |                     |        |        |  | 0 Palms   |  |  |  |  |
|   |   |                     |        |        |  | Total Heights of Palms with Condition Rating ≥ 50% to be Removed: |  |  |  |  |
|   |   |                     |        |        |  | 124 feet in height / 6 palms                                      |  |  |  |  |
|   |   |                     |        |        |  | ***6 Cabbage Palms to be removed totaling 100 feet of C.T.        |  |  |  | no new palms are proposed on-site  |
| Mitigation  |   |                     |        |        |  |   |  |  |  |  |
| Tree Replacement Calculations*  |   |                     |        |        |  |   |  |  |  |  |
| New Trees   |   |                     |        |        |  |   |  |  |  |  |
| 1 Live Oak  |   |                     |        |        |  |   |  |  |  |  |
| 10 Simpson Stoppers   |   |                     |        |        |  |   |  |  |  |  |
| 8 Bridal Veil   |   |                     |        |        |  |   |  |  |  |  |
| Replacement on-site for Trees (Removed, Condition Rating < 50%):  |   |                     |        |        |  |   |  |  |  |  |
| Replacement on-site for Tree-for-Tree basis (Removed, Condition Rating < 50%):  |   |                     |        |        |  |   |  |  |  |  |
| 46 inches replaced  |   |                     |        |        |  |   |  |  |  |  |
| 8 trees   |   |                     |        |        |  |   |  |  |  |  |
| Palm Replacement Calculations **  |   |                     |        |        |  |   |  |  |  |  |
| New Palms   |   |                     |        |        |  |   |  |  |  |  |
| 0   |   |                     |        |        |  |   |  |  |  |  |
| Replacement for Palms (Removed, Condition Rating < 50%):  |   |                     |        |        |  |   |  |  |  |  |
| Replacement for Palm-for-Palm basis:  |   |                     |        |        |  |   |  |  |  | N/A  |
| N/A   |   |                     |        |        |  |   |  |  |  |  |
| Requirements of Vegetation Removal (Sec. 4.6.19 (E)(5))   |   |                     |        |        |  |   |  |  |  |  |
| * TREE  |   |                     |        |        |  |   |  |  |  |  |
| *Staff recommends at least 4" CAL trees for mitigation as required.   |   |                     |        |        |  |   |  |  |  |  |
| Trees with condition rating of < 50%: Total DBHs of trees shall be replaced with equivalent # of CAL inches of replacement trees.   |   |                     |        |        |  |   |  |  |  |  |
| Trees with condition rating of < 50%: Required to be mitigated on a tree-for-tree basis (16" OH X 6" ST X 8" CT X 7" SH for others & 12" OH for SF & Duplex)  |   |                     |        |        |  |   |  |  |  |  |
| ** Palm   |   |                     |        |        |  |   |  |  |  |  |
| Palms with condition rating of < 50%: Replaced with one palm of equal overall heights (OH) or 16 ft OH, whichever is greater  |   |                     |        |        |  |   |  |  |  |  |
| Palms with condition rating of < 50%: Required to be mitigated on a palm-for-palm basis (16" OH X 6" CT for others & 12" OH X 6" CT for SF & Duplex)  |   |                     |        |        |  |   |  |  |  |  |
| In Lieu Fee for TREE (Sec. 4.6.19 (E)(5)(d))  |   |                     |        |        |  |   |  |  |  |  |
| DBH 0 to 8"   |   |                     |        |        |  |   |  |  |  | \$450  |
| DBH 9" to 12"   |   |                     |        |        |  |   |  |  |  | \$650  |
| DBH 13" to 18"  |   |                     |        |        |  |   |  |  |  | \$850  |
| DBH 19" and greater   |   |                     |        |        |  |   |  |  |  | \$1,000  |
| Example: In-lieu-fee for a 21" DBH tree: (\$450 × 8") + (\$650 × 4") + (\$850 × 6") + (\$1,000 × 3") = \$3,600 + \$2,600 + \$5,100 + \$3,000 = \$14,300   |   |                     |        |        |  |   |  |  |  |  |
| For trees with a condition rating of between 25 percent and 50 percent, the in-lieu fee shall be calculated at 50 percent of the above escalating scale.  |   |                     |        |        |  |   |  |  |  |  |
| Trees and palms with a condition < 50 % are exempt from DBH/caliper inch-for-inch replacement, but are required to be mitigated on a tree-for-tree or palm-for-palm basis. (for replacement on-site only) |   |                     |        |        |  |   |  |  |  |  |
| ***In-lieu-fee for a palm: \$75 per one foot grey trunk or clear trunk  |   |                     |        |        |  |   |  |  |  |  |
| For theremainder trees with a condition rating of between 51 percent and greater  |   |                     |        |        |  |   |  |  |  |  |
| TREE #  | IN-LIEU FEE CALCULATIONS FOR REMAINDER MITIGATION NOT PROVIDED FOR ON-SITE : *  |                     |        |        |  |   |  |  |  |  |
| 9   | In-lieu-fee for a 15" DBH NOT MET ON-SITE: (\$450 × 8") + (\$650 × 4") + (\$850 × 3") = \$3,600 + \$2,600 + \$2,550 = \$8,750 |                     |        |        |  |   |  |  |  | \$ 8,750.00  |
| 13  | In-lieu-fee for a 12" DBH NOT MET ON-SITE: (\$450 × 8") + (\$650 × 4") + (\$850 × 2") = \$3,600 + \$2,600 + \$1,700 = \$7,900 |                     |        |        |  |   |  |  |  | \$ 6,200.00  |
| 14  | In-lieu-fee for a 16" DBH NOT MET ON-SITE: (\$450 × 8") + (\$650 × 4") + (\$850 × 4") = \$3,600 + \$2,600 + \$3,400 = \$9,600 |                     |        |        |  |   |  |  |  | \$ 9,600.00  |
| 18  | In-lieu-fee for a 15" DBH NOT MET ON-SITE: (\$450 × 8") + (\$650 × 4") + (\$850 × 3") = \$3,600 + \$2,600 + \$2,550 = \$8,750 |                     |        |        |  |   |  |  |  | \$ 8,750.00  |
| SUB TOTAL TREES   |   |                     |        |        |  |   |  |  |  | \$ 33,300.00   |
| PALM #  | IN-LIEU FEE CALCULATIONS FOR REMAINDER MITIGATION NOT PROVIDED FOR ON-SITE : **   |                     |        |        |  |   |  |  |  |  |
| 1   | In-lieu-fee for 16" c.t. palm: 16" x \$75 = \$1,200   |                     |        |        |  |   |  |  |  | \$ 1,200.00  |
| 2   | In-lieu-fee for 16" c.t. palm: 16" x \$75 = \$1,200   |                     |        |        |  |   |  |  |  | \$ 1,200.00  |
| 21a   | In-lieu-fee for 16" c.t. palm: 16" x \$75 = \$1,200   |                     |        |        |  |   |  |  |  | \$ 1,200.00  |
| 23  | In-lieu-fee for 19" c.t. palm: 19" x \$75 = \$1,425   |                     |        |        |  |   |  |  |  | \$ 1,425.00  |
| 24  | In-lieu-fee for 22" c.t. palm: 22" x \$75 = \$1,650   |                     |        |        |  |   |  |  |  | \$ 1,650.00  |
| 25  | In-lieu-fee for 21" c.t. palm: 21" x \$75 = \$1,500   |                     |        |        |  |   |  |  |  | \$ 1,500.00  |
| SUB TOTAL PALMS   |   |                     |        |        |  |   |  |  |  | \$ 8,175.00  |
| In-lieu-fee, \$41,475 (4 trees for 58 DBH inches and 6 palms with 124 ft ht) shall be paid prior to permit approval.  |   |                     |        |        |  |   |  |  |  | \$ 41,475.00   |



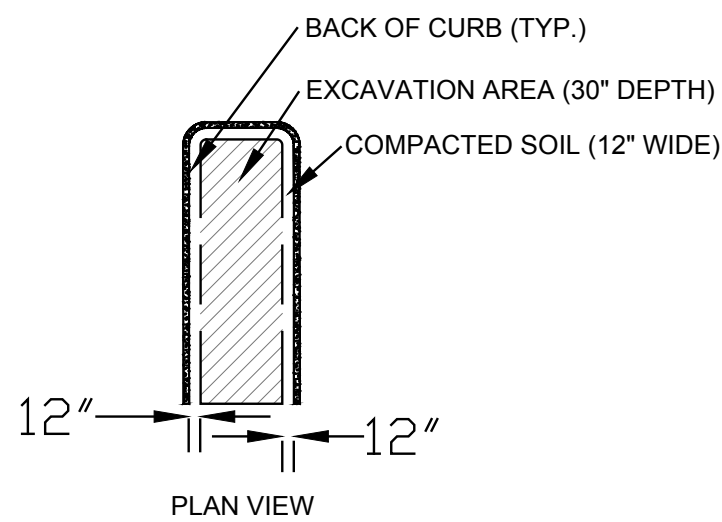
**CIVIC SPACE - DETAIL CS: 5**

**CIVIC CENTER IN CBD DISTRICT**

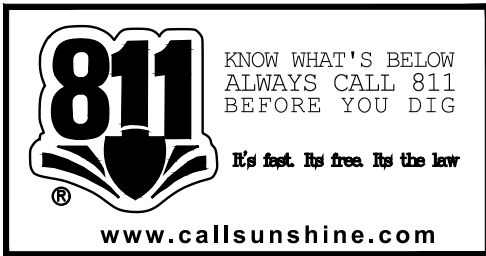
CIVIC OPEN SPACE  
LDR Sec. 4.4.13 (E)(4)(e)

(no waiver required per city)

The diagram shows a plan view of a building footprint with a 30-foot setback line. A 30-foot wide area is highlighted in purple, indicating the required civic open space. A red dashed line runs parallel to the setback line. A north arrow is present. The text 'GENERAL EASEMENT' is visible on the left side of the diagram.



PER SECTION 4.6.16 (H) (3) (n)  
EXISTING NATIVE SOIL WITHIN ALL LANDSCAPE AREAS ADJACENT TO  
VUA SHALL BE EXCAVATED DOWN TO DEPTH OF 30" BELOW EX GRADE,  
EXCEPT FOR A 12" BUFFER FROM INSIDE OF CURB OR PAVEMENT.



**LBLA, Inc.**  
**Landscape Architecture**

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 LbenderLarch@gmail.com  
 FL-LA6666715

PROJECT ARCHITECTS :  
**ZYSCOVICH**  
ARCHITECTS

---

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t 407.674.1959

e [info@zyscovich.com](mailto:info@zyscovich.com)  
w [www.zyscovich.com](http://www.zyscovich.com)

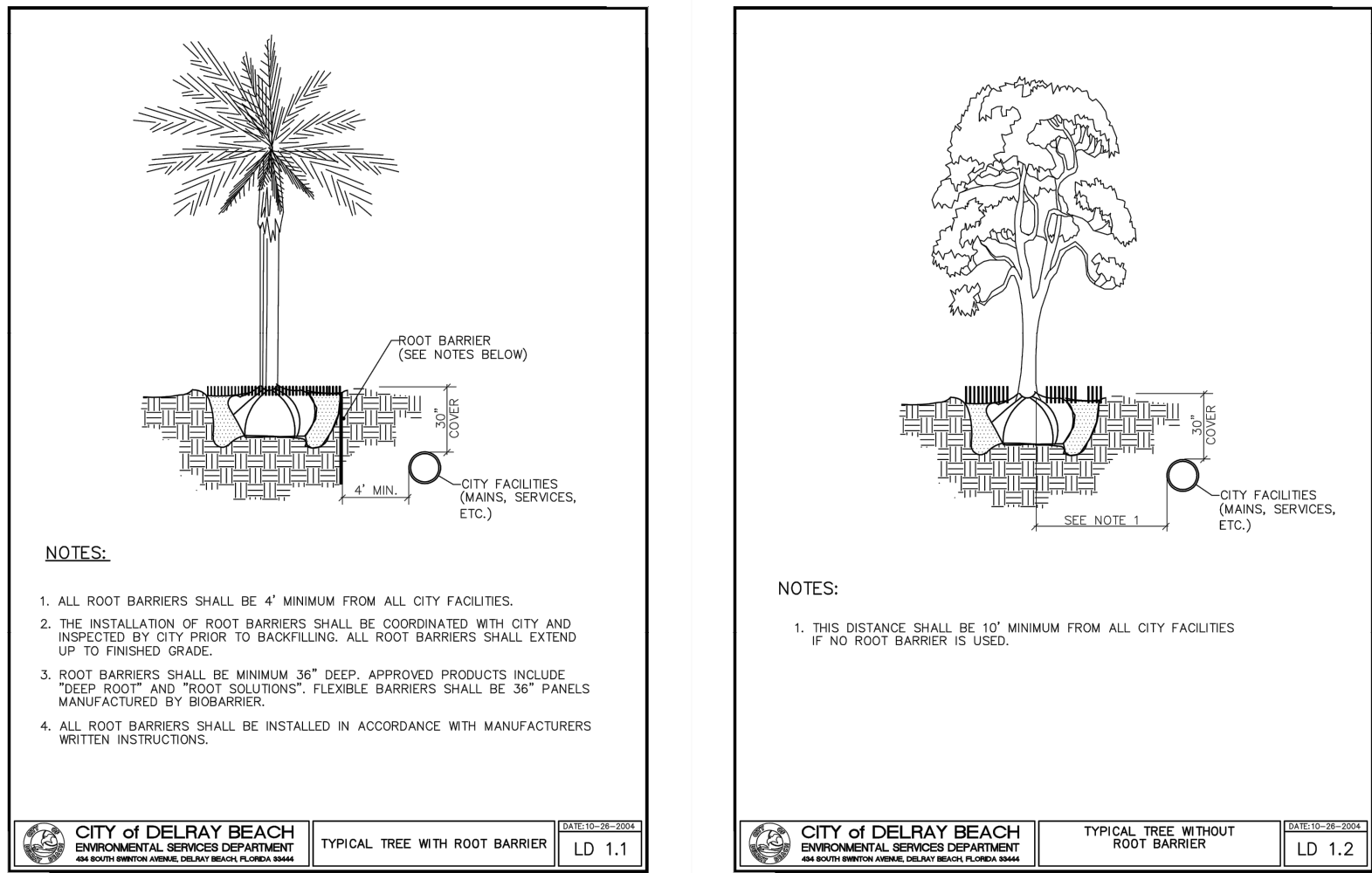
PIERRE DELRAY PHASE 2 - SPRAB SITE PLAN PACKAGE  
(aka New MXU Building)  
SW corner of Atlantic Ave. & SE 3rd Ave.  
City of Delray Beach, Florida  
PROPOSED LANDSCAPE PLAN

|                       |                              |
|-----------------------|------------------------------|
| PROJECT NO.<br>19-014 | CADD I.D.<br>ATLANTIC SITE 2 |
| DRAWN BY :            | LMB                          |
| CHECKED BY :          | LMB                          |
| SCALE :               | 1" = 20'-0"                  |
| DATE :                | JULY 29, 2021                |

LP1  
OF 2 SHEETS

[illegible]

City of Delray Beach Standard Details: LD1.1 & LD 1.2"



**NOTE:**  
Per LDR 4.6.16(D)(4)(b) "Trees shall not be planted within ten (10') feet of any underground utility. NOTE: City of Delray Beach Engineering Standards allow trees to be planted to within four (4') feet of utility lines, with proper root barriers installed. Refer to sheet LP2 for Details.

Any Trees or Shrubs placed within water, sewer or drainage easements shall conform to the City of Delray Beach  
Standard Details: LD1.1 & LD 1.2"

*All invasive exotic plants must be removed from the property.  
The site shall be maintained "exotic free" in perpetuity.*

### THE TABULAR DATA :

SITE AREA: \_\_\_\_\_ 23,771 SF (.55 AC)

ZONING: \_\_\_\_\_ CENTRAL BUSINESS DISTRICT \_\_\_\_\_ CBD

PROPOSED IMPERVIOUS: \_\_\_\_\_ (INCL PERMEABLE PAVERS) \_\_\_\_\_ 23,067.65 S.F. (97 % of Site Area)

PROPOSED OPEN SPACE: \_\_\_\_\_ GREEN AREA \_\_\_\_\_ 703.35 S.F. (3 % of Site Area)

**IRRIGATION NOTE:**  
An automatic properly functioning underground irrigation system with a rain sensing cutoff device shall be designed and installed in compliance with the SFWMD, Florida Building Code and city Building Code requirements. The rain sensing cutoff device shall be located and installed in such a manner that the building eaves, balconies and similar overhangs do not interfere with the operation of the device. The irrigation system shall be properly maintained in good working order and provide a minimum coverage of 100% with 100% overlap.

Per LDR 4.6.16(F) : Complete Irrigation Design Plans shall be provided at time of Building Permit Applications.

All newly planted trees & palms shall have bubblers.

Provide Drip Line to Planter Pots where feasible.

LANDSCAPE NOTES:

(CITY NOTES SHALL APPEAR ON ALL PLANS)

ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER.

MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS.

ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE.

ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED, TO PROVIDE COMPLETE COVERAGE TO ALL PLANT MATERIALS AND GRASS TO BE MAINTAINED..

SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO THE PROPERTY LINE.

REINFORCED CONCRETE CURBING AT LEAST SIX (6) INCHES IN HEIGHT SHALL BE PROVIDED AROUND ALL LANDSCAPE ISLANDS AND AS A SEPARATOR BETWEEN ALL LANDSCAPED AREAS THAT ARE ADJACENT TO VEHICULAR USE AREAS UNLESS SUCH CURBING WILL INTERFERE WITH THE DRAINAGE.

THREE (3) PALMS ARE EQUIVALENT TO ONE (1) SHADE TREE.

SHRUBS ARE REQUIRED ALONG FOUNDATION VISIBLE TO STREET (where applicable) PLUS ALL EQUIPMENT, A/C, P/E, ETC. SHALL BE SCREENED FROM VIEW.

# 1 PROPOSED LANDSCAPE PLAN

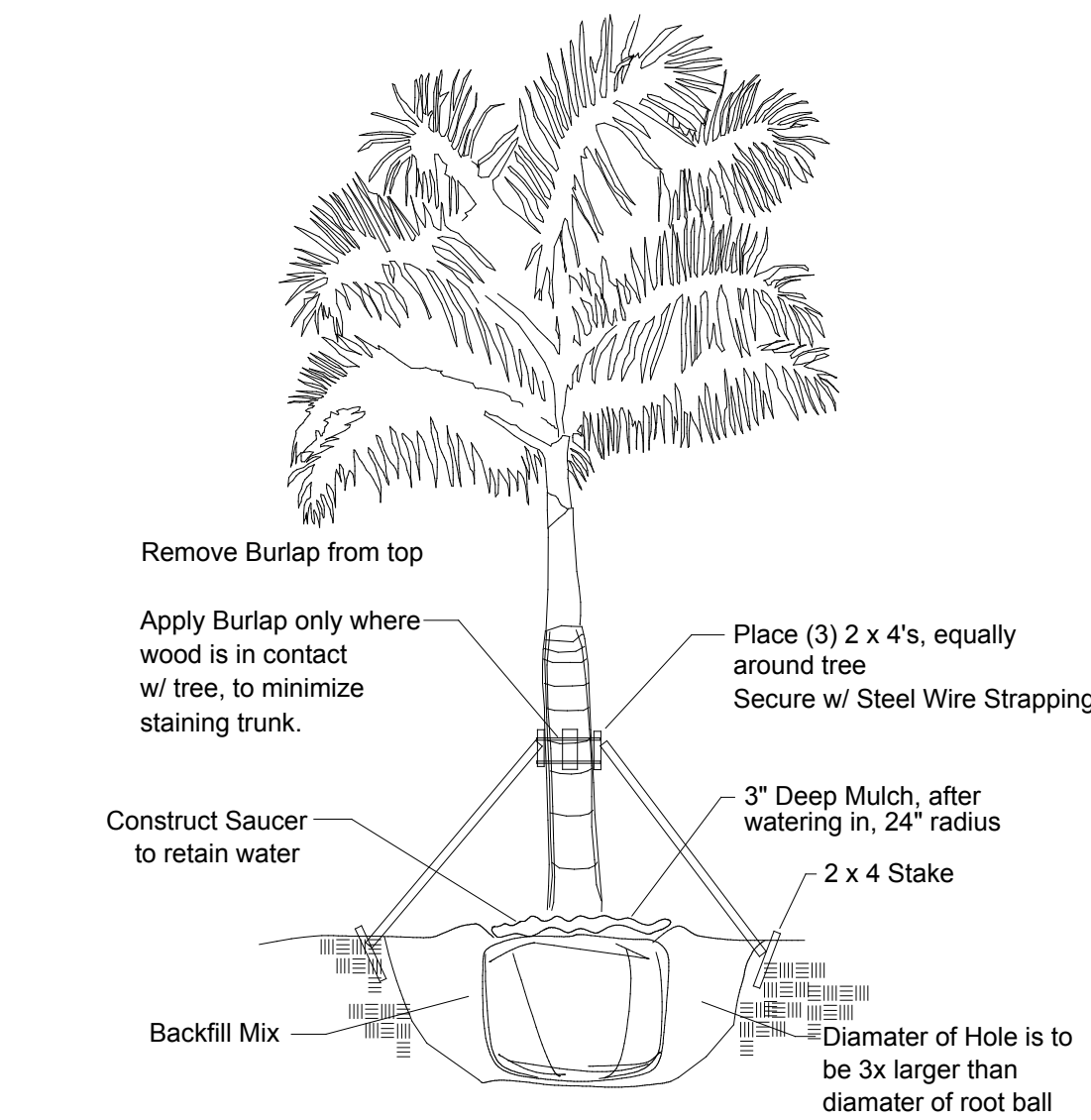
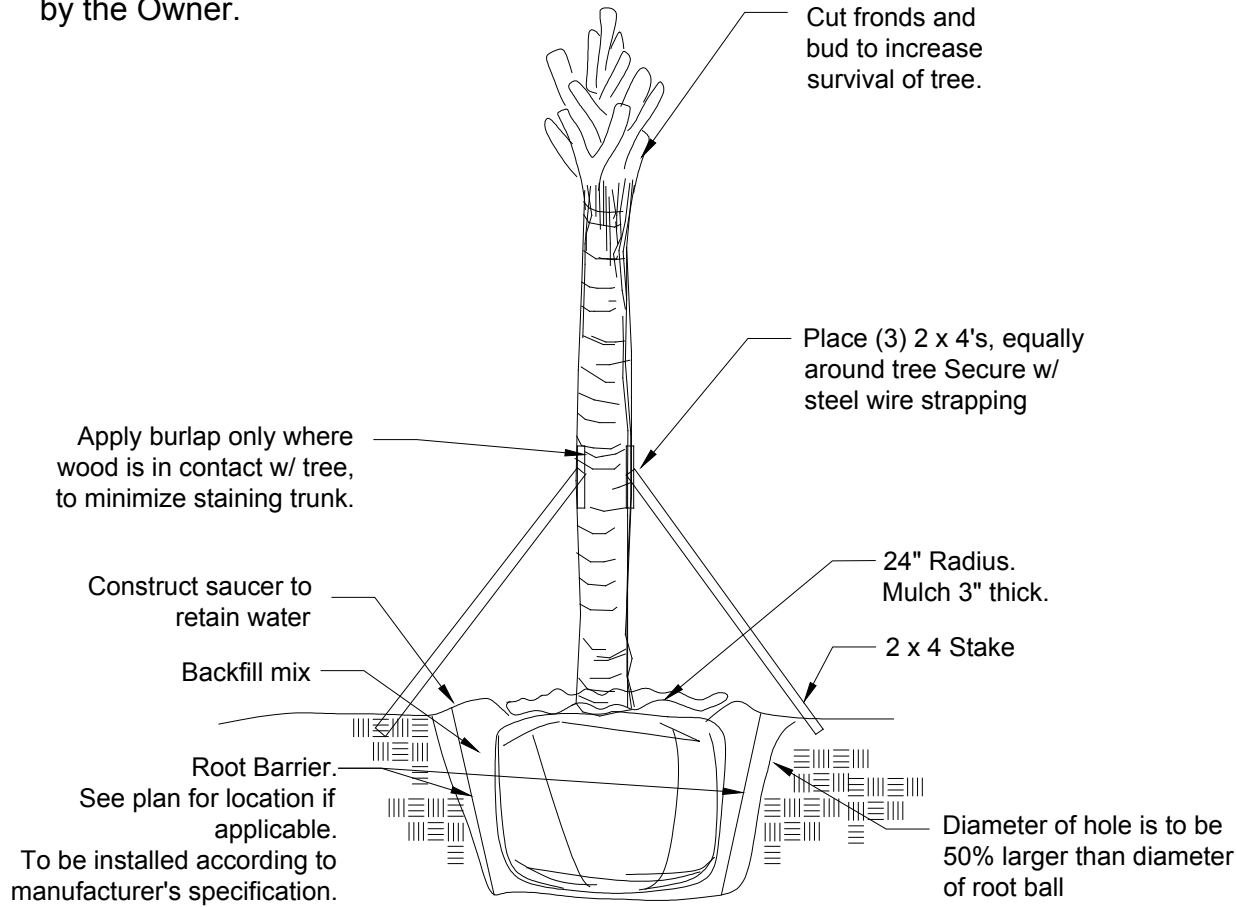
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## Palm Planting Detail

Tree Stakes are to be removed between 6-12 months by the Owner.

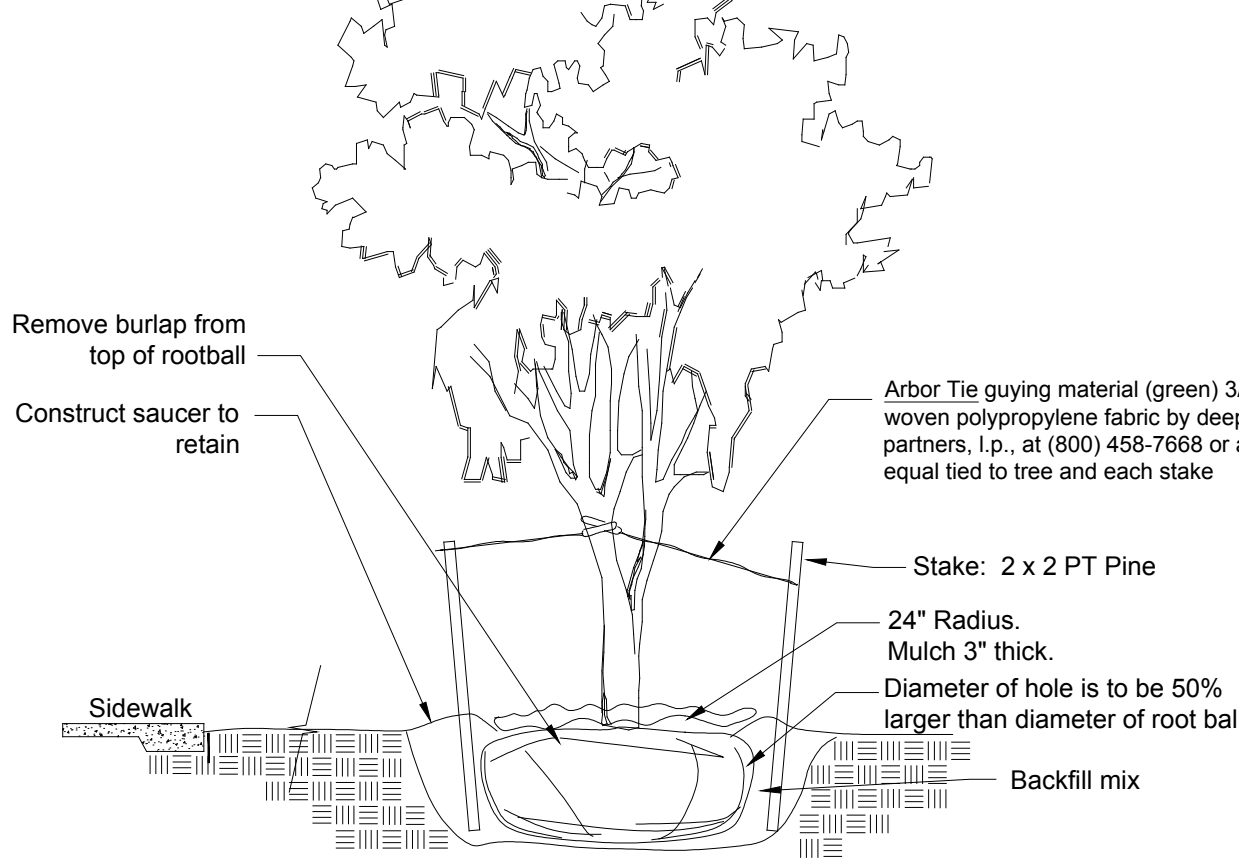
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## Tree Planting Detail

Tree Stakes are to be removed between 6-12 months by the Owner.

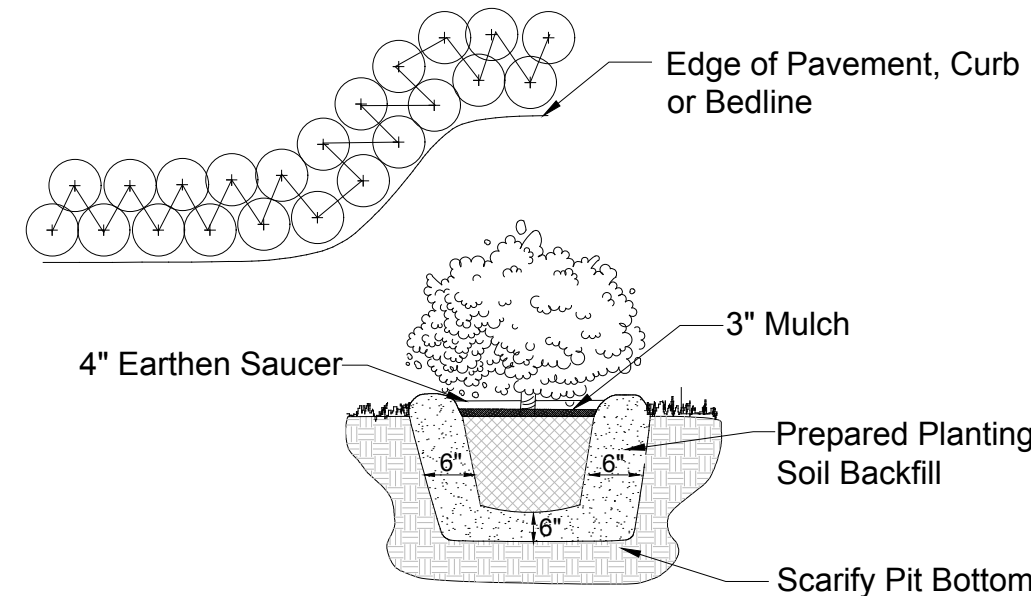
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## Shrub & Groundcover Planting Detail

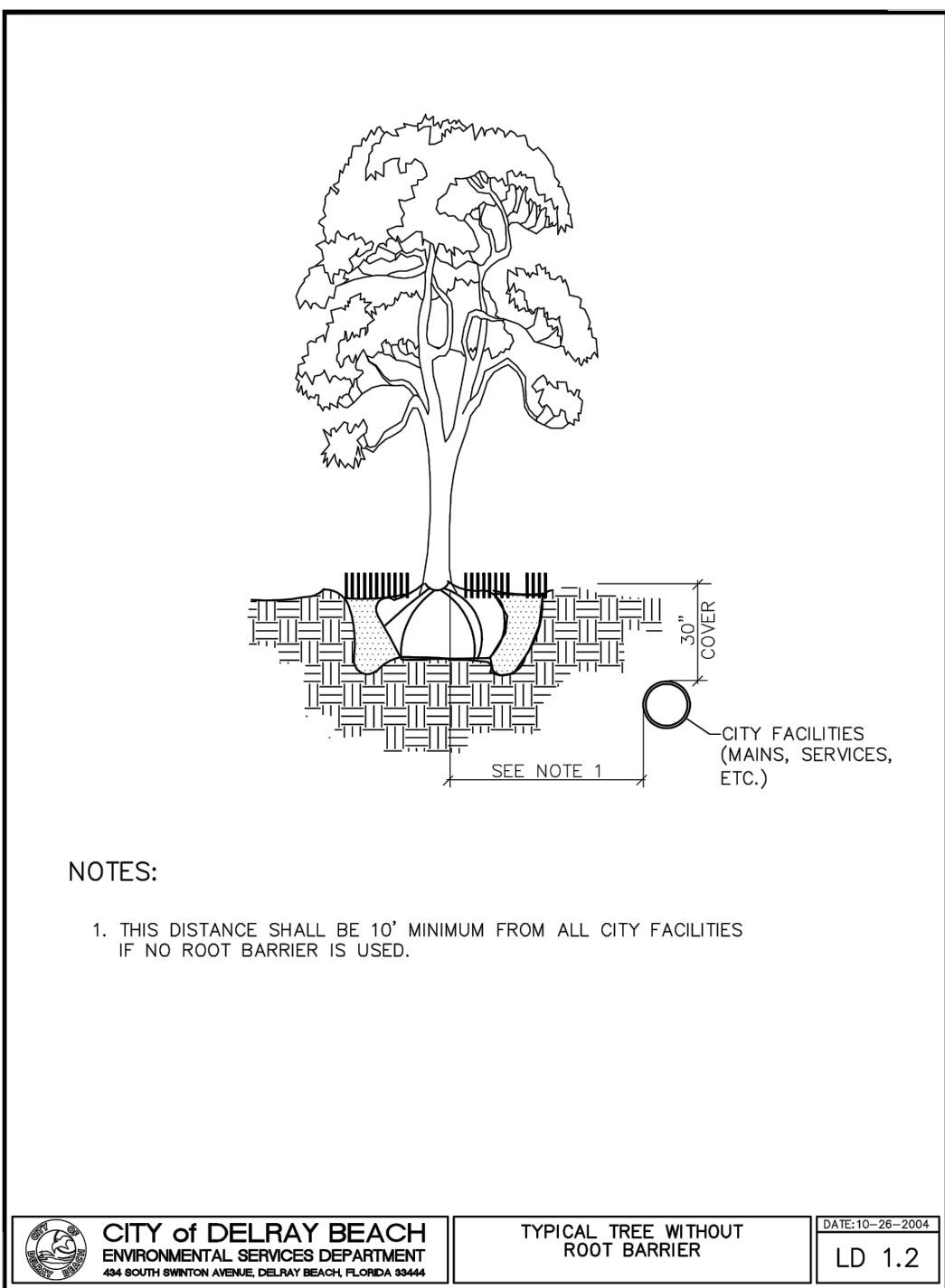
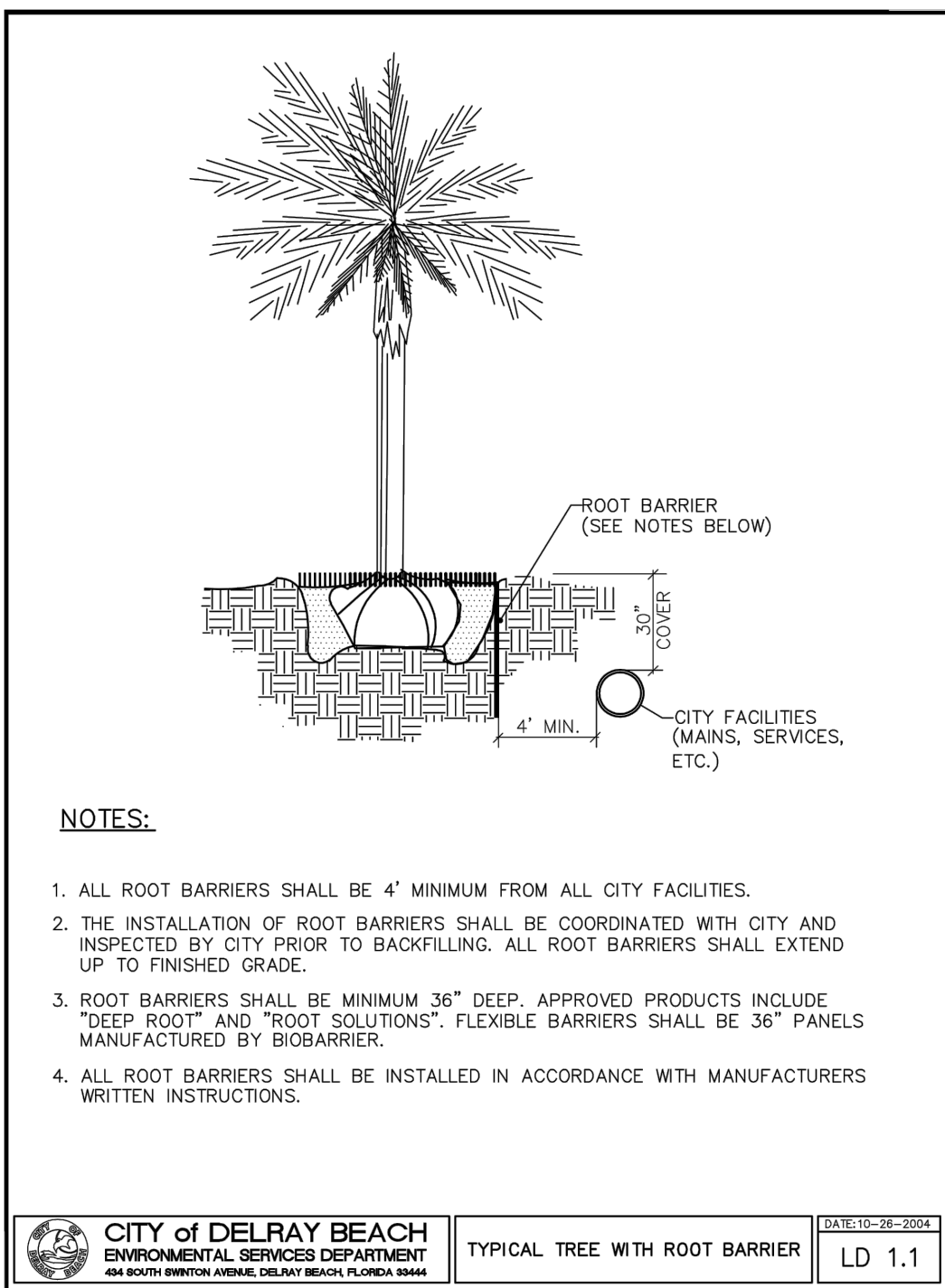
Note: All Shrubs And Groundcover Shall Be Triangular Spaced Along Straight Edges And Will Be Planted In Parallel Rows Along Curved Edges.

NTS



## City of Delray Beach Standard Details: LD1.1 & LD 1.2"

NTS



LANDSCAPE NOTES: (CITY NOTES SHALL APPEAR ON ALL PLANS)

ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER.

MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS.

ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE.

ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED, TO PROVIDE COMPLETE COVERAGE TO ALL PLANT MATERIALS AND GRASS TO BE MAINTAINED..

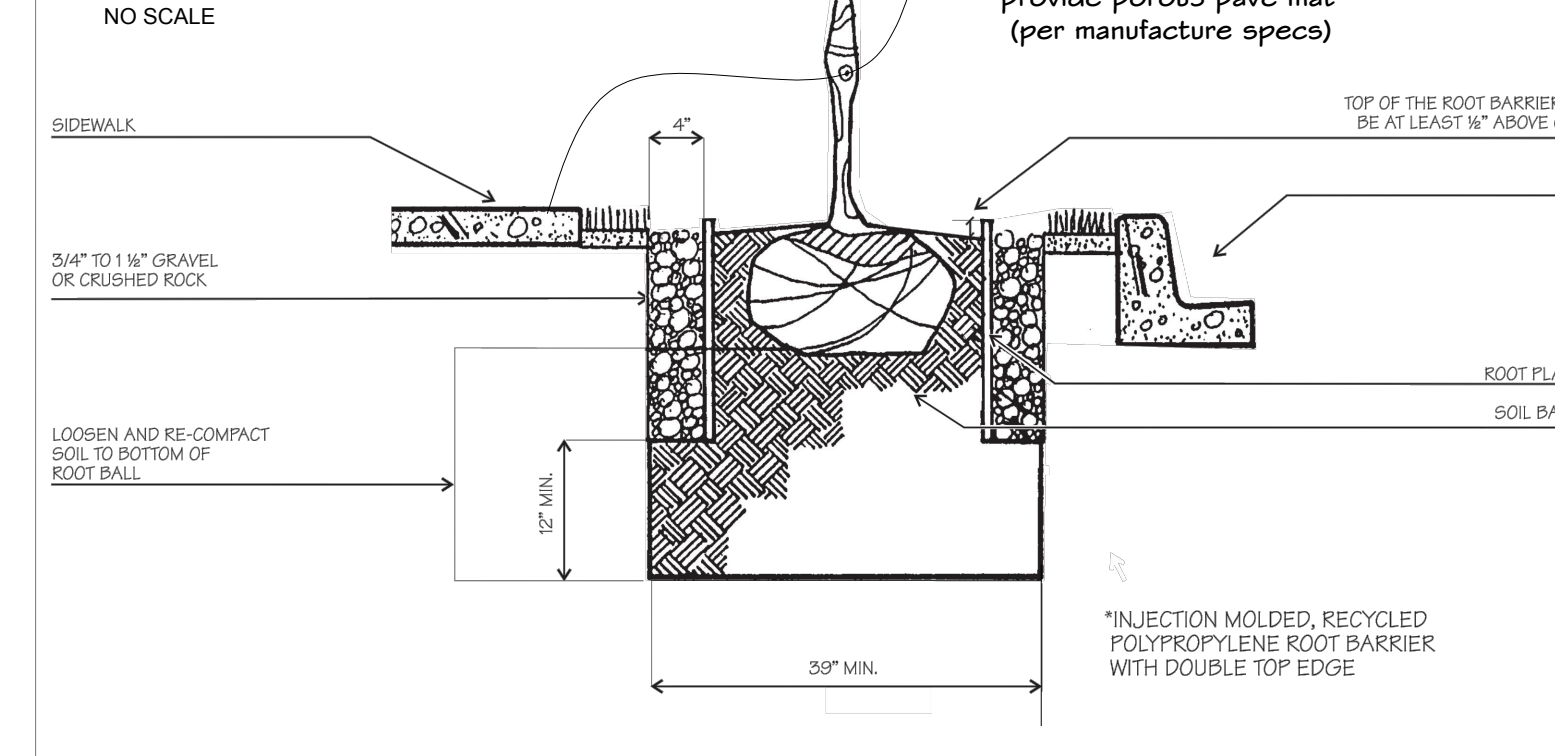
SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO THE PROPERTY LINE.

REINFORCED CONCRETE CURBING AT LEAST SIX (6) INCHES IN HEIGHT SHALL BE PROVIDED AROUND ALL LANDSCAPE ISLANDS AND AS A SEPARATOR BETWEEN ALL LANDSCAPED AREAS THAT ARE ADJACENT TO VEHICULAR USE AREAS UNLESS SUCH CURBING WILL INTERFERE WITH THE DRAINAGE.

THREE (3) PALMS ARE EQUIVALENT TO ONE (1) SHADE TREE.

SHRUBS ARE REQUIRED ALONG FOUNDATION VISIBLE TO STREET (where applicable) PLUS ALL EQUIPMENT, A/C, P/E, ETC. SHALL BE SCREENED FROM VIEW.

### ROOT BARRIER DETAIL

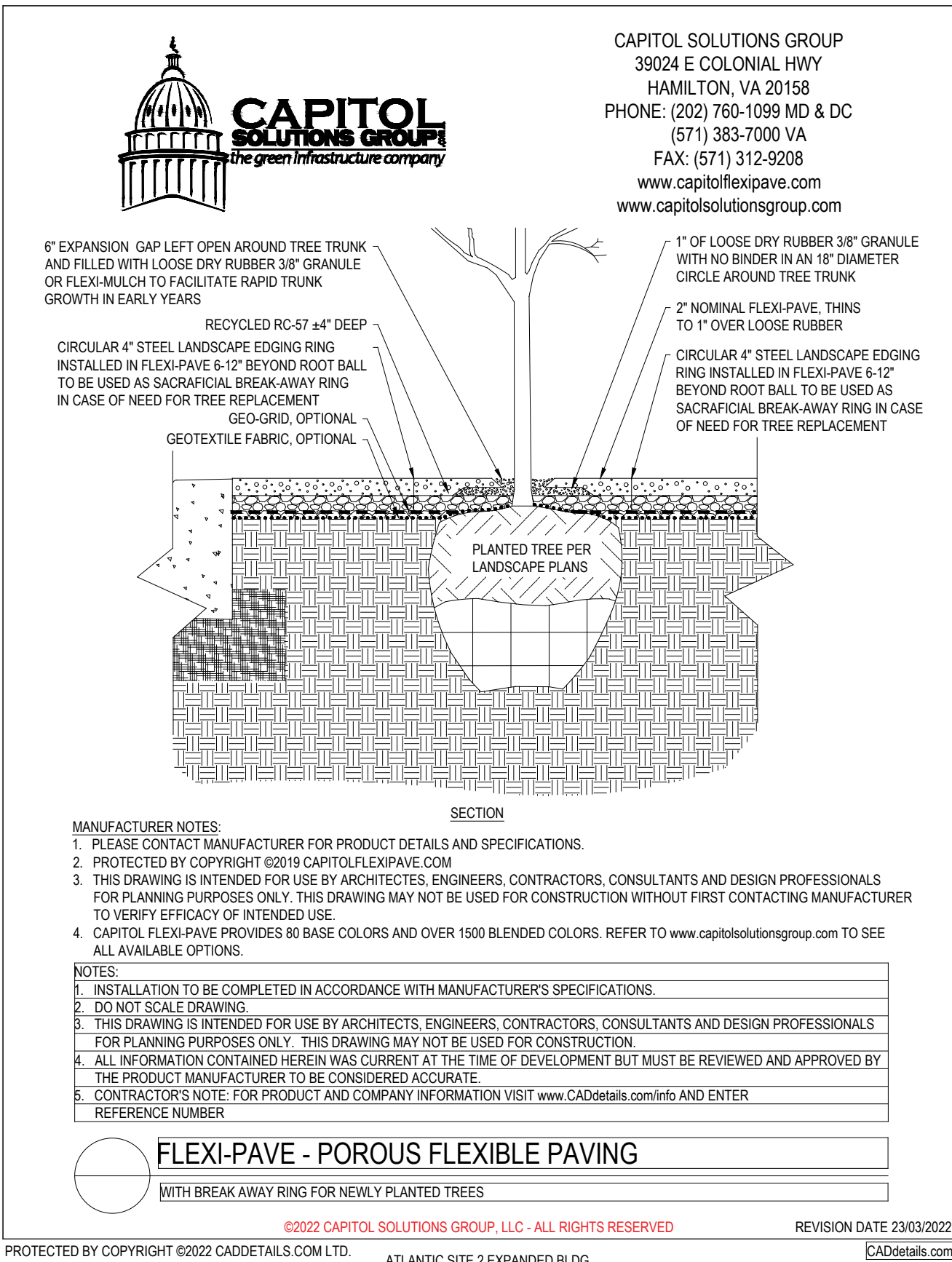


- All Plants shall be Florida No.1 or better
- Contractor Shall be familiar w/ the Landscape code and shall comply with all of its applicable requirements.
- Contractor shall verify all quantities indicated at time of bid.
- Contractor shall provide unit prices at time of bid.
- All contractors working on the project shall be licensed and fully insured as required.
- Tree and palm staking shall be removed between 6 and 12 months after planting.

### STRUCTURAL SOILS

The use of structural soil is required in paved sites to provide adequate soil volumes do for the tree roots under pavement. This is to be provided at a minimum of 8' radii off tree trunks.

### Flexi-Pave installation Detail



### IRRIGATION NOTE:

An automatic properly functioning underground irrigation system with a rain sensing cutoff device shall be designed and installed in compliance with the SFWMD, Florida Building Code and city Building Code requirements. The rain sensing cutoff device shall be located and installed in such a manner that the building eaves, balconies and similar overhangs do not interfere with the operation of the device. The irrigation system shall be properly maintained in good working order and provide a minimum coverage of 100% with 100% overlap.

Per LDR 4.6.16(F) : Complete Irrigation Design Plans shall be provided at time of Building Permit Applications.

All invasive exotic plants must be removed from the property. The site shall be maintained "exotic free" in perpetuity.



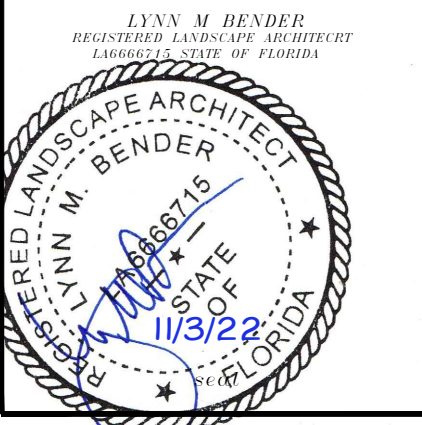
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| REVISION | DATE  |
|----------|---|
| 1        | TAC staff comments 3/30/22                        |
| 2        | TAC staff comments 6/30/22                        |
| 3        | TAC staff comments (no changes the sheet) 7/25/22 |
| 4        | TAC staff comments (no changes the sheet) 11/3/22 |

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PIERRE DELRAY PHASE 2 - SPRAB SITE PLAN PACKAGE  
(aka New MXU Building)  
SW corner of Atlantic Ave. & SE 3rd Ave.  
City of Delray Beach, Florida  
**LANDSCAPE DETAILS & SPECIFICATIONS**



|                       |                              |
|-----------------------|------------------------------|
| PROJECT NO.<br>19-014 | CADD I.D.<br>ATLANTIC SITE 2 |
| DRAWN BY :<br>LMB     | CHECKED BY :<br>LMB          |
| SCALE :<br>DATE :     | 1" = 20'-0"<br>JULY 29, 2021 |
| SHEET :               | LP2                          |
|                       | OF 2 SHEETS                  |





| REVISION | DATE                                       |
|----------|--|
| 1        | TAC REV 4 COMMENTS (LP modified per civil) |
|          | 10/24/22                                   |
|          |  |
|          |  |
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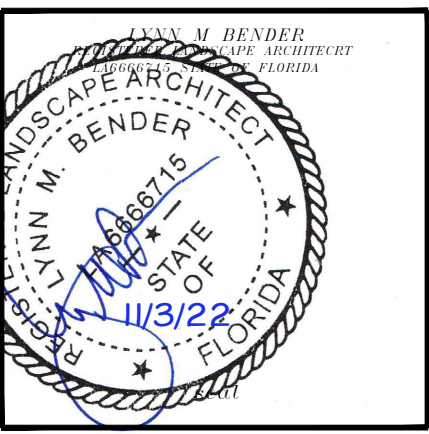
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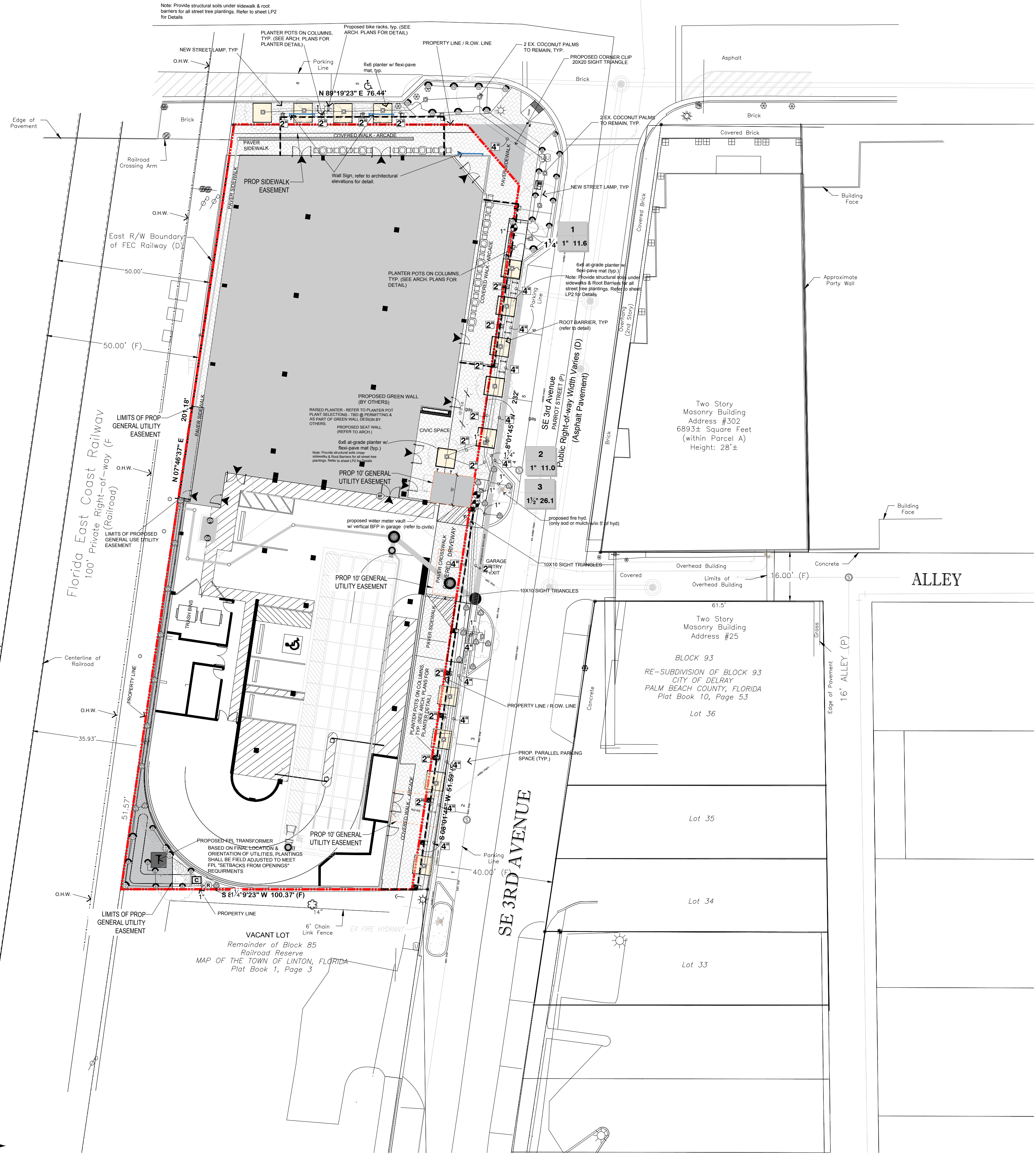
PIERRE DELRAY PHASE 2 - SPRAB SITE PLAN PACKAGE  
(aka New MXU Building)  
SW corner of Atlantic Ave. & SE 3rd Ave.  
City of Delray Beach, Florida

PROPOSED IRRIGATION PLAN
















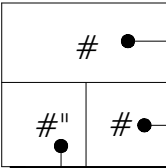
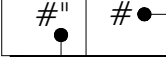
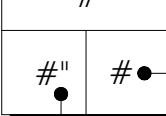


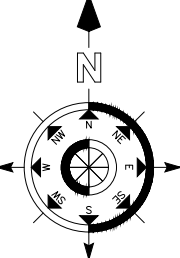
|                     |                           |
|---------------------|---------------------------|
| PROJECT NO. 19-014  | CADD I.D. ATLANTIC SITE 2 |
| DRAWN BY: JA        |                           |
| CHECKED BY: LMB     |                           |
| SCALE: 1" = 20'-0"  |                           |
| DATE: JULY 01, 2022 |                           |
| SHEET: IR-1         |                           |
| 1 OF 2 SHEETS       |                           |

STATE ROAD 806  
66' Public Right-of-way (P)  
**EAST ATLANTIC AVENUE**

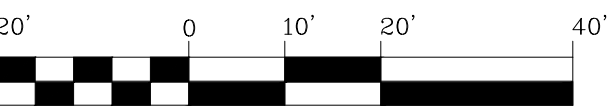


**IRRIGATION SCHEDULE**

| <u>SYMBOL</u>   | <u>MANUFACTURER/MODEL</u>     | <u>QTY</u>   | <u>ARC</u> | <u>PSI</u> | <u>RADIUS</u> |
|---|-------------------------------|--------------|------------|------------|---------------|
|    | Hunter PROS-12 5` strip spray | 4            | LCS        | 30         | 5'x15'        |
|    | Hunter PROS-12 5` strip spray | 6            | RCS        | 30         | 5'x15'        |
|    | Hunter PROS-12 5` strip spray | 12           | SST        | 30         | 5'x30'        |
|    | Hunter PROS-12 8` radius      | 15           | 180        | 30         | 8'            |
|    | Hunter PROS-12 8` radius      | 3            | 90         | 30         | 8'            |
|    | Hunter PROS-12 10` radius     | 8            | 180        | 30         | 10'           |
|    | Hunter PROS-12 10` radius     | 2            | 90         | 30         | 10'           |
|    | Hunter PROS-12 12` radius     | 4            | 90         | 30         | 12'           |
|    | Hunter PCB 50                 | 22           | 360        | 30         | 3'            |
| <u>SYMBOL</u>   | <u>MANUFACTURER/MODEL</u>     | <u>QTY</u>   |            |            |               |
|    | Hunter PGV-101G 1"            | 2            |            |            |               |
|    | Hunter PGV-151 Globe 1-1/2"   | 1            |            |            |               |
|    | Febco 765 2"                  | 1            |            |            |               |
|    | Hunter PC-400                 | 1            |            |            |               |
|    | Hunter RAIN-CLIK              | 1            |            |            |               |
|    | Water Meter 3"                | 1            |            |            |               |
| Irrigation Lateral Line: PVC Class 200 SDR 21 1"                                      |                               | 810.2 l.f.   |            |            |               |
| Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"                                  |                               | 219.7 l.f.   |            |            |               |
| Irrigation Mainline: PVC Class 200 SDR 21 1 1/4"                                      |                               | 83.0 l.f.    |            |            |               |
| Pipe Sleeve: PVC Schedule 40 2"   |                               | 135.7 l.f.   |            |            |               |
| Pipe Sleeve: PVC Schedule 40 4"   |                               | 132.7 l.f.   |            |            |               |
| Valve Callout   |                               |              |            |            |               |
|  |                               | Valve Number |            |            |               |
|  |                               | Valve Flow   |            |            |               |
|  |                               | Valve Size   |            |            |               |



Scale in Feet  
1" = 20' - 0"

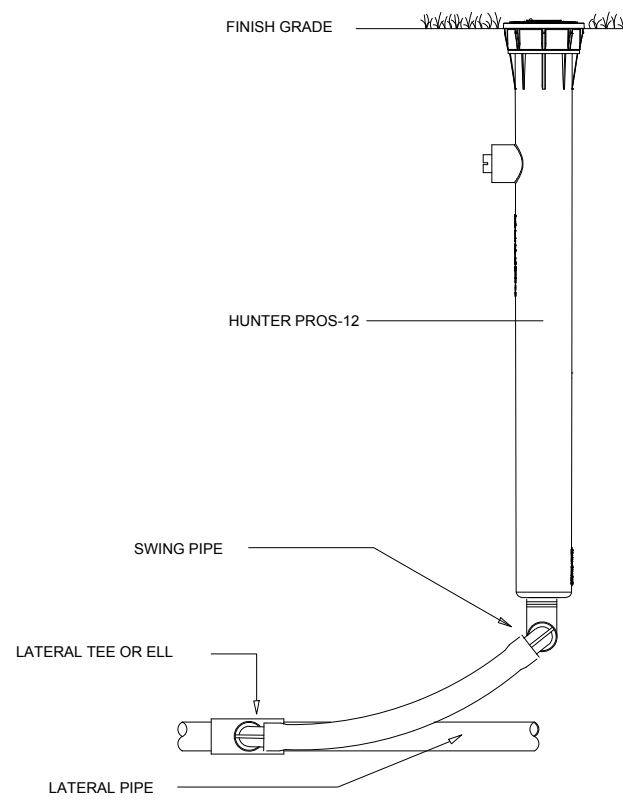


**PROPOSED IRRIGATION PLAN**

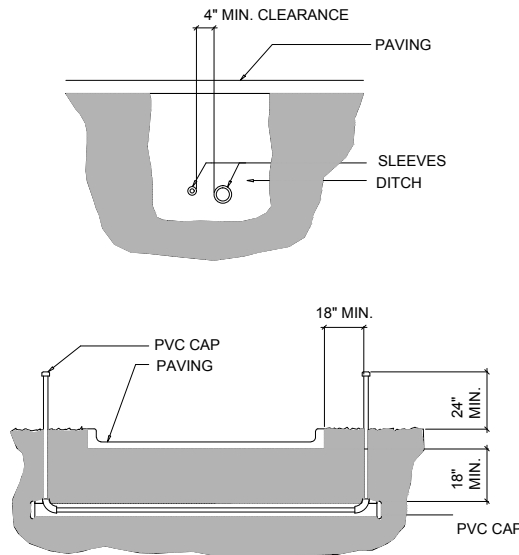
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The site shall be maintained "exotic free" in perpetuity.

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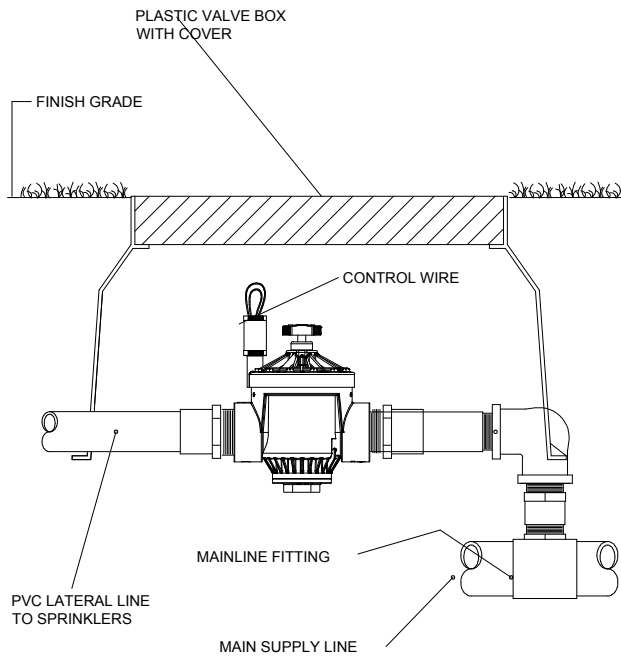




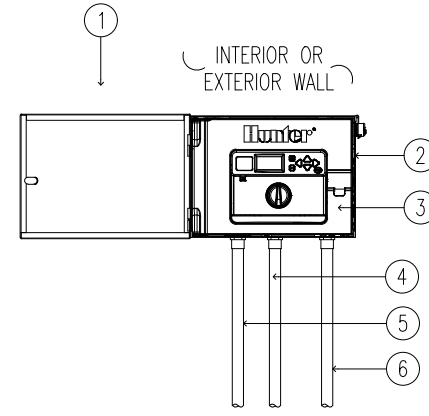
POP-UP SPRAY SPRINKLER



IRRIGATION SLEEVING

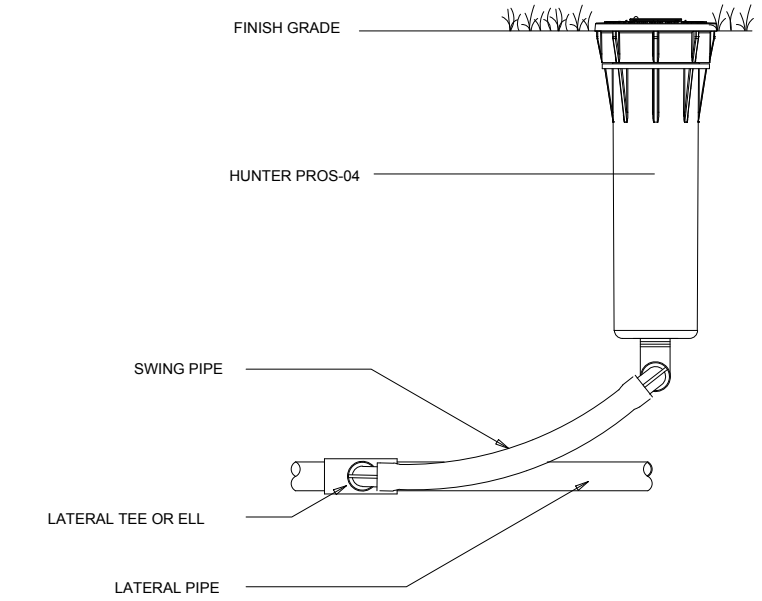


REMOTE CONTROL VALVE

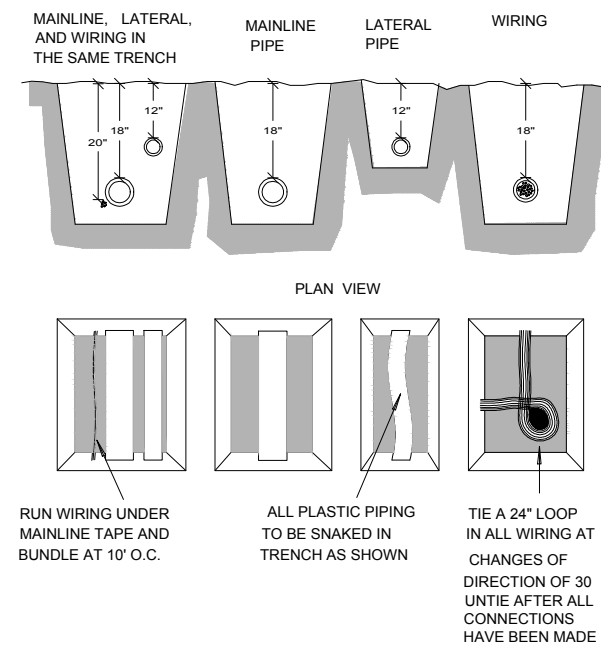


HUNTER PRO-C CONTROLLER

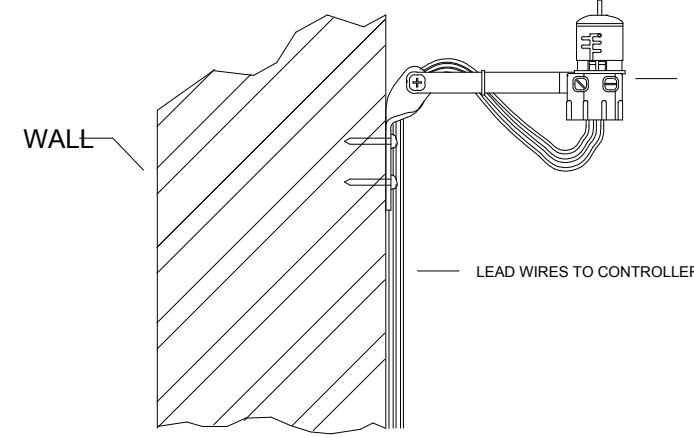
- 1 MINIMUM CLEARANCE FOR DOOR OPENING
- 2 HUNTER PGV-105
- 3 DUAL 4MM DECODER OUTPUT MODULE ADDED TO CONTROLLER
- 4 JACKETED ID WIRE IN ELECTRICAL CONDUIT. SIZE AND TYPE PER LOCAL CODE
- 5 1/2\"/>
- 6 CONDUIT FOR GROUND WIRE. GROUNDING HARDWARE TO BE LOCATED MINIMUM OF 8\"/>



POP-UP SPRAY SPRINKLER



PIPE AND WIRE TRENCH



HUNTER RAIN-CLIK RAIN SENSOR

## IRRIGATION SPECIFICATIONS

1. IRRIGATION POINT OF CONNECTION SHALL BE CAPABLE OF DELIVERING A VARIABLE FLOW RATE OF 30 GPM AT A CONSTANT PRESSURE OF 50 PSI DOWNSTREAM OF BACKFLOW PREVENTION DEVICE. POINT OF CONNECTION SHALL BE ABLE TO MAINTAIN THE MAXIMUM FLOW RATE AND PRESSURE FOR THE DURATION OF AN IRRIGATION CYCLE. CONTRACTOR SHALL VERIFY THESE PARAMETERS PRIOR TO CONSTRUCTION, AND NOTIFY OWNER'S REPRESENTATIVE AND IRRIGATION CONSULTANT IF THEY CANNOT BE MET.
2. IF THE POINT OF CONNECTION EXCEEDS THE ABOVE PRESSURE REQUIREMENTS, A PRESSURE REGULATOR SHALL BE INSTALLED AT THE OWNER'S EXPENSE. PRESSURE REGULATOR SHALL BE SET AT THE PRESSURE RECOMMENDED ABOVE.
3. AN PVB TYPE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED IN A MANNER SATISFYING LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
4. POWER FOR THE IRRIGATION CONTROLLER, PUMP AND OTHER ELECTRICAL COMPONENTS SHALL BE PROVIDED BY OTHER. CONTRACTOR SHALL VERIFY POWER AVAILABLE MEETS THE REQUIREMENTS OF THE COMPONENT'S MANUFACTURER. IF POWER AVAILABLE IS INADEQUATE, CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
5. IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE FOR LANDSCAPING CHANGES, PLANTING BEDS OR OTHER OBSTRUCTIONS. THESE ADJUSTMENTS MAY BE MADE ONLY AFTER NOTIFYING THE OWNER'S REPRESENTATIVE.
6. SOME IRRIGATION COMPONENTS AND PIPING ARE SHOWN IN HARDSCAPE AREAS AND OUTSIDE OF PROPERTY LINES TO IMPROVE ON THE READABILITY OF THE IRRIGATION PLAN. ALL COMPONENTS AND PIPING SHALL BE INSTALLED INSIDE OF THE PROPERTY LINES AND OUTSIDE OF HARDSCAPE AREAS.
7. MAINLINE, LATERALS AND CONTROL WIRES SHALL BE INSTALLED INSIDE THE SAME TRENCH WHENEVER POSSIBLE..
8. SYSTEM TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
9. CONTROLLER SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.
10. ALL WIRE SHALL BE #18 DIRECT BURIAL U.F. MULTI-CABLE.
11. ALL FIELD WIRE ABOVE GRADE OR WITHIN STRUCTURE TO BE INSTALLED IN CONDUIT PER LOCAL CODE.
12. ALL UNDERGROUND SPLICES TO UTILIZE 3M DBY, OR KING WATER PROOF SPLICE KITS, DEPENDING ON NUMBER AND SIZE OF WIRES. ALL SPLICES SHALL BE MADE INSIDE A VALVE BOX.
13. DEPTH OF IRRIGATION PIPING; 18" ON MAINLINE; 12" ON LATERALS.
14. SLEEVING UNDER PAVED AREAS SHALL BE INSTALLED AT A DEPTH OF 24".

## CRITICAL ANALYSIS

P.O.C. NUMBER: 01

Water Source Information:

FLOW AVAILABLE  
Water Meter Size: 3"  
Flow Available 225 GPM

PRESSURE AVAILABLE  
Static Pressure at POC: 50.00 PSI  
Elevation Change: 5.00 ft  
Service Line Size: 4"  
Length of Service Line: 20 ft  
Pressure Available: 47.00 psi

DESIGN ANALYSIS

Maximum Station Flow: 26.06 GPM  
Flow Available at POC: 225 GPM  
Residual Flow Available: 198.94 GPM

Pressure Req. at Critical Station: 38.04 PSI  
Loss for Fittings: 0.2 PSI  
Loss for Main Line: 2.03 PSI  
Loss for POC to Valve Elevation: 0 PSI  
Loss for Backflow: 3.3 PSI  
Loss for Water Meter: 1 PSI  
Critical Station Pressure at POC: 44.57 PSI  
Pressure Available: 47 PSI  
Residual Pressure Available: 2.43 PSI

## VALVE SCHEDULE

| NUMBER | MODEL                | SIZE   | TYPE        | GPM   | PIPE  | DESIGN PSI | FRICTION LOSS | VALVE LOSS | PSI   | PSI @ POC | PRECIP    |
|--------|----------------------|--------|-------------|-------|-------|------------|---------------|------------|-------|-----------|-----------|
| 1      | Hunter PGV-101G      | 1"     | Shrub Spray | 11.64 | 182.7 | 30         | 0.46          | 1.8        | 32.26 | 36.53     | 1.33 in/h |
| 2      | Hunter PGV-101G      | 1"     | Bubbler     | 11.00 | 369.9 | 30         | 0.54          | 1.84       | 32.38 | 37.01     | 1.7 in/h  |
| 3      | Hunter PGV-151 Globe | 1-1/2" | Shrub Spray | 26.06 | 477.3 | 30         | 5.04          | 3          | 38.04 | 44.57     | 1.71 in/h |

| REVISION                                     | DATE     |
|--|----------|
| 1 TAC REV 4 COMMENTS (no changes this sheet) | 10/24/22 |
|  |          |
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|  |          |
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IRRIGATION DETAILS & SPECIFICATIONS

LYNNA M BENDER  
REGISTERED LANDSCAPE ARCHITECT  
ARLINGTON STATE OF FLORIDA

|                    |                           |
|--------------------|---------------------------|
| PROJECT NO. 19-014 | CADD I.D. ATLANTIC SITE 2 |
| DRAWN BY: JA       | CHECKED BY: LMB           |
| SCALE: 1" = 20'-0" | DATE: JULY 01, 2022       |

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