

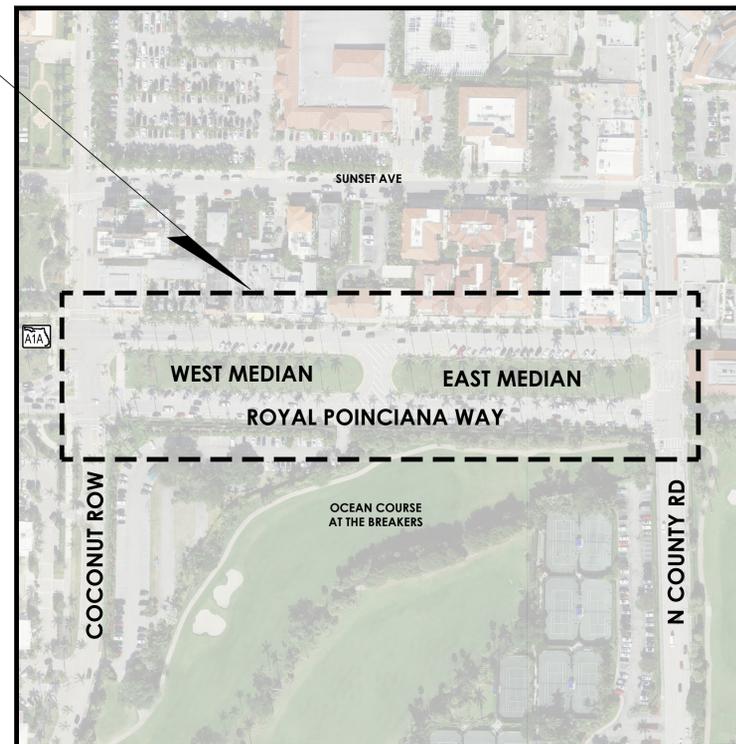
# ROYAL POINCIANA WAY PALM BEACH, FLORIDA

## 100% CONSTRUCTION DOCUMENTS / BID PLANS

### TREE DISPOSITION, LANDSCAPE, HARDSCAPE, IRRIGATION & ELECTRICAL

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#### PROJECT LOCATION



TOWN OF PALM BEACH  
360 SOUTH COUNTY ROAD  
PO BOX 2029  
Phone: 561-838-5400



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

**cma**  
chen moore and associates

500 West Cypress Creek Road,  
Suite 600  
Ft. Lauderdale, FL 33309  
954.730.0707  
www.chenmoore.com

#### AGENCY COMMISSION/COUNCIL

Danielle Moore  
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Julie Araskog  
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Bridget Moran

Council Member  
Council Member  
President Pro Tem  
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REGISTRATION  
ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
DATE: 1/23/2025



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PROJECT NUMBER  
24-0431.00060

CLIENT PROJECT NUMBER

DRAWING NUMBER  
**COVER**

1 OF 26

## GENERAL CONDITIONS: MEASUREMENT OF PAYMENT

### 1 MOBILIZATION (10%) - BID ITEM - GC-1

A. The quantity to be paid under this Section shall be on a lump sum basis. The Contractor's Lump Sum Unit Price shall include full compensation for all work related to mobilization and demobilization and the work items listed below, and any other related work, except for any work designated to be paid for separately or to be specifically included in the costs of other work under the Contract.

B. Payment shall be made at the basis of a percentage of the Lump Sum Unit Price whereas the Contractor will receive 50% of the total contract price at the start of the project, 75% after 25% of project completion, and 100% after 50% of project completion.

C. Payment shall be made at the Contract Lump Sum Unit Price and shall include, but not be limited to, furnishing all materials, labor, and equipment for the preparatory work and operations in mobilizing for beginning work on the project, including those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, shop drawing submittal, preparation of pre-construction video, establishment of temporary provisions, controls, and, compliance with permit conditions and adherence to State and local laws and regulations, progress meeting attendance, utility protection and coordination, and locating all existing utilities within the project area in accordance with the project specifications and TOWN Standards.

### 2. MAINTENANCE OF TRAFFIC - BID ITEM GC-2

"Traffic Regulation" and all other references to traffic control and maintenance in this document and any regulatory requirements.

A. Payment for maintenance of traffic will be made at the lump sum price named in the Bid Schedule. Payment for maintenance of traffic will be made in equal monthly amounts during the duration of the contract time.

B. Payment for maintenance of traffic shall include all materials, plans, and documents the CONTRACTOR is required to prepare for this section. This plan shall include a Maintenance of Traffic (MOT) plan that shall meet all requirements of FDOT and other authorities having jurisdiction. MOT plans shall be signed and sealed by a Professional Engineer registered in the State of Florida.

### 3. BOND & INSURANCE REQUIREMENTS (3%) - BID ITEM GC-3

A. Payment for bonds and insurance will be made at the lump sum price named in the Bid Schedule. The CONTRACTOR may request payment for this bid item after the Initial Notice to Proceed has been issued.

B. Bonds and Insurance are limited to 3% of the Total Bid Price. Any amount in excess of 3% will be moved to Line Item, Mobilization. However, the total bid amount will not change. The 3% ceiling on Bonds and Insurance is not responsiveness, just an instruction on the amount the TOWN will pay for Bonds and Insurance. CONTRACTOR will record the required public construction bond with the Clerk of the Court in the Public Records of Palm Beach County and provide a certified copy of the recorded bond(s). CONTRACTOR shall provide a Certified copy of the bond within 10-days of the award of the contract. Proof of bond shall be provided prior to the commencing of Work and submittal of first invoice, in accordance with Sec. 255.05, Fla. Stat.

### 4. CLEARING & GRUBBING/SITE WORK/GRADING (EAST & WEST MEDIAN) - BID ITEM GC-4

Landscape Clearing & Grubbing -

The Contract Unit Price for this item shall constitute full compensation for the furnishing of all labor, materials, supervision, and necessary equipment and services to completely remove and dispose of all timber, brush, stumps, roots, rubbish, debris, and all other obstructions resting on or protruding through the surface of the existing ground and the surface of excavated areas. Remove roots and other debris to a depth of at least 12 inches [300 mm] below the ground surface. Completely remove and dispose of all stumps as indicated on the Contract drawings, as specified herein and as directed by the ENGINEER. The quantity of landscape clearing and grubbing to be paid for under this item shall be included with the actual square footage of landscape clearing and grubbing performed and accepted. Payment will be made at the unit price bid for the actual ACERAGE (AC) of clearing and grubbing performed.

### 5. STORMWATER POLLUTION PREVENTION/SILT FENCE & TEMPORARY CONSTRUCTION FENCING - BID ITEM GC-5 & GC-7

Fencing - The Contract Unit Price for this item shall constitute full compensation for the furnishing of all labor, materials, supervision, and necessary equipment and services to complete the installation of fencing, as indicated on the Contract drawings, as specified herein and as directed by the ENGINEER. The quantity of fencing to be paid for under this item shall be the actual number of linear feet of fencing installed and accepted. Payment will be made at the unit price bid for the actual Liner Feet (LF) of fencing installed.

### 6. TREE PRESERVATION FENCING - BID ITEM GC-6

A. Measurement for payment to furnish and install tree protection fencing will be based upon the number of linear feet of such fencing actually constructed, all in accordance with the requirements of the Contract Documents.

B. Payment for furnishing and installing tree protection fencing will be made at the unit price per linear foot of fencing named in the Bid Schedule which price shall constitute full compensation for fencing installed.

### 7. FURNISH AND INSTALL CONCRETE SIDEWALK - BID ITEM C-1 & C-2

A. Measurement and payment for concrete slabs and related concrete blocks will be based upon the actual number of square yards constructed as shown in the drawings, all in accordance with the requirements of the Contract Documents.

B. Payment for this item will be made at the unit price per square yard named in the Bid Schedule (Item Response Form) and detailed on the drawings which price shall constitute full compensation for completing said work.

C. Raised Header Curb - The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete construction of flush header curb as shown on the construction Drawings, specified herein and as directed by the ENGINEER. This item includes, but is not limited to, grading, the installation of curb pad, forming, saw cutting of pavement, cleanup of all areas disturbed by this construction providing temporary sidewalks and walkways interrupted during construction activities, temporary restoration of mailboxes, temporary restoration of driveways, temporary restoration of roads, and temporary restoration of structures. Payment for this item is per Linear Foot (LF) of curb actually constructed as determined by measurement along the centerline of the curb in place.

### 8. FURNISH AND INSTALL ADA DETECTABLE WARNING - BID ITEM C-3

Furnish and Install ADA Detectable Warning - The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of approved ADA detectable warning materials as shown on the construction Drawings, specified herein and as directed by the ENGINEER. This item includes, but not limited to all preparation, placement, cleanup, and restoration. Payment for this item will be based upon the actual quantity, at the unit price as (EA), of such detectable warning installed.

### 9. TREES, SHRUBS & GROUNDCOVER - BID ITEM L-1 TO L-7

Trees, Plants and Groundcover - The Contract Unit Price for this item shall constitute full compensation for the furnishing of all labor, materials, supervision, and necessary equipment and services to complete the installation of all landscape material, as indicated on the Contract drawings, as specified herein and as directed by the ENGINEER. Payment under this item shall be the actual number of plants and/or square footage of sod installed and accepted. Payment will be made at the unit price bid for each (EA) tree, shrub, groundcover or Square Footage (SF) of sod installed. CONTRACTOR shall use all means necessary for preventing dust, debris or other construction refuse from landscape installation operations from being a nuisance to adjacent property of the CITY.

### 10. IRRIGATION - BID ITEM L-8 TO L-12

Irrigation - The Contract Unit Price for this item shall constitute full compensation for the furnishing of all labor, materials, supervision, and necessary equipment and services to complete the installation of all Irrigation material, as indicated on the Contract drawings, as specified herein and as directed by the ENGINEER. Payment under this item shall be the actual number of installed irrigation heads, valves, controller & rain sensor. Payment will be made at the unit price bid for each (EA) installed. CONTRACTOR shall use all means necessary for preventing dust, debris or other construction refuse from landscape installation operations from being a nuisance to adjacent property of the CITY.

### 11. TRENCH SAFETY COMPLIANCE AND CONDUIT 630 -2-11 - BID ITEM ELE-4

The quantity to be paid for under this Section shall be on a lump sum basis. The work specified in this Section consists of furnishing and installing adequate trench and trench safety measures and any special shoring measures for trench safety act compliance. The work also includes the conduit (and all appurtenances necessary for interconnection with the existing conduit system) installation, supply, maintenance and removal of any temporary security fencing required during the course of construction. Measurement is for the straight line HORIZONTAL DISTANCE of the trench or bore, from pull box to pull box, with no allowance for sweeps or vertical distance.

A. Payment shall be made at the basis of a percentage of the Lump Sum Unit Price. The percent completion of the project shall be based on the percent of the total project actually constructed and not on the percent of the Contract price completed.

B. The contract Lump Sum Unit Price shall include compensation for required labor, materials, and equipment necessary for complying with the Trench Safety Act and providing any required Special Shoring, as well as the supply, maintenance, and removal of temporary site security fencing during the construction activities in accordance with the Contract Documents.

### 12. ELECTRICAL REMOVAL, REPAIRS, MODIFICATIONS, AND INSTALLATION OF LOAD CENTER BID ITEM ELE-2 715-7-11 AND BID ITEM ELE-3 715-7-41

A. The quantity to be paid under this Section shall be on a lump sum basis. The Contractor's Lump Sum Unit Price shall include full compensation for all work related to electrical modifications including but not limited to tie in with the existing conduit system, interconnection with the existing nightmaster, installation, removal and reworking of the existing and proposed load center(s), reworking and installation of the proposed 20A fused disconnect for the police equipment.

B. The contract Lump Sum Unit Price shall include compensation for required labor, materials, and equipment necessary for any electrical modifications. The Unit price will include but not be limited to the enclosures, transformers, panel boards, breakers, safety switches, H.O.A. switches panel boards, breakers, lightning arrester, contactors, photo electric switch, grounding, fused disconnect, spare fuses, and the concrete pad (if required). Payment will be made at the unit price bid for the actual equipment installed.

### 13. PULL AND SPLICE BOX 635-2-11 BID ITEM ELE-5

A. The quantity to be paid under this Section shall be on a lump sum basis. The Contractor's Lump Sum Unit Price shall include full compensation for all work related to the pull boxes including: box covers with lifting slots and a flush-sealing lockdown mechanism. Use penta-head lockdown lag bolts. Lockdown bolts and lifting slots are Type 316, 304, or 302 passivated stainless steel or brass. Lockdown bolt assembly is designed to prevent seizing and can be removed without damaging the cover or box body. Lockdown bolt threaded insert/nut assembly is field replaceable.

B. The contract Lump Sum Unit Price shall include compensation for required labor, materials, and equipment necessary for any pull boxes and ancillary equipment. Payment will be made at the unit price bid for the actual equipment installed.

### 14. CONDUCTORS, INSULATED, #8 AND OTHERS AS REQUIRED BID ITEM 715-1-12 ELE-1

A. The quantity to be paid under this Section shall be on a lump sum basis. The Contractor's Lump Sum Unit Price shall include full compensation for all work related to conductors.

B. The contract Lump Sum Unit Price shall include compensation for required labor, materials, and equipment necessary for any conductors, connections, and ancillary equipment. Payment will be made at the unit price bid for the actual equipment installed.

**cma**  
chen moore and associates

500 West Cypress Creek Road  
Suite 600  
Ft. Lauderdale, FL 33309  
954.730.0707  
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#### REGISTRATION

ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
DATE: 1/23/2025



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#### CLIENT

**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

#### PROJECT INFORMATION

**ROYAL  
POINCIANA WAY**

#### PROJECT NUMBER

24-0431.00060

#### CLIENT PROJECT NUMBER

PO 240844

#### VERIFY SCALES

0 1"

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#### REVISIONS

#### DATE OF ISSUE

1/17/25

#### DESIGNED BY

ESF/EDH

#### DRAWN BY

ESF/EDH

#### CHECKED BY

ESF/EDH

#### DRAWING TITLE

**GENERAL NOTES  
(MEASUREMENT  
OF PAYMENT)**

#### DRAWING NUMBER

**GN-1**  
2 OF 26

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CLIENT  
**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

PROJECT INFORMATION

**ROYAL POINCIANA WAY**

PROJECT NUMBER  
24-0431.00060

CLIENT PROJECT NUMBER  
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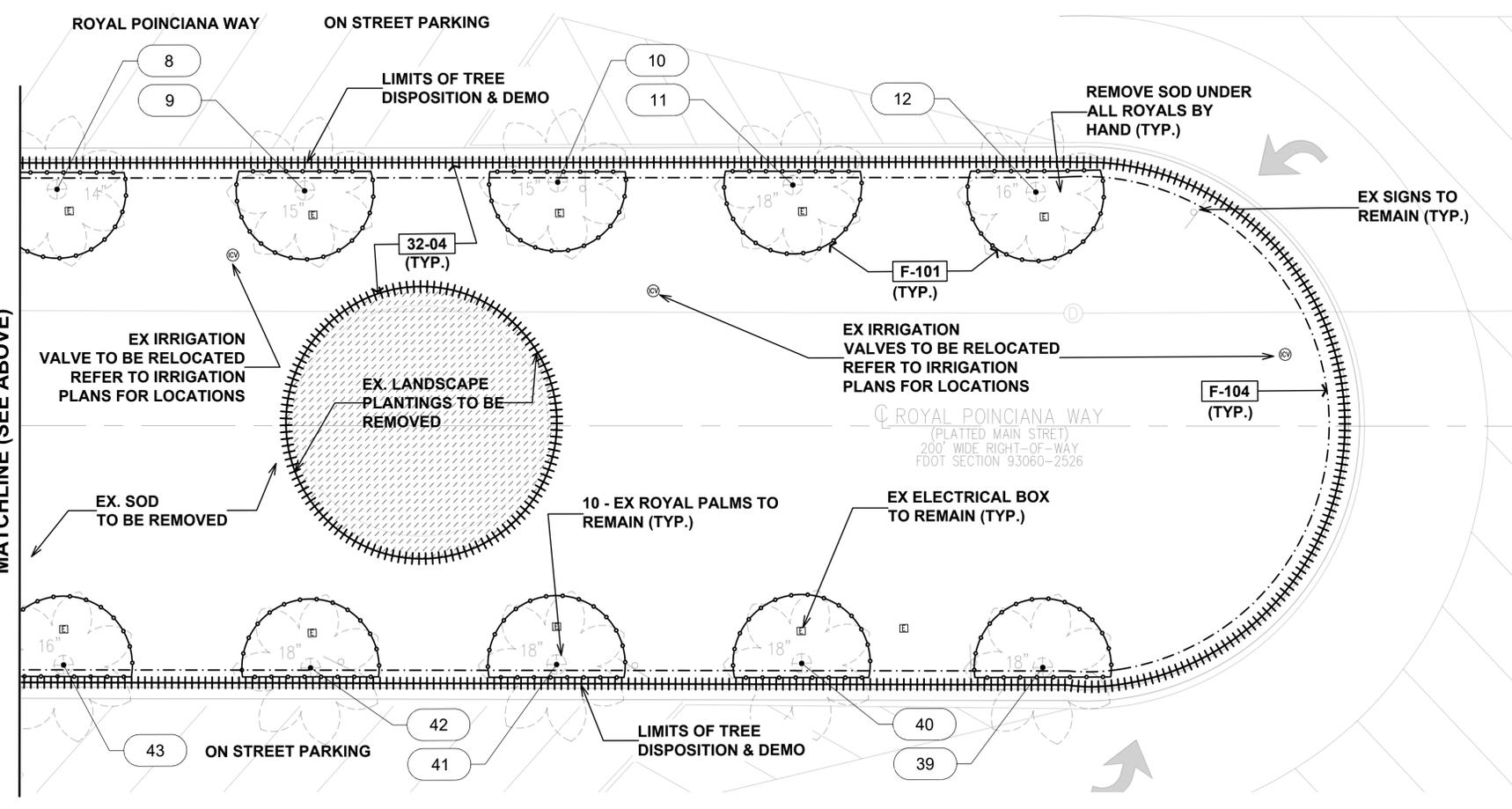
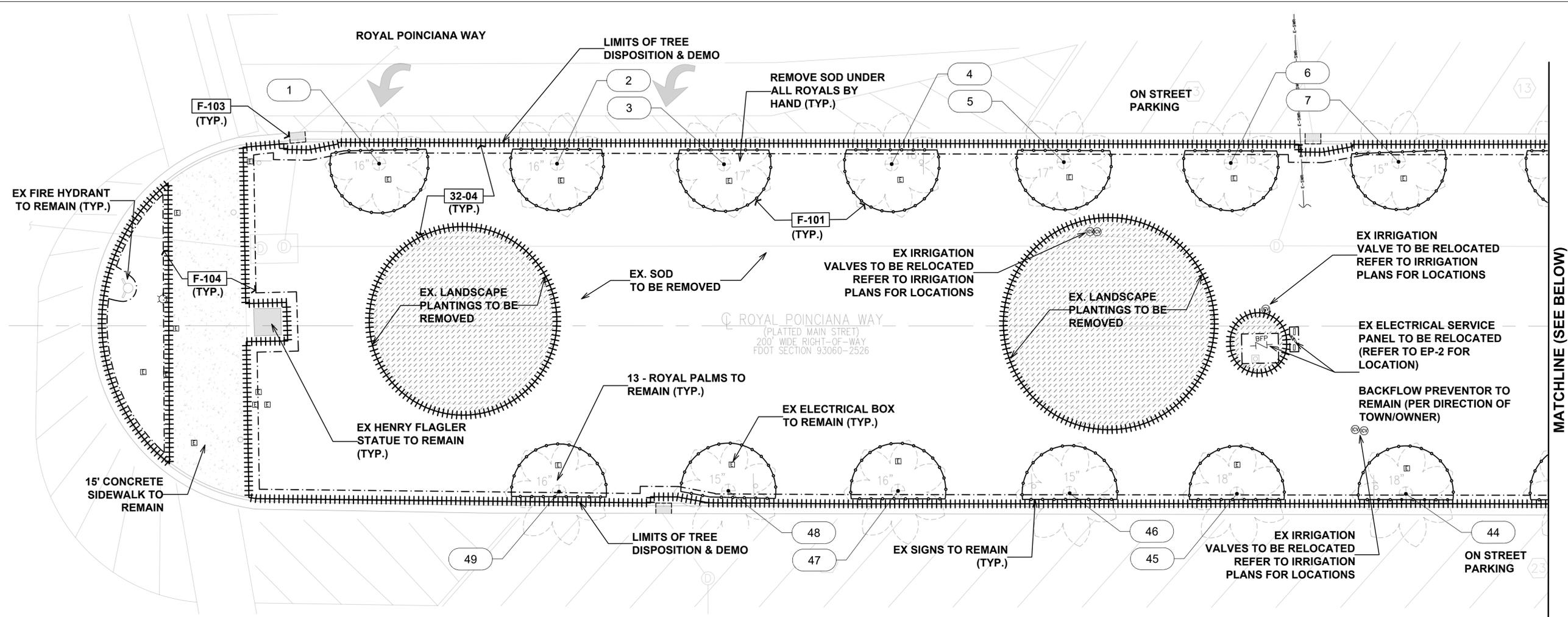
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DRAWING TITLE

**TREE DISPOSITION & DEMO PLAN**

DRAWING NUMBER

**TD-1**



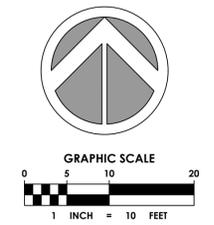
**PLANT LEGEND:**

SYMBOL	DESCRIPTION
	EXISTING TREE OR PALM TO REMAIN
#	TREE OR PALM ID NUMBER

**REFERENCE NOTES SCHEDULE WEST ZONE**

CODE	DESCRIPTION	QTY
32-04	LIMITS OF TREE DISPOSITION DEMO	29,172 sf
F-101	TREE PROTECTION FENCING	1,163 lf
F-103	SILT FENCE	21 lf
F-104	TEMPORARY CONSTRUCTION FENCING	1,120 lf

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Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
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Plot Date: 1/23/2025 10:14:29 AM Username: eferguson Layout Name: TD-1  
Folder Path: V:\Projects\2024\24-0431.00060 - Royal Poinciana Way Median\Design\CAD Sheets  
Filename: 24-0431.00060 - Tree Disposition.dwg



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CLIENT  
**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

PROJECT INFORMATION

**ROYAL POINCIANA WAY**

PROJECT NUMBER  
24-0431.00060

CLIENT PROJECT NUMBER  
PO 240844

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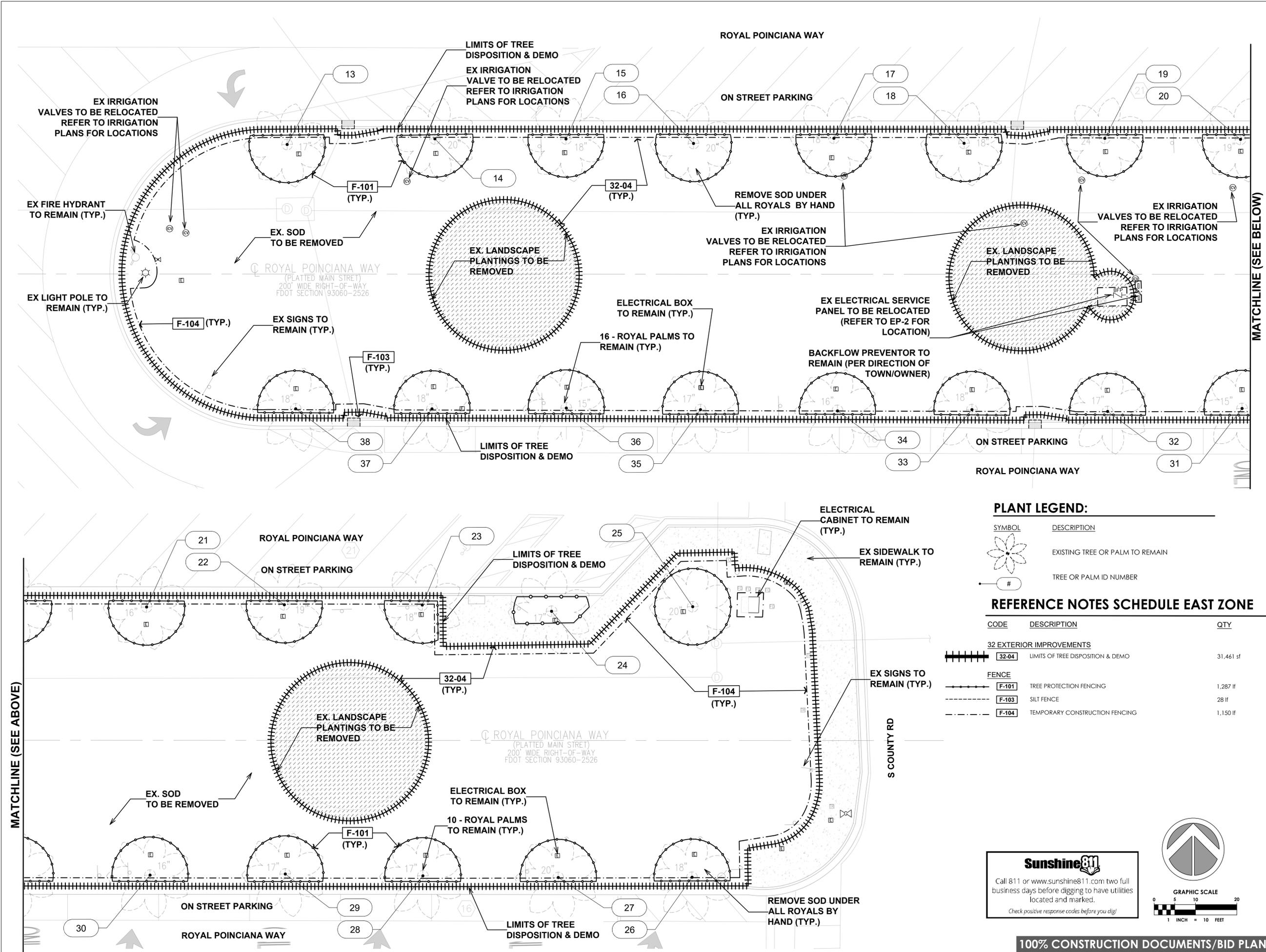
DRAWING TITLE

**TREE DISPOSITION & DEMO PLAN**

DRAWING NUMBER

**TD-2**  
4 OF 26

Plot Date: 1/23/2025 10:14:30 AM Username: eferguson Layout Name: TD-2  
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Filename: 24-0431.00060 - Tree Disposition.dwg



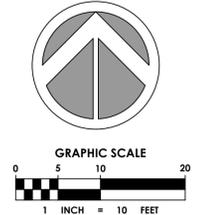
**PLANT LEGEND:**

SYMBOL	DESCRIPTION
	EXISTING TREE OR PALM TO REMAIN
#	TREE OR PALM ID NUMBER

**REFERENCE NOTES SCHEDULE EAST ZONE**

CODE	DESCRIPTION	QTY
32 EXTERIOR IMPROVEMENTS		
32-04	LIMITS OF TREE DISPOSITION & DEMO	31,461 sf
FENCE		
F-101	TREE PROTECTION FENCING	1,287 lf
F-103	SILT FENCE	28 lf
F-104	TEMPORARY CONSTRUCTION FENCING	1,150 lf

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# TREE DISPOSITION CHART

Tree ID#	Common Name	Scientific Name	DBH (in.)	Canopy Diameter	Disposition	Condition
1	ROYAL PALM	ROYSTONEA REGIA	16	18	Remain	Fair (41% to 60%)
2	ROYAL PALM	ROYSTONEA REGIA	16	17	Remain	Fair (41% to 60%)
3	ROYAL PALM	ROYSTONEA REGIA	17	16	Remain	Fair (41% to 60%)
4	ROYAL PALM	ROYSTONEA REGIA	18	18	Remain	Fair (41% to 60%)
5	ROYAL PALM	ROYSTONEA REGIA	17	17	Remain	Fair (41% to 60%)
6	ROYAL PALM	ROYSTONEA REGIA	15	16	Remain	Fair (41% to 60%)
7	ROYAL PALM	ROYSTONEA REGIA	15	18	Remain	Fair (41% to 60%)
8	ROYAL PALM	ROYSTONEA REGIA	14	19	Remain	Fair (41% to 60%)
9	ROYAL PALM	ROYSTONEA REGIA	15	20	Remain	Fair (41% to 60%)
10	ROYAL PALM	ROYSTONEA REGIA	15	18	Remain	Fair (41% to 60%)
11	ROYAL PALM	ROYSTONEA REGIA	18	19	Remain	Fair (41% to 60%)
12	ROYAL PALM	ROYSTONEA REGIA	16	18	Remain	Fair (41% to 60%)
13	ROYAL PALM	ROYSTONEA REGIA	17	17	Remain	Fair (41% to 60%)
14	ROYAL PALM	ROYSTONEA REGIA	20	18	Remain	Fair (41% to 60%)
15	ROYAL PALM	ROYSTONEA REGIA	18	18	Remain	Fair (41% to 60%)
16	ROYAL PALM	ROYSTONEA REGIA	20	17	Remain	Fair (41% to 60%)
17	ROYAL PALM	ROYSTONEA REGIA	18	20	Remain	Fair (41% to 60%)
18	ROYAL PALM	ROYSTONEA REGIA	18	18	Remain	Fair (41% to 60%)
19	ROYAL PALM	ROYSTONEA REGIA	24	16	Remain	Fair (41% to 60%)
20	ROYAL PALM	ROYSTONEA REGIA	19	17	Remain	Fair (41% to 60%)
21	ROYAL PALM	ROYSTONEA REGIA	16	18	Remain	Fair (41% to 60%)
22	ROYAL PALM	ROYSTONEA REGIA	19	18	Remain	Fair (41% to 60%)
23	ROYAL PALM	ROYSTONEA REGIA	18	19	Remain	Fair (41% to 60%)
24	ROYAL PALM	ROYSTONEA REGIA	17	18	Remain	Fair (41% to 60%)
25	ROYAL PALM	ROYSTONEA REGIA	20	18	Remain	Fair (41% to 60%)
26	ROYAL PALM	ROYSTONEA REGIA	18	17	Remain	Fair (41% to 60%)
27	ROYAL PALM	ROYSTONEA REGIA	20	18	Remain	Fair (41% to 60%)
28	ROYAL PALM	ROYSTONEA REGIA	17	17	Remain	Fair (41% to 60%)
29	ROYAL PALM	ROYSTONEA REGIA	17	18	Remain	Fair (41% to 60%)
30	ROYAL PALM	ROYSTONEA REGIA	16	18	Remain	Fair (41% to 60%)
31	ROYAL PALM	ROYSTONEA REGIA	15	20	Remain	Fair (41% to 60%)
32	ROYAL PALM	ROYSTONEA REGIA	17	17	Remain	Fair (41% to 60%)
33	ROYAL PALM	ROYSTONEA REGIA	18	18	Remain	Fair (41% to 60%)
34	ROYAL PALM	ROYSTONEA REGIA	16	18	Remain	Fair (41% to 60%)
35	ROYAL PALM	ROYSTONEA REGIA	17	19	Remain	Fair (41% to 60%)
36	ROYAL PALM	ROYSTONEA REGIA	15	20	Remain	Fair (41% to 60%)
37	ROYAL PALM	ROYSTONEA REGIA	18	16	Remain	Fair (41% to 60%)
38	ROYAL PALM	ROYSTONEA REGIA	18	17	Remain	Fair (41% to 60%)
39	ROYAL PALM	ROYSTONEA REGIA	18	18	Remain	Fair (41% to 60%)
40	ROYAL PALM	ROYSTONEA REGIA	18	19	Remain	Fair (41% to 60%)
41	ROYAL PALM	ROYSTONEA REGIA	18	18	Remain	Fair (41% to 60%)
42	ROYAL PALM	ROYSTONEA REGIA	18	20	Remain	Fair (41% to 60%)
43	ROYAL PALM	ROYSTONEA REGIA	16	18	Remain	Fair (41% to 60%)
44	ROYAL PALM	ROYSTONEA REGIA	18	17	Remain	Fair (41% to 60%)
45	ROYAL PALM	ROYSTONEA REGIA	18	16	Remain	Fair (41% to 60%)
46	ROYAL PALM	ROYSTONEA REGIA	15	18	Remain	Fair (41% to 60%)
47	ROYAL PALM	ROYSTONEA REGIA	16	19	Remain	Fair (41% to 60%)
48	ROYAL PALM	ROYSTONEA REGIA	15	16	Remain	Fair (41% to 60%)
49	ROYAL PALM	ROYSTONEA REGIA	16	17	Remain	Fair (41% to 60%)
<b>TOTAL NUMBER OF PALMS TO BE REMAIN</b>		<b>49</b>				

## GENERAL DEMOLITION NOTES:

- DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
- CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
- DO NOT CLOSE OR OBSTRUCT STREETS, WALKWAYS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE TOWN OF PALM BEACH AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
- CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
- ERECT TEMPORARY PROTECTION, SUCH AS WALKWAYS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
- ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
- FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.
- INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. TAKE RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
- REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
- ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS.
- REFER TO ELECTRICAL PLANS FOR ALL DEMOLITION AND RELOCATIONS.

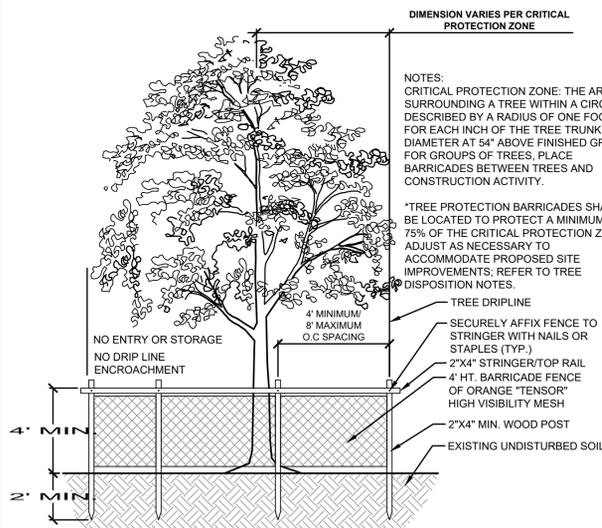
## IRRIGATION DEMOLITION NOTES:

- TAKE RESPONSIBILITY TO IDENTIFY AND INVENTORY ALL EXISTING IRRIGATION EQUIPMENT WITHIN LIMITS OF CLEARING & GRUBBING WHICH INCLUDES ALL VALVE BOXES, VALVES, IRRIGATION HEADS, QUICK COUPLERS, GATE VALVES, IRRIGATION CONTROLLER, JUNCTION BOXES AND DECODERS. IDENTIFY WHAT CAN BE SALVAGED AND RE-USED IF NOT DAMAGED PER RE-DESIGN (SEE PLANS). CUT AND CAP AT LOCATIONS SHOWN ON PLANS, REDIRECTION OF MAINLINE AND ELECTRICAL WIRE ARE LABELED AS PROPOSED. ALL IRRIGATION ZONES OUTSIDE LIMITS OF PLANS ARE TO BE OPERATIONAL AND RUNNING AT TIME OF CONSTRUCTION. DURING TIME OF CONSTRUCTION ALL EXISTING MATERIAL SHALL BE STORED BY TOWN OF PALM BEACH PUBLIC WORKS DEPARTMENT UNTIL FURTHER NOTICE.

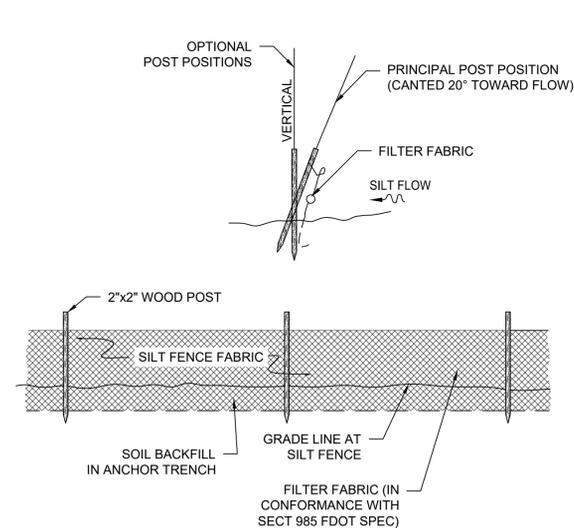
## MAINTENANCE OF TRAFFIC

- MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS INDEX, 600 SERIES, 2020-21 EDITION OF THE STANDARD PLANS.
- NO EXCAVATIONS WILL BE CONDUCTED WITHIN THE ROADWAY OF ROYAL POINCIANA WAY. MOVEMENTS OF CONSTRUCTION VEHICLES AND STAGING OF EQUIPMENT SHALL BE FOR NO LONGER THAN 60 MINUTES. OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 602.
- TAKE RESPONSIBILITY FOR ACQUIRING FDOT AND TOWN OF PALM BEACH RIGHT OF WAY PERMITS. AS A CONDITION OF THE TOWN ROW PERMIT REQUIREMENTS, TAKE RESPONSIBILITY FOR SUBMITTING WEEKLY TRAFFIC UPDATES TO THE TOWN FOR THE DURATION OF THE PROJECT.

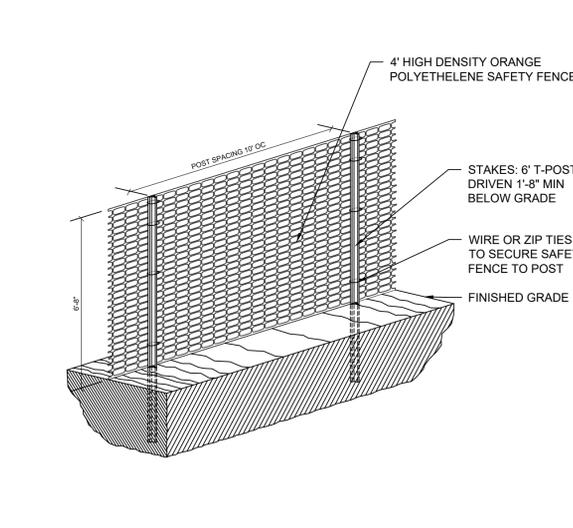
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 Folder Path: V:\Projects\2024\24-0431.00060 - Royal Poinciana Way Median\Design\CAD Sheets  
 Filename: 24-0431.00060 - Tree Disposition.dwg



**1 TREE PRESERVATION FENCING**  
1/4" = 1'-0" 329343-24



**2 SILT FENCE BARRIER DETAIL**  
1" = 20' 312553-02



**3 ORANGE CONSTRUCTION FENCE DETAIL**  
1" = 20' 312553-03

**Sunshine 811**

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

*Check positive response codes before you dig!*

cma

chen moore and associates

500 West Cypress Creek Road  
Suite 600  
Ft. Lauderdale, FL 33309  
954.730.0707  
www.chenmoore.com

**REGISTRATION**  
ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
DATE: 1/23/2025



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**CLIENT**  
**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

**PROJECT INFORMATION**

**ROYAL POINCIANA WAY**

**PROJECT NUMBER**  
24-0431.00060

**CLIENT PROJECT NUMBER**  
PO 240844

**VERIFY SCALES**  
0 1" = 100'

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**REVISIONS**

**DATE OF ISSUE**  
1/17/25

**DESIGNED BY**  
ESF/EDH

**DRAWN BY**  
ESF/EDH

**CHECKED BY**  
ESF/EDH

**DRAWING TITLE**  
**TREE DISPOSITION CHART**

**DRAWING NUMBER**  
**TD-3**



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PROJECT INFORMATION

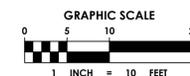
**ROYAL POINCIANA WAY**

REFERENCE NOTES SCHEDULE 1

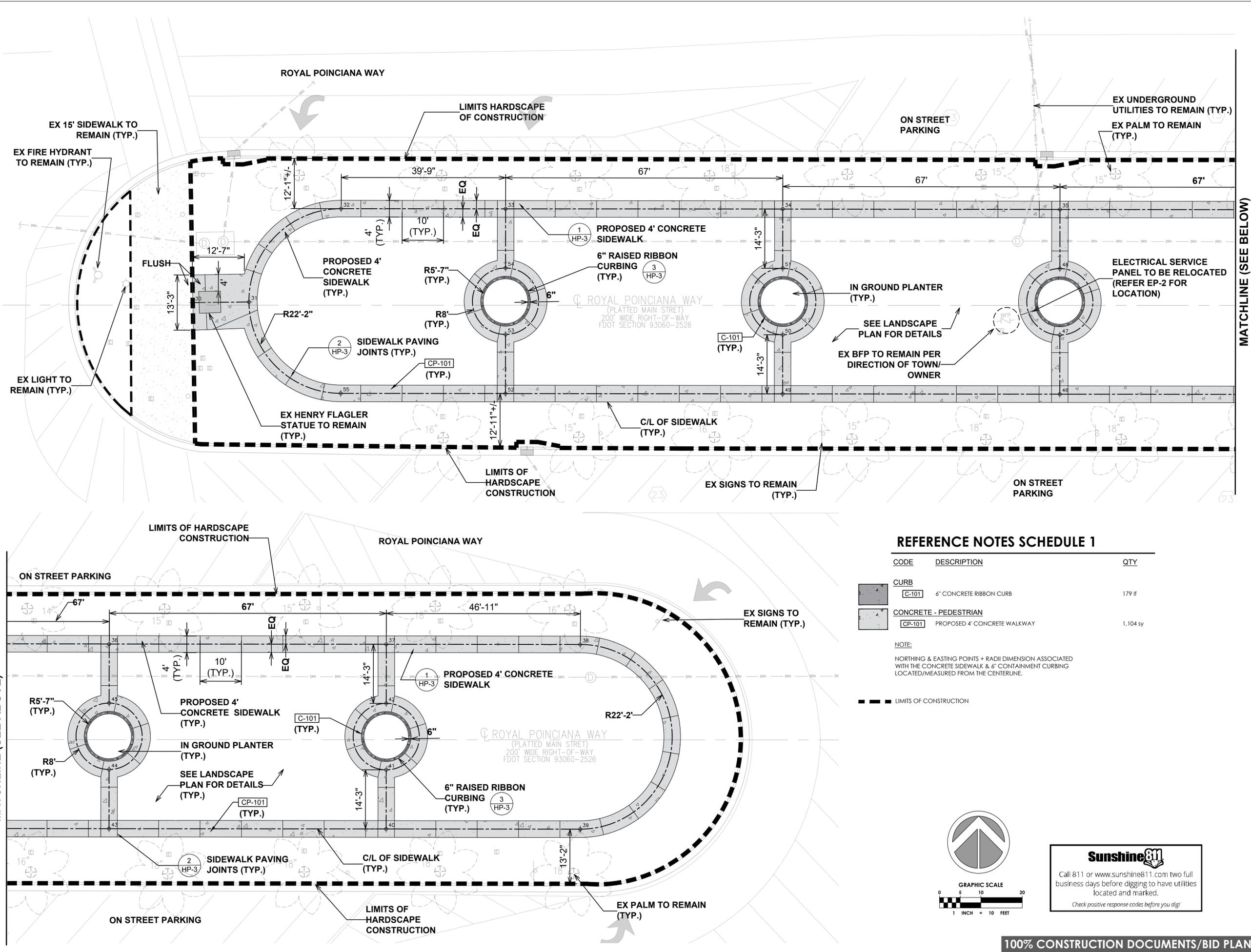
CODE	DESCRIPTION	QTY
<b>CURB</b>		
C-101	6" CONCRETE RIBBON CURB	179 lf
<b>CONCRETE - PEDESTRIAN</b>		
CP-101	PROPOSED 4" CONCRETE WALKWAY	1,104 sy

NOTE:  
NORTHING & EASTING POINTS + RADII DIMENSION ASSOCIATED WITH THE CONCRETE SIDEWALK & 6" CONTAINMENT CURBING LOCATED/MEASURED FROM THE CENTERLINE.

--- LIMITS OF CONSTRUCTION



**Sunshine811**  
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
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Plot Date: 1/23/2025 10:14:40 AM Username: eferguson Layout Name: HP-1  
 Folder Path: V:\Projects\2024\24-0431.00060 - Royal Poinciana Way Median\Design\CAD Sheets  
 Filename: 24-0431.00060 - Hardscape Plan.dwg

MATCHLINE (SEE ABOVE)

MATCHLINE (SEE BELOW)



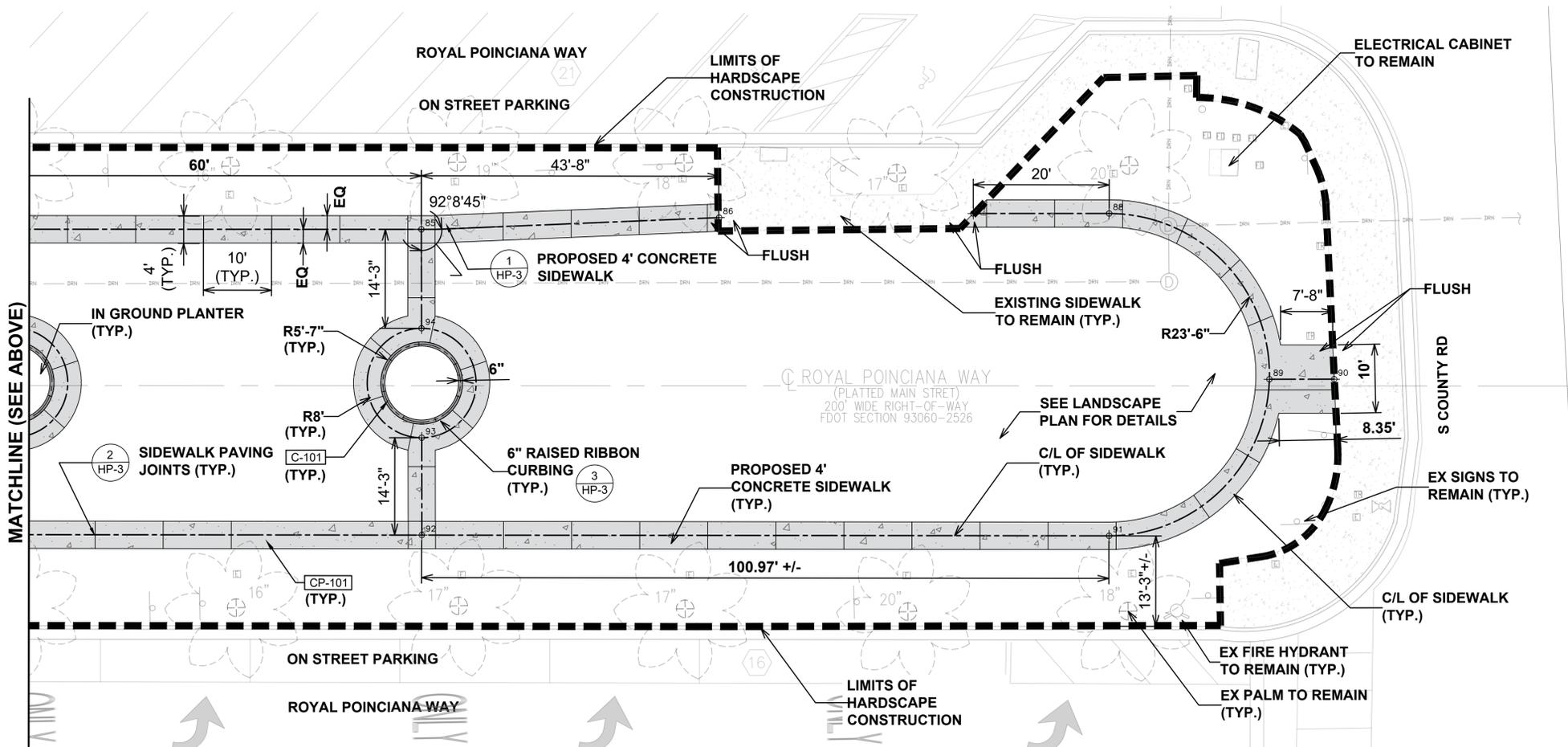
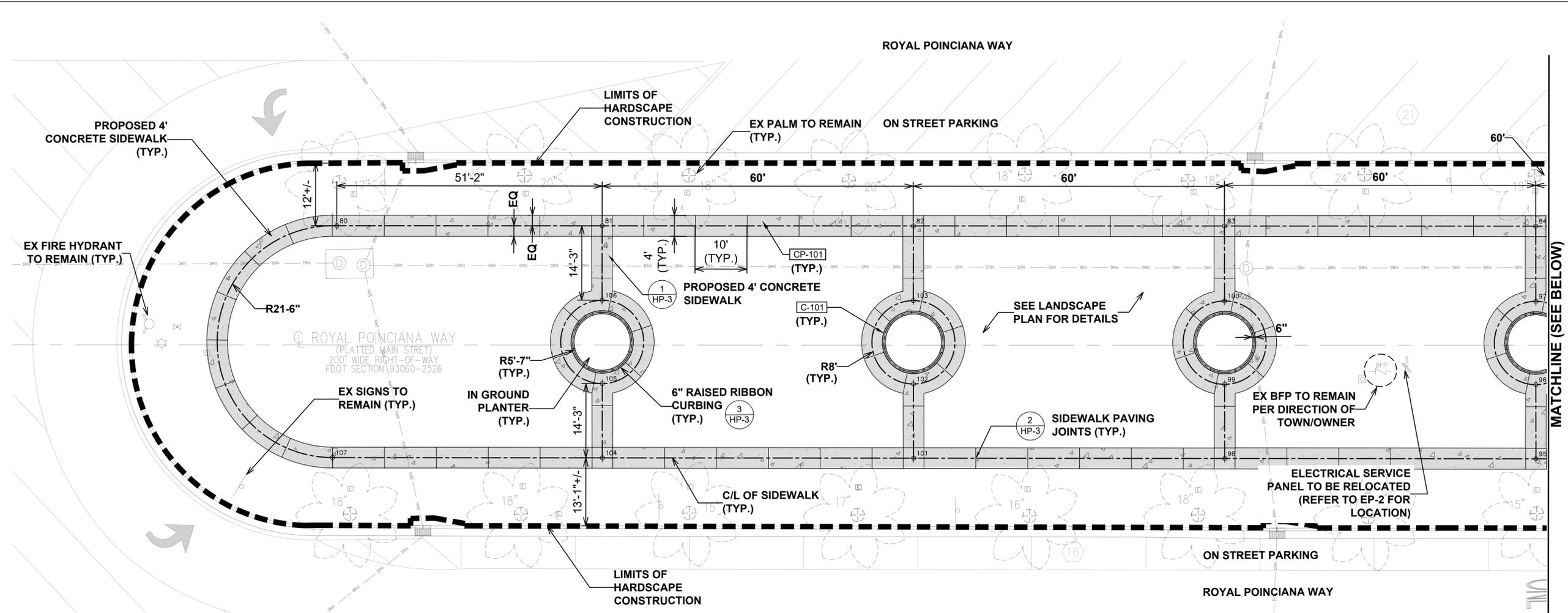
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Project Manager:  
Mike Roach, PE

PROJECT INFORMATION

**ROYAL POINCIANA WAY**

Plot Date: 1/23/2025 10:14:43 AM Username: eferguson Layout Name: HP-2  
Folder Path: V:\Projects\2024\24-0431.00060 - Royal Poinciana Way Median\Design\CAD Sheets  
Filename: 24-0431.00060 - Hardscape Plan.dwg



**REFERENCE NOTES SCHEDULE 2**

CODE	DESCRIPTION	QTY
CURB C-101	6" CONCRETE RIBBON CURB	179 lf
CONCRETE - PEDESTRIAN CP-101	PROPOSED 4' CONCRETE WALKWAY	1,128 sy

NOTE:  
NORTHING & EASTING POINTS + RADII DIMENSION ASSOCIATED WITH THE CONCRETE SIDEWALK & 6" CONTAINMENT CURBING LOCATED/MEASURED FROM THE CENTERLINE.

--- LIMITS OF CONSTRUCTION



**Sunshine811**  
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REVISIONS

DATE OF ISSUE  
1/17/25  
DESIGNED BY  
ESF/EDH  
DRAWN BY  
ESF/EDH  
CHECKED BY  
ESF/EDH  
DRAWING TITLE

**HARDSCAPE PLAN**

DRAWING NUMBER  
**HP-2**  
7 OF 26

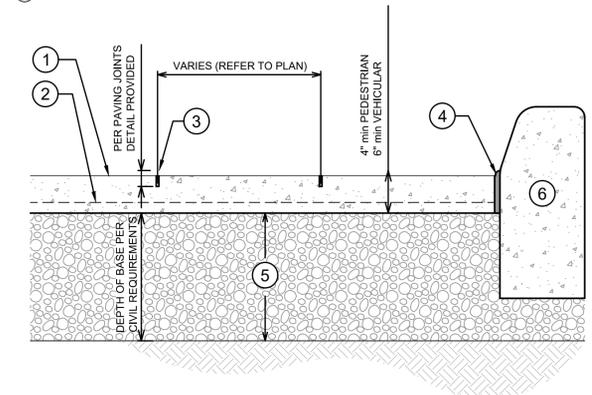
**NORTHERN/EASTERN POINT SCHEDULE:**

POINT	NORTHING	EASTING
30	N 867934.3398	E 969277.6534
31	N 867934.2237	E 969291.2139
32	N 867956.2620	E 969313.9148
33	N 867955.4616	E 969353.6793
34	N 867954.1393	E 969420.6666
35	N 867952.7648	E 969487.6627
36	N 867951.3900	E 969554.6512
37	N 867950.0686	E 969621.6314
38	N 867949.1253	E 969668.4965
39	N 867904.6658	E 969667.6533
40	N 867905.6099	E 969620.7435
41	N 867919.8407	E 969621.0300
42	N 867935.8376	E 969621.3450
43	N 867906.9522	E 969553.7629
44	N 867921.1889	E 969554.0466
45	N 867937.1858	E 969554.3653
46	N 867908.3066	E 969486.7738
47	N 867922.5373	E 969487.0603
48	N 867938.5341	E 969487.3791
49	N 867909.6548	E 969419.7901
50	N 867923.8857	E 969420.0708
51	N 867939.8825	E 969420.3858
52	N 867911.0031	E 969352.8036
53	N 867925.2339	E 969353.0839
54	N 867941.2308	E 969353.3990
55	N 867911.8047	E 969312.9794
80	N 867946.5583	E 969796.5148
81	N 867945.5785	E 969847.6625
82	N 867944.3996	E 969907.6579
83	N 867943.2515	E 969967.6185
84	N 867942.0875	E 970027.6246
85	N 867940.9242	E 970087.5957
86	N 867941.8142	E 970131.3579
87	N 867941.7049	E 970168.7000
88	N 867941.3185	E 970188.6708
89	N 867916.6435	E 970211.7453
90	N 867916.4783	E 970221.2588
91	N 867894.2139	E 970187.7618
92	N 867896.2396	E 970086.8126
93	N 867910.4670	E 970087.0626
94	N 867926.4646	E 970087.3424
95	N 867897.4433	E 970026.8263
96	N 867911.6745	E 970027.0748
97	N 867927.6717	E 970027.3736
98	N 867898.6473	E 969966.8270
99	N 867912.8819	E 969967.0846
100	N 867928.8794	E 969967.3683
101	N 867899.8509	E 969906.8495
102	N 867914.0893	E 969907.0998
103	N 867930.0869	E 969907.3812
104	N 867901.0549	E 969846.8502
105	N 867915.2968	E 969847.1101
106	N 867931.2944	E 969847.3898
107	N 867902.0989	E 969794.8222

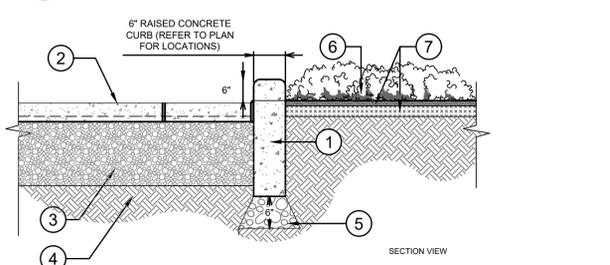


**HARDSCAPE DETAILS:**

- 1 PROPOSED 4' CONCRETE SIDEWALK TROWELED FINISH - SEE PLANS
- 2 10G 6x6 W1.4xW1.4 WIRE MESH AS DIRECTED BY ENGINEER PLACE MESH AT BOTTOM THIRD OF SIDEWALK
- 3 ALL CONTROL JOINTS SAW CUT 1/4", 1-1/2" DEPTH
- 4 CONSTRUCTION JOINT
- 5 COMPACTED SUB-BASE (98% AASHTO, 12" MIN.)
- 6 CURB, WALL OR OTHER VERTICAL HARDSCAPE SURFACE.

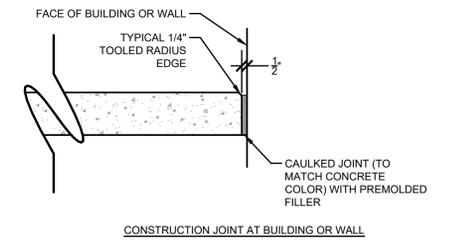
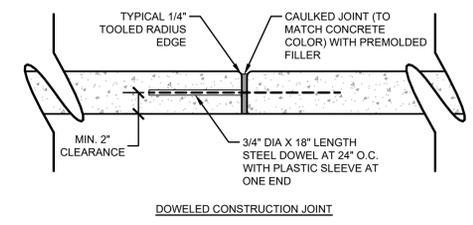
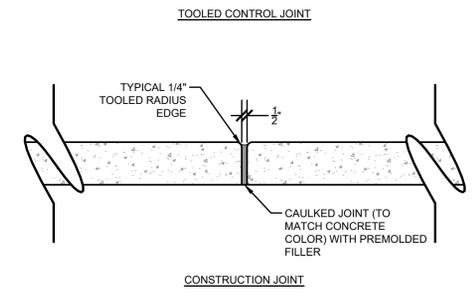
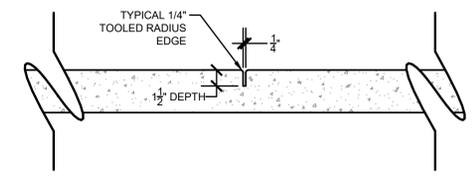


**1 PROPOSED 4' CONCRETE SIDEWALK**  
1 1/2" = 1'-0" P-TH-07



- 1 18" DEPTH, 3500 PSI FIBERMESH® REINF. CONC. CURB. SAW CUT JOINT REQUIRED EVERY ±15' INTERVAL.
- 2 EXPOSED CONCRETE TROWELED FINISH
- 3 COMPACTED SUB-BASE (98% AASHTO, 12" MIN)
- 4 EXISTING SUBGRADE
- 5 6" MIN. COMPACTED CHRUSHED LIMEROCK BASE (95% MODIFIED PROCTOR)
- 6 PLANTER (SEE PLAN FOR LOCATIONS)
- 7 FINISH BED WITH EXISTING TOPSOIL

**3 RAISED CONCRETE CONTAINMENT CURBING**  
3/4" = 1'-0" P-CU-34



**2 TYPICAL CONCRETE PAVING JOINTS**  
1 1/2" = 1'-0" 321313-20

**GENERAL NOTES**

- ALL WALKWAYS SHALL BE ACCESSIBLE ROUTES WITH RUNNING SLOPES NOT TO EXCEED 1:20 AND CROSS SLOPES SHALL NOT EXCEED 1:50 AS PER 402.2 FBC.
- ELEVATION CHANGES IN ACCESSIBLE ROUTE SHALL COMPLY WITH 303 FBC. SPECIAL ATTENTION TO BE PAID AT POINTS WHERE NEW WALKS MEET EXISTING.
- CONTRACTOR TO PROVIDE AN EXPANSION JOINT WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE.
- PROVIDED QUANTITIES ARE ESTIMATES. ACTUAL QUANTITIES WILL VARY AND SHALL BE VERIFIED BY GENERAL CONTRACTOR.
- BOUNDARY OF TREE PRESERVATION SHOWN FOR INFORMATIONAL PURPOSES ONLY. ACTUAL LOCATION, BOUNDARY AND QUANTITY OF TREE PRESERVATION FENCING TO BE QUANTIFIED BY GENERAL CONTRACTOR. ANY TREES WITHIN AN AREA OF IMPACT BY CONSTRUCTION RELATED ACTIVITY SHALL BE PROTECTED PER DETAIL PROVIDED ON TD-3.

**EXISTING CONDITIONS/SURVEY NOTES**

- THE SURVEY DEPICTED HEREON IS CLASSIFIED AS A TOPOGRAPHIC AND TREE SURVEY AND IS IN COMPLIANCE WITH CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE.
- ENGENUITY GROUP, INC. AND THE CERTIFYING SURVEYOR ACCEPT NO RESPONSIBILITY FOR RIGHT-OF-WAYS, EASEMENTS RESTRICTIONS OR OTHER MATTERS AFFECTING TITLE TO THE LANDS SURVEYED OTHER THAN THOSE RECITED IN THE CURRENT DEED AND/OR OTHER INSTRUMENT OF RECORD FURNISHED BY THE CLIENT.
- UNDERGROUND UTILITIES WERE NOT SEARCHED FOR OR LOCATED BY ENGENUITY GROUP, INC.
- THE SURVEY IS NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND RAISED SEAL OR ELECTRONIC SIGNATURE OF A FLORIDA LICENSED SURVEYOR AND MAPPER. OTHERWISE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY.
- LAST DATE OF FIELD SURVEY: JULY 25, 2024
- ALL DISTANCES SHOWN HEREON ARE IN U.S. FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED.
- ADDITIONS OR DELETIONS TO THE SURVEY MAP BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- ACCURACY STATEMENT: A FIELD SURVEY WAS PERFORMED IN ACCORDANCE WITH CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATE STATUTES FOR TOPOGRAPHIC SURVEYS. THE ACCURACY OF CONTROL DATA WAS VERIFIED BY REDUNDANT MEASUREMENTS OF TRAVERSE CLOSURES AND EXCEEDS COMMERCIAL/HIGH RISK: LINEAR: 1 FOOT IN 10,000 FEET.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.
- ALL DIMENSIONS SHOWN HEREON ARE MEASURED UNLESS OTHERWISE NOTED.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) AND REFERENCE THE FOLLOWING BENCHMARK: TR 10 RM 1 ELEVATION=15.910 (NAVD 1988) AT PALM BEACH, 0.2 MILE EAST ALONG A PRIVATE DRIVEWAY FROM THE JUNCTION OF NORTH COUNTY ROAD, ABOUT 0.5 MILE NORTH OF THE INTERSECTION OF ROYAL PALM WAY, SET IN THE TOP OF THE WEST END OF THE CONCRETE SEAWALL WHICH IS ALONG THE NORTH SIDE OF THE BREAKERS HOTEL, 1.8 FEET NORTH OF THE NORTHWEST CORNER OF THE NORTHEAST WING OF THE HOTEL, 1.9 FEET EAST OF THE WEST END OF THE SEAWALL AND 3.3 FEET ABOVE THE LEVEL OF THE SIDEWALK.
- THE FOLLOWING CONVERSION MAY BE USED TO CONVERT FROM THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) (PER U.S. ARMY CORPS OF ENGINEERS CORPSCON VERSION 6.0.1).  
NGVD 29 - 1.574 = NAVD 88.
- THIS SURVEY IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM TRANSVERSE MERCATOR, FLORIDA EAST ZONE 901, NORTH AMERICAN DATUM OF 1983 (1990 ADJUSTMENT).

**PAVING AND GRADING NOTES**

- ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
- ALL NON-DIRECTIONAL WALKING SURFACES (OPEN AREAS/PLAZAS) SHALL BE CONSTRUCTED WITH 2% MAXIMUM SLOPE IN ANY GIVEN DIRECTION.
- ALL CONNECTIONS TO EXISTING SIDEWALK SHALL BE MATCHED IN ELEVATION AND SAWCUT WITH A CLEAN JOINT.
- BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- INSTALL DETECTABLE WARNING IN ACCORDANCE WITH FDOT SPECIFICATION 527
- PLACE DETECTABLE WARNING ACROSS THE FULL WIDTH OF THE WALKWAY TO A MINIMUM OF TWO (2) FEET MEASURE PERPENDICULAR TO THE CURB LINE AND NO GREATER THAN FIVE (5) FEET FROM THE BACK OF THE CURB OR EDGE OF PAVEMENT

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**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

**PROJECT INFORMATION**  
**ROYAL POINCIANA WAY**

**PROJECT NUMBER**  
24-0431.00060

**CLIENT PROJECT NUMBER**  
PO 240844

**VERITY SCALES**  
0 1" = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**REVISIONS**

**DATE OF ISSUE**  
1/17/25

**DESIGNED BY**  
ESF/EDH

**DRAWN BY**  
ESF/EDH

**CHECKED BY**  
ESF/EDH

**DRAWING TITLE**

**HARDSCAPE DETAILS**

**DRAWING NUMBER**  
**HP-3**  
8 OF 26





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**ROYAL POINCIANA WAY**

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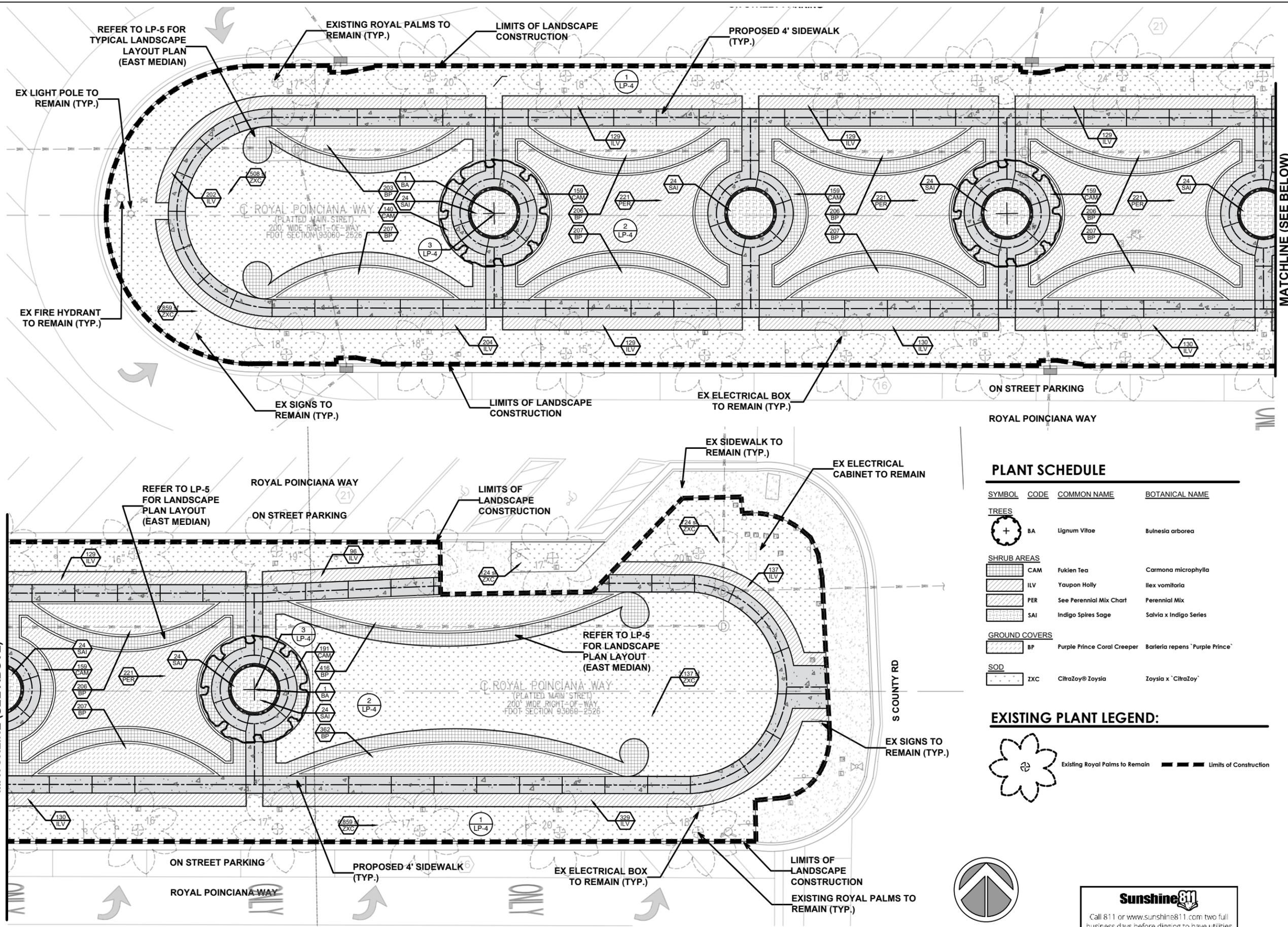
CHECKED BY  
ESF/EDH

DRAWING TITLE

**LANDSCAPE PLAN**

DRAWING NUMBER

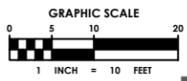
**LP-2**



**PLANT SCHEDULE**

SYMBOL	CODE	COMMON NAME	BOTANICAL NAME
<b>TREES</b>			
	BA	Lignum Vitae	Bulnesia arborea
<b>SHRUB AREAS</b>			
	CAM	Fukien Tea	Carmona microphylla
	ILV	Yaupon Holly	Ilex vomitoria
	PER	See Perennial Mix Chart	Perennial Mix
	SAI	Indigo Spires Sage	Salvia x Indigo Series
<b>GROUND COVERS</b>			
	BP	Purple Prince Coral Creeper	Barleria repens 'Purple Prince'
<b>SOD</b>			
	ZXC	CitraZoy® Zoysia	Zoysia x 'CitraZoy'

**EXISTING PLANT LEGEND:**



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

Plot Date: 1/23/2025 10:14:55 AM Username: eferguson Layout Name: LP-2  
Folder Path: V:\Projects\2024\24-0431.00060 - Royal Poinciana Way Median\Design\CAD\Sheets  
Filename: 24-0431.00060 - Landscape Plan.dwg

# LANDSCAPE NOTES

1. **GENERAL**
  - 1.1. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
    - 1.1.1. THESE GENERAL NOTES, CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
    - 1.1.2. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND REGULATIONS.
  - 1.2. SOURCE OF BASE INFORMATION PROVIDED IS ASSUMED TO BE CORRECT. IF SITE DISCREPANCIES ARE PRESENT, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY. IF CONTRACTOR CONTINUES WORK WITHOUT THE PROPER NOTIFICATION, CONTRACTOR DOES SO AT HIS OWN RISK.
  - 1.3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS DESCRIBED HEREIN.
  - 1.4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUB-CONTRACTORS AS REQUIRED TO COMPLETE THE WORK OF THIS PROJECT.
  - 1.5. CONTRACTOR SHALL VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
  - 1.6. CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC." AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
  - 1.7. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. THE LOCATION OF EXISTING UTILITIES OR SITE FEATURES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT AND THE OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE LANDSCAPE ARCHITECT AND THE OWNER.
  - 1.8. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, WATER, SANITARY SEWER, POWER, NATURAL GAS, TELEPHONE AND CABLE TV COMPANIES.
  - 1.9. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
  - 1.10. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND. IF NECESSARY, THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER.
  - 1.11. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS, THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.
  - 1.12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS.
2. **PRE-CONSTRUCTION RESPONSIBILITY**
  - 2.1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE LANDSCAPE ARCHITECT, ANY OTHER PERTINENT PARTIES AND HIMSELF.
  - 2.2. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES ONSITE. LOCATION TO BE DETERMINED BY THE OWNER. JANITORIAL SERVICES SHALL BE PROVIDED BY CONTRACTOR THROUGHOUT THE DURATION OF PROJECT.
  - 2.3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE AN EXISTING CONDITIONS VIDEO RECORDING AND VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
  - 2.4. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
  - 2.5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR THE FIELD LOCATIONS AND FOR ANY TREES PROPOSED FOR RELOCATION. THIS SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON CONSTRUCTION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF TREES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
  - 2.6. CONTRACTOR SHALL VERIFY LIMITS OF CONSTRUCTION AS NOTED ON THE PLANS. ANY WORK PERFORMED OUTSIDE OF THE AGREED UPON LIMITS OF CONSTRUCTION SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
3. **SITE DEMOLITION**
  - 3.1. ITEMS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLAN(S). REMOVE DESIGNATED ITEMS SHOWN ON THE PLAN TO THE FULL DEPTH OF THEIR CONSTRUCTION UNLESS OTHERWISE NOTED.
  - 3.2. ALL HARDCAPE DESIGNATED FOR REMOVAL SHALL BE SAW CUT, LEAVING UNIFORM EDGES TO THE GREATEST EXTENT POSSIBLE. MATERIAL EDGES TO REMAIN SHALL BE SHORED UP AND PROTECTED DURING CONSTRUCTION TO PRESERVE EDGE INTACT. REPAIRS TO DAMAGED EDGES SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - 3.3. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS NOTED ON THE PLANS OR APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.
  - 3.4. SALVAGE EXISTING MATERIALS AS INDICATED ON THE PLANS. SALVAGED MATERIALS SHALL BE HANDLED WITH CARE AND STORED ON-SITE OR AS DIRECTED BY OWNER. CLEAN ALL DEBRIS AND CONSTRUCTION MATERIAL FROM SALVAGED ITEMS; REUSE AS DIRECTED BY OWNER'S REPRESENTATIVE.
  - 3.5. REMOVE DEMOLISHED MATERIALS FROM SITE AND DISPOSE OF AS REQUIRED BY LOCAL, STATE OR FEDERAL LAWS.
  - 3.6. CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, COASTAL DUNE SYSTEMS AND PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
  - 3.7. ALL IRRIGATION IN DEMOLITION AREA TO BE CAPPED AND ADJUSTED AS NECESSARY TO ENSURE OVERALL SYSTEM IS NOT AFFECTED.
4. **TREE PRESERVATION**
  - 4.1. ALL TREES TO BE PRESERVED AS INDICATED ON THE TREE DISPOSITION PLAN SHALL BE PROTECTED BY A TREE PROTECTION BARRICADE, UNLESS OTHERWISE NOTED ON PLAN.
  - 4.2. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND THE DRIP LINE OF EXISTING TREES TO BE PRESERVED IN PLACE, AS SHOWN ON PLAN. PRESERVATION BARRICADES SHALL BE LEFT IN PLACE THROUGHOUT DURING ALL PHASES OF CONSTRUCTION.
  - 4.3. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO PLANS FOR TREE PRESERVATION BARRICADE FENCING DETAIL.
  - 4.4. IF EXCAVATION IN THE VICINITY OF A PROTECTED TREE IS REQUIRED, CONTRACTOR SHALL ROOT PRUNE TREES, UNDER THE SUPERVISION OF A CERTIFIED ARBORIST IN ACCORDANCE TO THE FOLLOWING CONDITIONS:
    - 4.4.1. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO CONSTRUCTION. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER FOR 2 TO 3 DAYS PRIOR TO ROOT PRUNING. SEE BELOW FOR RELOCATION TIMELINE.
      1. PROVIDE TEMPORARY IRRIGATION FOR EACH TREE THROUGHOUT THE DURATION OF CONSTRUCTION.
      2. ROOT PRUNE TREES, SHOWN ON PLAN IN AREAS WHERE ROOTS WILL CONFLICT WITH CONSTRUCTION ACTIVITY. PRUNING OF ROOTS SHOULD BE DONE IN A MANNER TO PRESERVE THE GREATEST AMOUNT OF THE ROOT BASE AS POSSIBLE.
      3. BACKFILL TRENCH WITH PLANTING SOIL.
      4. FERTILIZE WITHIN THE ROOT ZONE (SEE BELOW).
    - 4.4.2. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH AROUND THE TREE IN AREAS WHERE PROPOSED SITE WORK WILL BE PERFORMED. TRENCHING SHALL BE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8".
    - 4.4.3. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THOROUGHLY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.
  - 4.5. THE CONTRACTOR SHALL FIELD STAKE THE LIMIT OF ROOT PRUNING. LIMITS OF ROOT PRUNING SHALL BE ANALYZED BY

5. **PLANTING SOIL**
  - 5.1. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
  - 5.2. ALL TREES AND SHRUBS SHALL BE PLANTED WITH A MINIMUM OF 6" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
  - 5.3. MINIMUM TOPSOIL SHALL BE 2" FOR SODDED GRASS AREAS.
  - 5.4. PLANTING SOIL MIX SHALL BE A WEED FREE MIX AS FOLLOWS:
    - 5.4.1. TREES: 40% SAND, 40% MUCK
    - 5.4.2. PALMS: 80% SAND & 20% MUCK
    - 5.4.3. TURF: 80% SAND, 20% MUCK
6. **LANDSCAPE PLANTING**
  - 6.1. THIS PLAN HAS BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES.
  - 6.2. THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
  - 6.3. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
  - 6.4. ALL PLANT MATERIAL SHALL BE TRUE TO THE BOTANICAL NAME, GENUS, SPECIES AND/OR HYBRID DESIGNATION.
  - 6.5. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES (HEIGHT & SPREAD) AS SPECIFIED IN THE PLANT LIST. CONTAINER SIZE IS FOR REFERENCE PURPOSES ONLY. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE MINIMUM SIZES AT INSTALLATION, AS SPECIFIED IN THE PLANT LIST.
  - 6.6. QUANTITIES LISTED ON THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.
  - 6.7. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE.
  - 6.8. ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND/OR GOVERNING MUNICIPALITY.
  - 6.9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS.
  - 6.10. AFTER FINAL GRADE, LANDSCAPE AREAS ARE TO BE RAKED TO A DEPTH OF 6". ALL ROCK AND FOREIGN INORGANIC MATERIALS SHALL BE REMOVED AND DISPOSED OF PROPERLY OFF-SITE.
  - 6.11. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT EXISTING TREES, DAMAGE UTILITIES OR OTHER IMPROVEMENTS.
  - 6.12. ALL PLANTING BEDS IN OPEN AREAS AND AROUND BUILDING FOUNDATIONS SHALL BE EXCAVATED TO A DEPTH OF TWENTY-FOUR INCHES (24") AND BACK FILLED WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEIOUS MATERIAL.
  - 6.13. ALL PLANTING BEDS IN MEDIANS, HARDCAPE AREAS OR AREAS ENCOMPASSED BY IMPERVIOUS MATERIAL SHALL BE EXCAVATED TO A DEPTH OF THIRTY-SIX INCHES (36") OR UNTIL NATIVE SOILS ENCOUNTERED TO ENSURE DRAINAGE. BACK FILL WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEIOUS MATERIAL.
  - 6.14. EXCAVATE PLANTING PITS TO A DEPTH SO THAT THE TRUNK FLARE AND FIRST ORDER LATERAL ROOT(S) WILL BE PLANTED AT FINISH GRADE OR SLIGHTLY HIGHER. ADVENTITIOUS ROOTS ARE NOT CONSIDERED FIRST ORDER ROOTS.
  - 6.15. BURLAP, SYNTHETIC STRING, CORDS AND/OR LIFTING ROPES SHALL BE REMOVED FROM THE ROOTBALLS BEFORE ANY TREES ARE PLANTED. THE TOP 1/3RD OF BURLAP MUST BE REMOVED FROM THE TOP OF THE ROOTBALLS. THE TOP 1/3RD OF WIRE BASKETS SHALL BE COMPLETELY REMOVED AND THE BOTTOM 2/3RDS SHALL BE CUT BEFORE THE TREES ARE INSTALLED.
  - 6.16. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED.
  - 6.17. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.
  - 6.18. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED, BROKEN OR OTHERWISE DAMAGED.
  - 6.19. ALL TREES SPECIFIED AS FIELD GROWN OR B&B TREES SHALL BE ROOT-PRUNED AT THE NURSERY A MINIMUM OF (8) WEEKS PRIOR TO PLANTING.
  - 6.20. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS SHALL BE MAINTAINED TO PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.
  - 6.21. NO CANOPY TREES SHALL BE PLANTED WITHIN 12 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.
  - 6.22. GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING.
  - 6.23. TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE 8' IN ALL PEDESTRIAN AREAS.
  - 6.24. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT.
  - 6.25. CONTRACTOR SHALL REMOVE ALL NURSERY STAKES, CONDUIT, FLAGGING AND NURSERY TAPE PRIOR TO STAKING.
  - 6.26. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT/WARRANTY PERIOD.
  - 6.27. TREES THAT CANNOT STAND WITHOUT THE SUPPORT OF STAKES AND/OR GUYS SHALL BE REJECTED.
7. **TURF GRASSES**
  - 7.1. ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKWAYS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. REFER TO PLANTING SCHEDULE FOR ESTIMATED QUANTITY AND SPECIES.
8. **MULCH & FERTILIZER**
  - 8.1. ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH MULCH SHALL BE SHREDDED GRADE "A" EUCALYPTUS OR MELALEUCA MULCH, MANUFACTURED BY ACTION NURSERY PRODUCTS, INC., FORT MYERS, FL 33911, OR APPROVED EQUAL.
  - 8.2. INDIVIDUAL TREES PLANTED IN LAWN AREAS SHALL BE MULCHED WITH A MINIMUM 3" DIAMETER MULCH RING.
  - 8.3. MULCH SHALL NOT BE INSTALLED WITHIN 3" OF TREE TRUNKS.
  - 8.4. FERTILIZER SHALL CONFORM AS FOLLOWS:
    - A. FERTILIZER CONTENT SHALL CONFORM TO THE FOLLOWING
 

CONSTITUENT	PERCENT	PRESENT BY WEIGHT
NITROGEN (N)	10	(50PERCENT IN SLOW RELEASE FORM)
PHOSPHORUS (P)	5	-----
POTASSIUM (K)	8	(50 PERCENT IN SLOW RELEASE FORM)

 (A) 50 PERCENT OF NITROGEN SHALL BE DERIVED FROM NATURAL ORGANIC SOURCE OF UREAFORM. 50 PERCENT OF NITROGEN SHALL BE DERIVED FROM SLOW RELEASE NITROGEN.
    - (B) AVAILABLE PHOSPHORUS SHALL BE DERIVED FROM SUPERPHOSPHATE, BONE MEAL, OR TANKAGE.
    - (C) POTASSIUM SHALL BE DERIVED FROM SULFUR-COATED POTASSIUM. 50 PERCENT OF POTASSIUM SHALL BE DERIVED FROM SLOW RELEASE POTASSIUM.
  - B. FERTILIZER SHALL BE DELIVERED IN MANUFACTURER'S STANDARD CONTAINER PRINTED WITH MANUFACTURER'S NAME, MATERIAL WEIGHT AND GUARANTEED ANALYSIS.
  - C. CONTROLLED-RELEASE FERTILIZER SHALL BE EQUAL TO THE FOLLOWING:
 

PRODUCT	MANUFACTURER
PALM MIX AND GENERAL FERTILIZER	ATLANTIC F.E.C. - 18375 S.W. 240 STREET HOMESTEAD, FL 33031

AGRIFORM 20-10-5 PLANTING TABLES    SIERRA CHEMICAL CO., MILPITAS, CA 95035.

1. **WATERING**
  - 1.1. ALL LANDSCAPED AREAS WILL BE IRRIGATED BY AN UNDERGROUND, AUTOMATIC, RUST-FREE IRRIGATION SYSTEM PROVIDING 100% COVERAGE AND 50% SPRAY OVERLAP. THE SYSTEM SHALL BE MAINTAINED IN GOOD WORKING ORDER AND DESIGNED TO MINIMIZE WATER ON IMPERVIOUS SERVICES AND NOT OVERSPRAY WALKWAYS. A RAIN SENSOR DEVICE SHALL BE INSTALLED TO OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED.
  - 1.2. ALL PLANT MATERIAL SHALL BE WATERED AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE THE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND THE LANDSCAPE IS TURNED OVER TO THE OWNER.
2. **PROJECT CLOSOUT**
  - 2.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
  - 2.2. THE CONTRACTOR SHALL RESTORE, REPLACE OR AS DIRECTED BY THE LANDSCAPE ARCHITECT, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE WORK OF THE CONTRACTOR, HIS EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUB-CONTRACTORS. THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT OF THE EXISTING ADJACENT AREAS. THE RESTORATION WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
  - 2.3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK. THESE AREAS SHALL BE KEPT IN A CLEAN AND NEAT CONDITION.
  - 2.4. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
  - 2.5. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS INCLUDING PRODUCT/EQUIPMENT AS SPECIFIED OR REVISED DURING THE SHOP DRAWING SUBMITTAL PROCESS. AS-BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
3. **GUARANTEE**
  - 3.1. ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION.
  - 3.2. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 90 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. REPLACEMENT MATERIAL SHALL BE REPLACED IN KIND AS IT RELATES TO SPECIES, QUANTITY AND SIZE.
  - 3.3. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 74 MPH AS DETERMINED BY THE NATIONAL HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

## PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS	
<b>TREES</b>									
	BA	6	Lignum Vitae	Bulnesia arborea	FG	14' - 16' HT, 4" CAL	Yes		
<b>SHRUB AREAS</b>									
	CAM	1,912	Fukien Tea	Carmona microphylla	7 gal		No	24" o.c.	DENSLEY FOLIATED
	ILV	3,919	Yaupon Holly	Ilex vomitoria	3 gal		Yes	14" o.c.	DENSLEY FOLIATED
	PER	1,940	See Perennial Mix Chart	Perennial Mix	3 gal		No	24" o.c.	PHILLIP VIOLET AFRICAN IRIS SCARLET SAGE WILD ALAMANDA WHITE GRAFFITI ASIAN SNOW JASMINE
	SAI	240	Indigo Spires Sage	Salvia x Indigo Series	3 gal		No	24" o.c.	
<b>GROUND COVERS</b>									
	BP	5,541	Purple Prince Coral Creeper	Barleria repens 'Purple Prince'	1 gal	3"-4" HT	No		
<b>SOD</b>									
	ZXC	22,604 sf	CitraZoy® Zoysia	Zoysia x 'CitraZoy'	Sod				

**cma**  
chen moore and associates

500 West Cypress Creek Road  
Suite 600  
Ft. Lauderdale, FL 33309  
954.730.0707  
www.chenmoore.com

**REGISTRATION**  
ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
DATE: 1/23/2025



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**CLIENT**  
**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

**PROJECT INFORMATION**

**ROYAL POINCIANA WAY**

**PROJECT NUMBER**  
24-0431.00060

**CLIENT PROJECT NUMBER**  
PO 240844

**VERIFY SCALES**  
0 \_\_\_\_\_ 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**REVISIONS**

**DATE OF ISSUE**  
1/17/25

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ESF/EDH

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ESF/EDH

**CHECKED BY**  
ESF/EDH

**DRAWING TITLE**  
**LANDSCAPE SPECIFICATIONS & PLANT SCHEDULE**

**DRAWING NUMBER**  
**LP-3**  
11 OF 26



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West Palm Beach, FL 33401  
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PROJECT INFORMATION

**ROYAL POINCIANA WAY**

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0 1" = 10'

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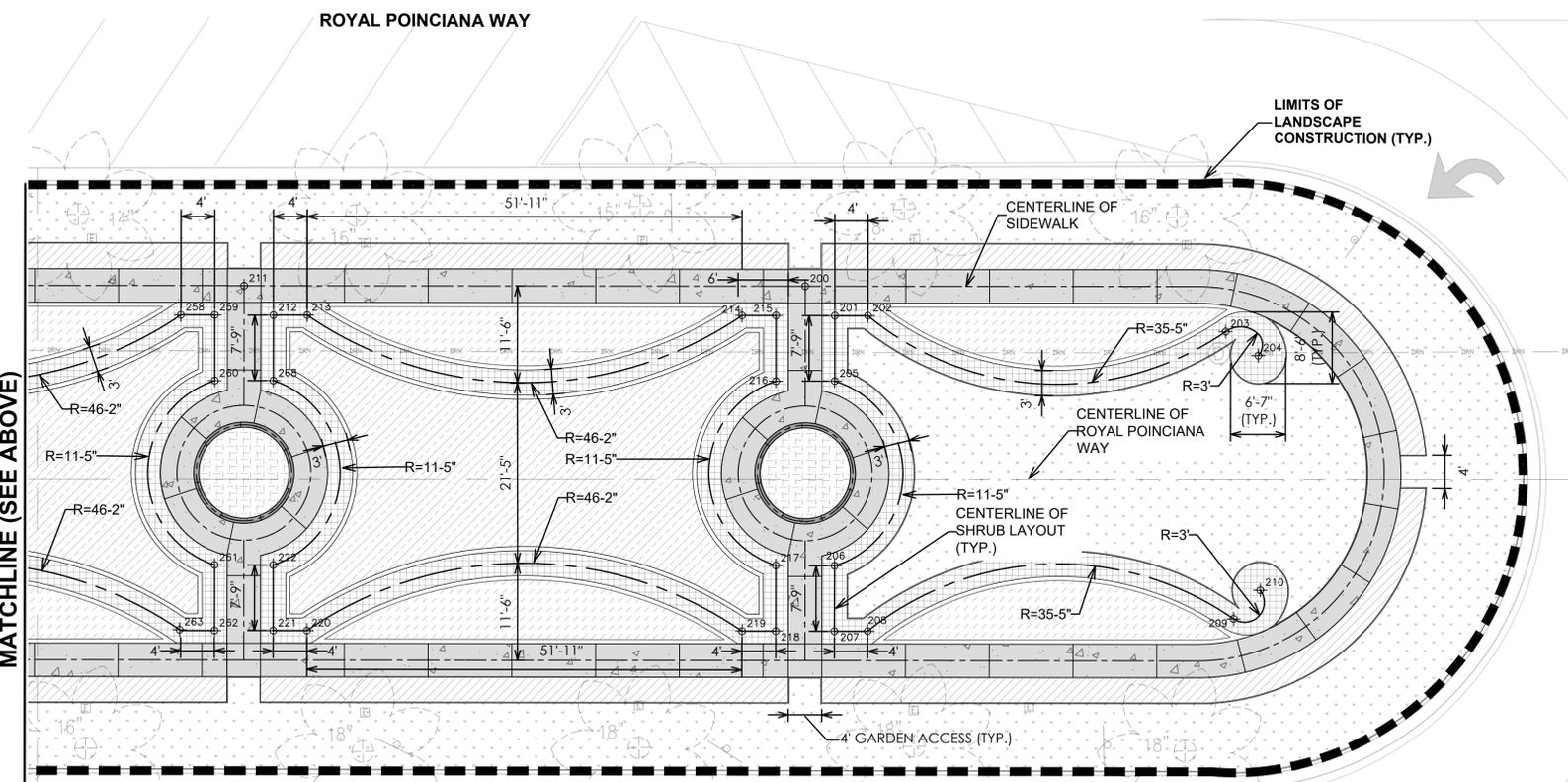
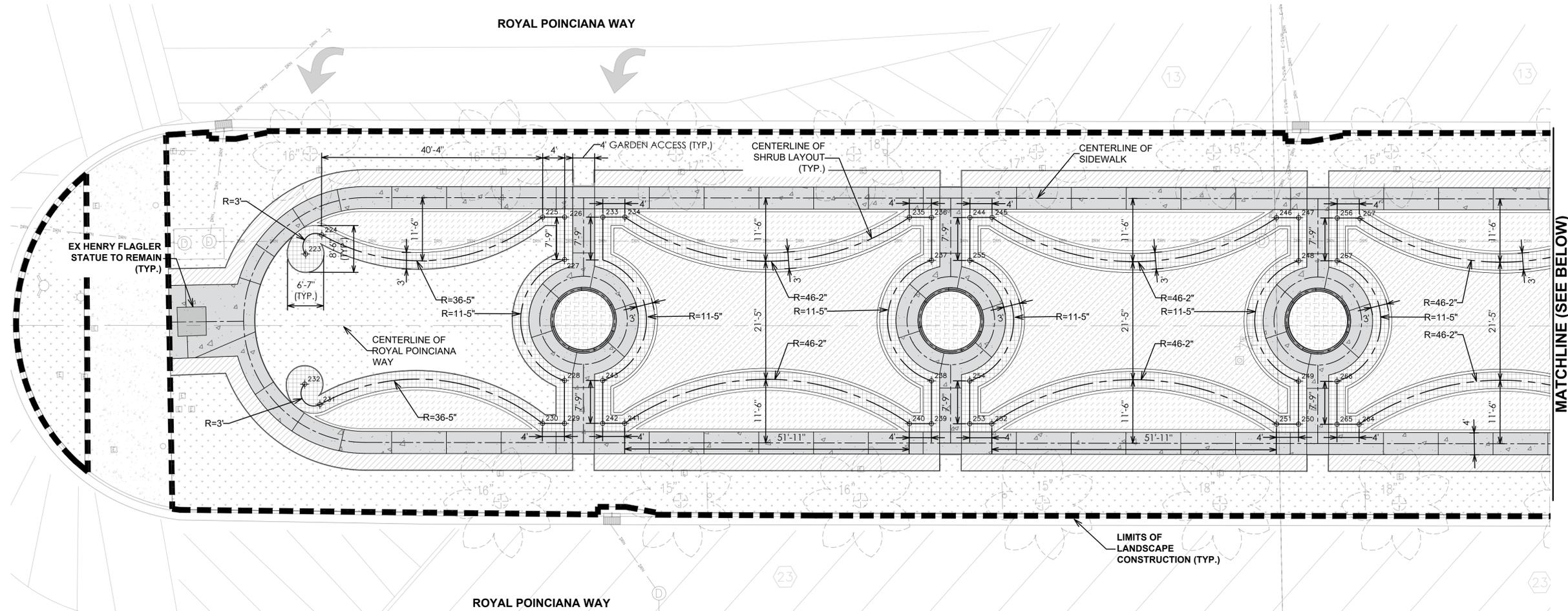
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**WEST MEDIAN LANDSCAPE LAYOUT PLAN**

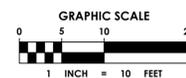
DRAWING NUMBER

**LP-4**



**TYPICAL LANDSCAPE PLANTING LAYOUT (WEST MEDIAN)**

Scale: 1"=10'-0"



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

**GENERAL NOTE:**

1. ALL DIMENSIONS & NORTHERN/EASTING POINTS SHOWN ON PLANS ARE NOT FINAL. CHANGES MAY OCCUR INFIELD THAT REQUIRE ADJUSTMENTS OR INFIELD LAYOUT TO GET CORRECT PORTIONS.
2. REFER TO SHEET LP-6 FOR NORTHERN AND EASTING POINTS SCHEDULE.



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Project Manager:  
Mike Roach, PE

PROJECT INFORMATION

**ROYAL POINCIANA WAY**

PROJECT NUMBER  
24-0431.00060

CLIENT PROJECT NUMBER  
PO 240844

VERIFY SCALES  
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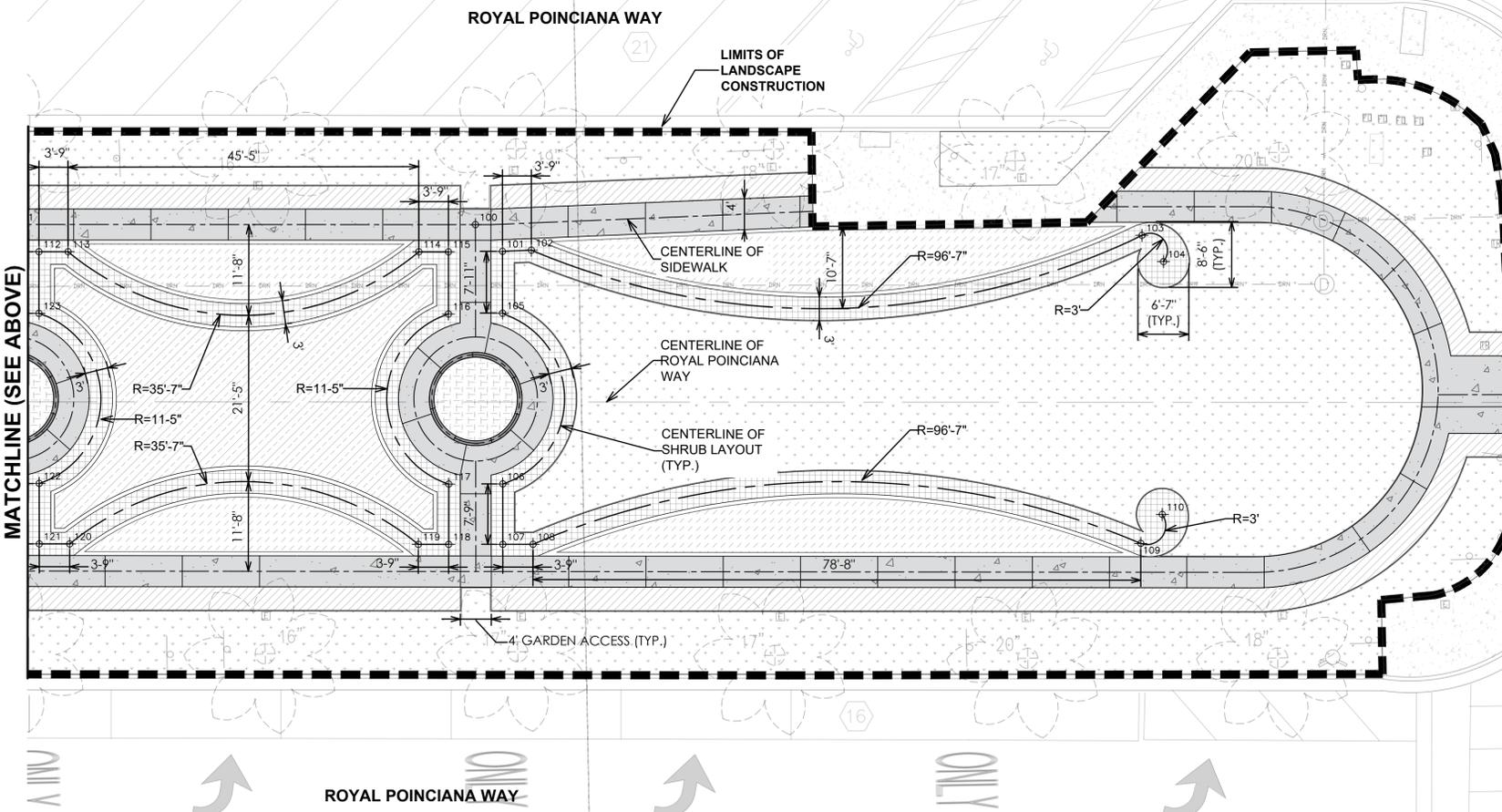
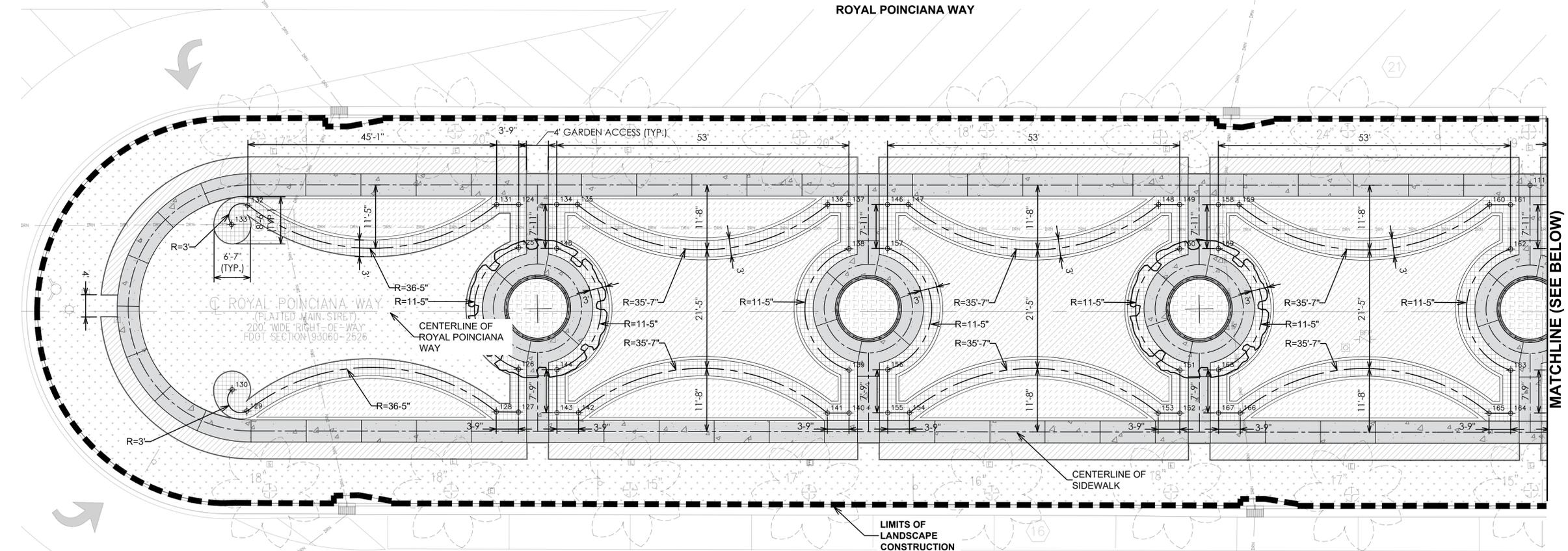
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**EAST MEDIAN  
LANDSCAPE  
LAYOUT PLAN**

DRAWING NUMBER

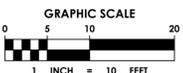
**LP-5**  
13 OF 26

ROYAL POINCIANA WAY



**TYPICAL LANDSCAPE PLANTING LAYOUT (EAST MEDIAN)**

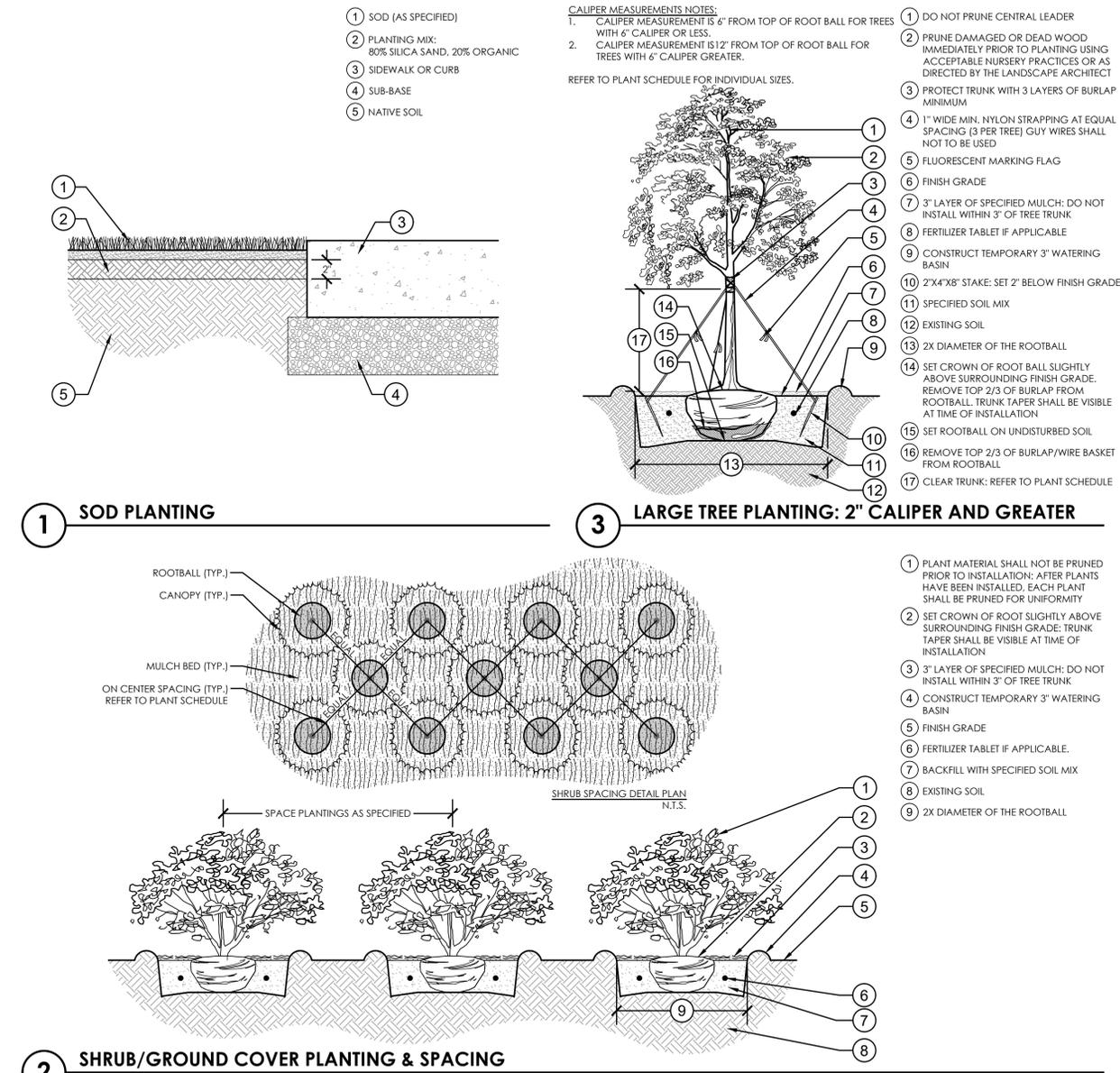
Scale: 1"=10'-0"



**NORTHING/EASTING POINT SCHEDULE**

POINT	DESCRIPTION	NORTHING	EASTING	POINT	DESCRIPTION	NORTHING	EASTING
100	East Median	N 867940.9242	E 970087.5957	208	West Median	N 867908.9631	E 969628.2933
101		N 867937.4153	E 970091.0331	209		N 867909.5966	E 969672.0042
102		N 867937.4985	E 970094.7682	210		N 867912.9242	E 969675.2438
103		N 867937.9049	E 970173.8129	211		N 867951.3900	E 969554.6512
104		N 867934.4651	E 970176.5376	212		N 867947.8313	E 969558.0779
105		N 867929.4534	E 970090.8952	213		N 867947.7615	E 969562.1105
106		N 867907.4577	E 970090.5097	214		N 867946.7211	E 969614.0017
107		N 867899.6849	E 970090.3679	215		N 867946.6395	E 969618.0578
108		N 867899.6079	E 970094.5885	216		N 867938.8458	E 969617.9084
109		N 867898.2234	E 970172.9122	217		N 867916.9724	E 969617.4779
110	N 867901.9009	E 970175.7595	218	N 867909.1783	E 969617.3217		
111	N 867942.0803	E 970027.6382	219	N 867909.2557	E 969613.2922		
112	N 867938.5134	E 970031.0617	220	N 867910.3104	E 969561.3668		
113	N 867938.4406	E 970034.8303	221	N 867910.3844	E 969557.3316		
114	N 867937.5630	E 970080.2150	222	N 867918.1667	E 969557.4871		
115	N 867937.4876	E 970084.0410	223	N 867946.2185	E 969302.7546		
116	N 867929.4843	E 970083.8955	224	N 867949.6310	E 969305.7803		
117	N 867907.5709	E 970083.5086	225	N 867952.1091	E 969346.1341		
118	N 867899.8100	E 970083.3528	226	N 867952.0294	E 969350.1436		
119	N 867899.8860	E 970079.4234	227	N 867944.3138	E 969349.9898		
120	N 867900.7959	E 970034.3161	228	N 867922.3490	E 969349.5545		
121	N 867900.8747	E 970030.3882	229	N 867914.5715	E 969349.4004		
122	N 867908.6618	E 970030.5232	230	N 867914.6549	E 969345.4088		
123	N 867930.5715	E 970030.9082	231	N 867918.8669	E 969304.8550		
124	N 867942.0882	E 969844.1766	232	N 867922.6053	E 969302.1405		
125	N 867934.3078	E 969844.0224	233	N 867951.8922	E 969357.1097		
126	N 867912.3517	E 969843.5882	234	N 867951.8224	E 969361.1424		
127	N 867904.6048	E 969843.4280	235	N 867950.7821	E 969413.0335		
128	N 867904.7181	E 969839.4005	236	N 867950.7004	E 969417.0897		
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131	N 867942.1676	E 969840.1718	239	N 867913.2392	E 969416.3535		
132	N 867942.8981	E 969795.0612	240	N 867913.3166	E 969412.3241		
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134	N 867941.9845	E 969851.0774	242	N 867914.4453	E 969356.3634		
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136	N 867941.0341	E 969900.2307	244	N 867950.5441	E 969424.0953		
137	N 867940.9587	E 969904.0567	245	N 867950.4743	E 969428.1280		
138	N 867932.9554	E 969903.9111	246	N 867949.4339	E 969480.0191		
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145	N 867934.0426	E 969850.9239	253	N 867913.0972	E 969423.3491		
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155	N 867903.1944	E 969910.3912	263	N 867910.7176	E 969546.1546		
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167	N 867902.0256	E 969970.3853					
168	N 867909.8126	E 969970.5204					
169	N 867931.7224	E 969970.9054					
200	West Median	N 867950.0686	E 969621.6314				
201		N 867946.4975	E 969625.0882				
202		N 867946.4166	E 969629.0480				
203		N 867943.7181	E 969671.6982				
204		N 867940.7941	E 969675.5485				
205		N 867938.7276	E 969624.9294				
206		N 867916.7988	E 969624.5028				
207		N 867909.0411	E 969624.3221				

**LANDSCAPE DETAILS:**



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**cma**  
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500 West Cypress Creek Road  
Suite 600  
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**REGISTRATION**  
ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
DATE: 1/23/2025

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**CLIENT**  
**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

**PROJECT INFORMATION**  
**ROYAL POINCIANA WAY**

**PROJECT NUMBER**  
24-0431.00060

**CLIENT PROJECT NUMBER**  
PO 240844

**VERIFY SCALES**  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**REVISIONS**

**DATE OF ISSUE**  
1/17/25

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ESF/EDH

**DRAWN BY**  
ESF/EDH

**CHECKED BY**  
ESF/EDH

**DRAWING TITLE**

**NOTES & LANDSCAPE DETAILS**

**DRAWING NUMBER**  
**LP-6**  
14 OF 26

Plot Date: 1/23/2025 10:15:03 AM Username: eferguson Layout Name: LP-6  
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Filename: 24-0431.00060 - Landscape Plan.dwg

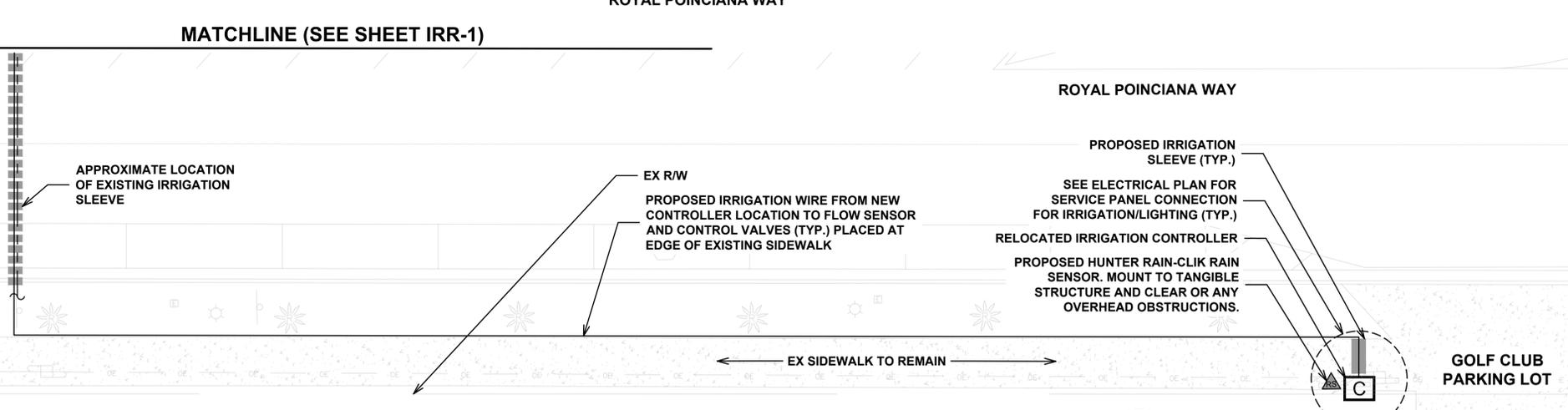
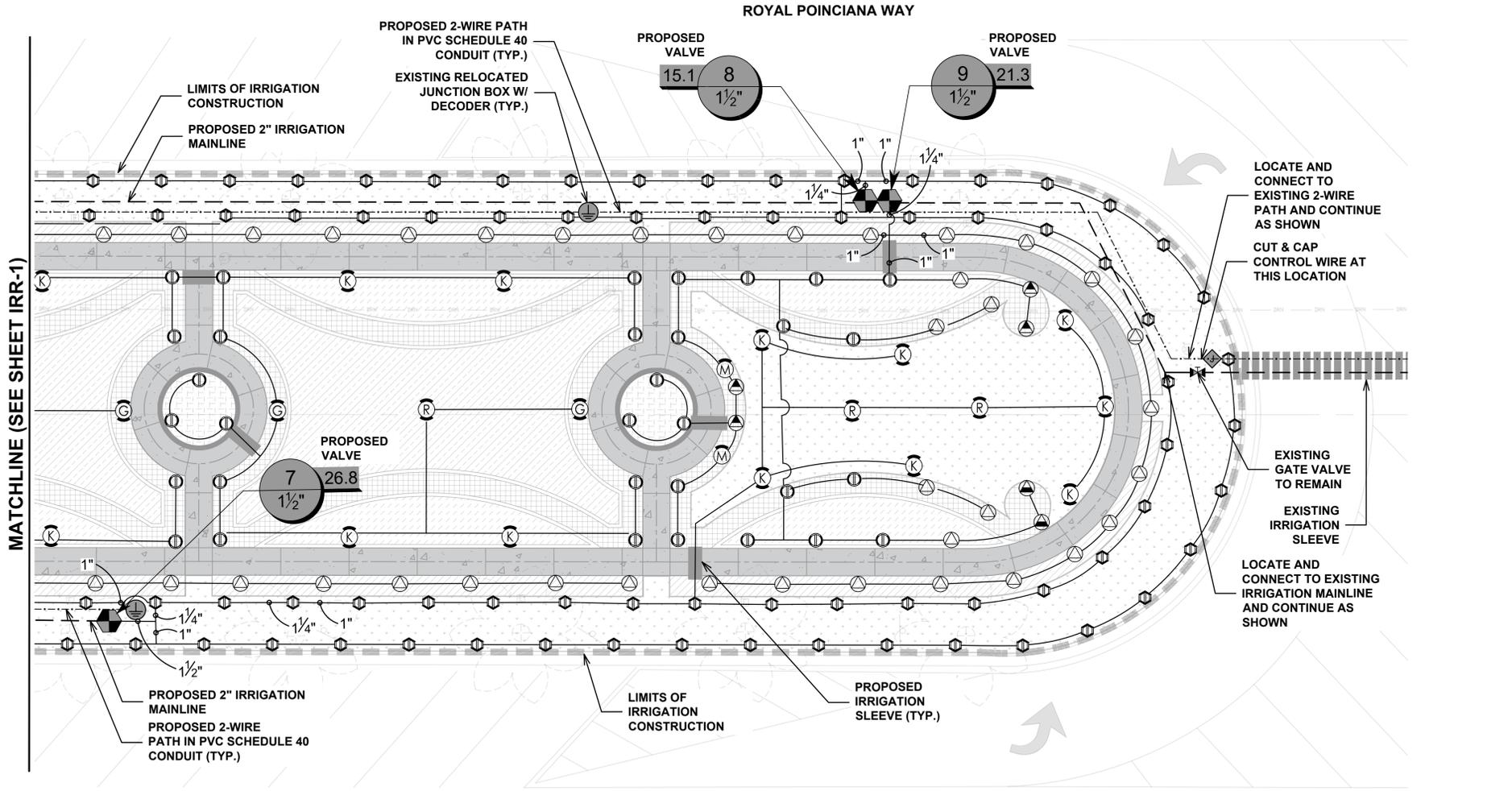


# IRRIGATION SCHEDULE: WEST MEDIAN

## SYMBOL MANUFACTURER/MODEL/DESCRIPTION

	Hunter MP Strip PROS-06-PRS40-CV LST Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.
	Hunter MP Strip PROS-06-PRS40-CV RST Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.
	Hunter MP1000 PROS-06-PRS40-CV M Turf Rotator, 6" (15.24 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
	Hunter MP2000 PROS-06-PRS40-CV K Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter MP2000 PROS-06-PRS40-CV R Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter MP800SR PROS-06-PRS40-ADJ Turf Rotator, 6.0" pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360)
	Hunter MP Strip PROS-12-PRS40-CV LST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP Strip PROS-12-PRS40-CV RST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP Strip PROS-12-PRS40-CV SST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP1000 PROS-12-PRS40-CV M Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV G Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV K Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV R Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP800SR PROS-12-PRS40-CV ADJ Shrub Rotator, 12.0" pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, OR = Orange adj arc 90 to 210.

	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: HDPE PE4710 DR 11 4" pipe sleeve for irrigation mainline, lateral lines, and wire conduit.
	Pipe Sleeve: PVC Schedule 40 2-wire path, 12 gauge, twisted pair. Color coded per valve schedule.
	Valve Callout Valve Number Valve Flow Valve Size



## SYMBOL MANUFACTURER/MODEL/DESCRIPTION

	Existing Remote Control Valve Existing remote control valve to remain.
	Hunter ICV-G-FS with ICD-100 Existing remote control valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with single station decoder.
	Hunter HQ-33DRC Existing Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 3/4" NPT inlet, 2-piece body.
	Existing Leemco LGT2SS304X Stainless steel gate valve.
	Existing Zum 950XL Double Check Valve Assembly
	Relocated Existing Hunter A2C-75D-M 2-Wire Decoder Controller with 75 station capacity, with PED-SS stainless pedestal.
	Existing Junction Box Standard size valve box with wire splice.
	Existing Junction Box with Decoder Grounding 10" round valve box with 5/8" x 8" copper grounding rod, 10 ohms resistance or less. Install minimum of 8' from irrigation mainline, decoders, or remote control valves.
	Hunter RAIN-CLIK Rain Sensor, with conduit installation, mount as noted. Normally closed switch.
	Existing Hunter ICV-G w FS-100-B, ICD-100, ICD-SEN 1" remote control master valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with 1" brass flow sensor and sensor decoder.
	Water Meter 1-1/2" Existing Water Meter per City

**cma**  
chen moore and associates

500 West Cypress Creek Road  
Suite 600  
FL. Lauderdale, FL 33309  
954.730.0707  
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REGISTRATION  
ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
DATE: 1/23/2025



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CLIENT  
**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

PROJECT INFORMATION  
**ROYAL POINCIANA WAY**

PROJECT NUMBER  
24-0431.00060  
CLIENT PROJECT NUMBER

VERIFY SCALES  
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DRAWING TITLE

IRRIGATION PLAN

DRAWING NUMBER  
**IRR-2**  
16 OF 26

Plot Date: 1/23/2025 10:15:18 AM Username: jcooper Layout Name: IRR-2  
Folder Path: V:\Projects\2024\24-0431.00060 - Royal Poinciana Way Median\Design\CAD\Sheets  
Filename: 24-0431.00060 - Irrigation Plan.dwg

GRAPHIC SCALE  
0 5 10 20  
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CLIENT

**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

PROJECT INFORMATION

**ROYAL POINCIANA WAY**

PROJECT NUMBER

24-0431.00060

CLIENT PROJECT NUMBER

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1/17/25

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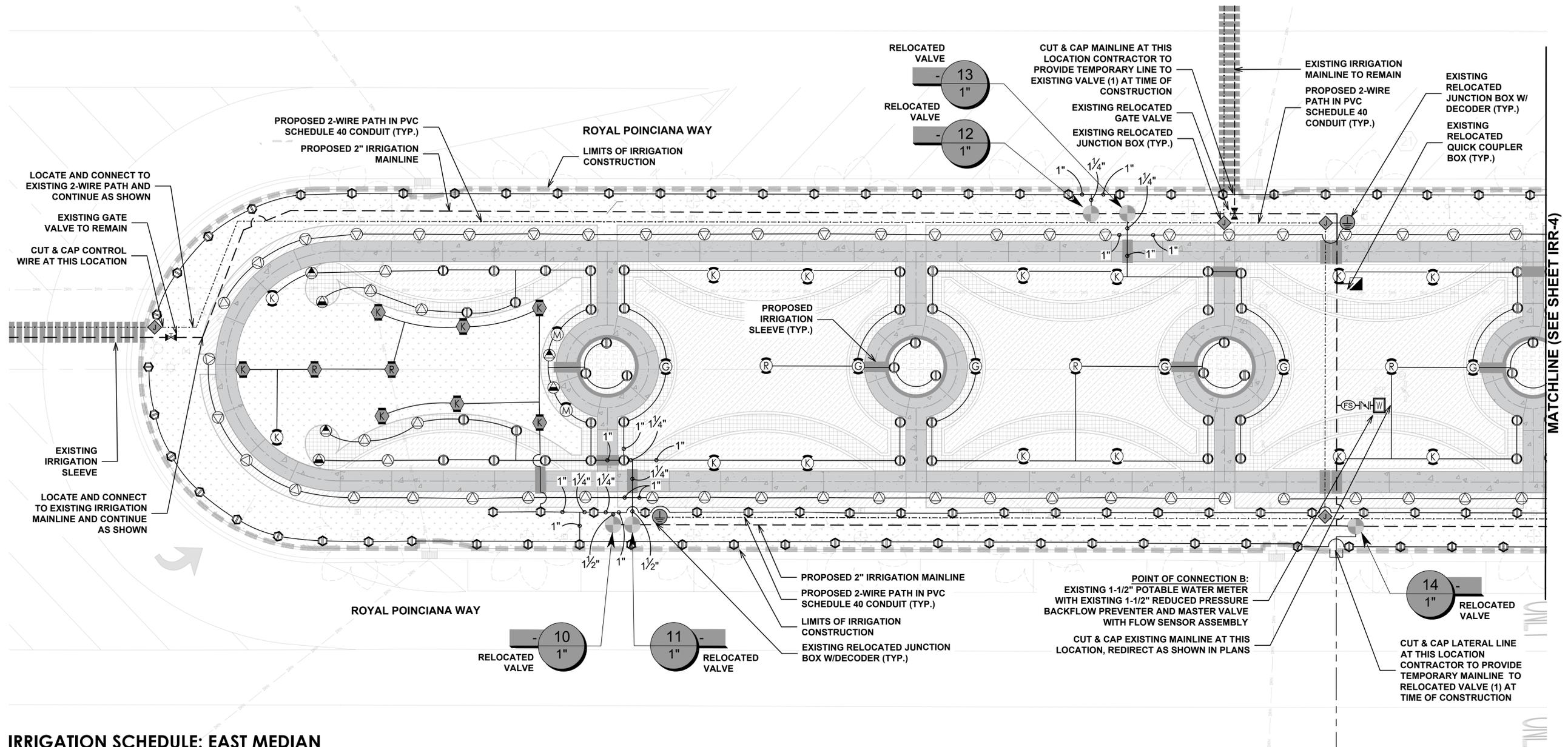
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DRAWING TITLE

IRRIGATION PLAN

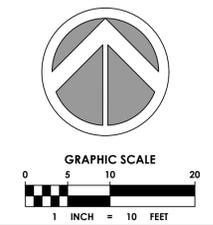
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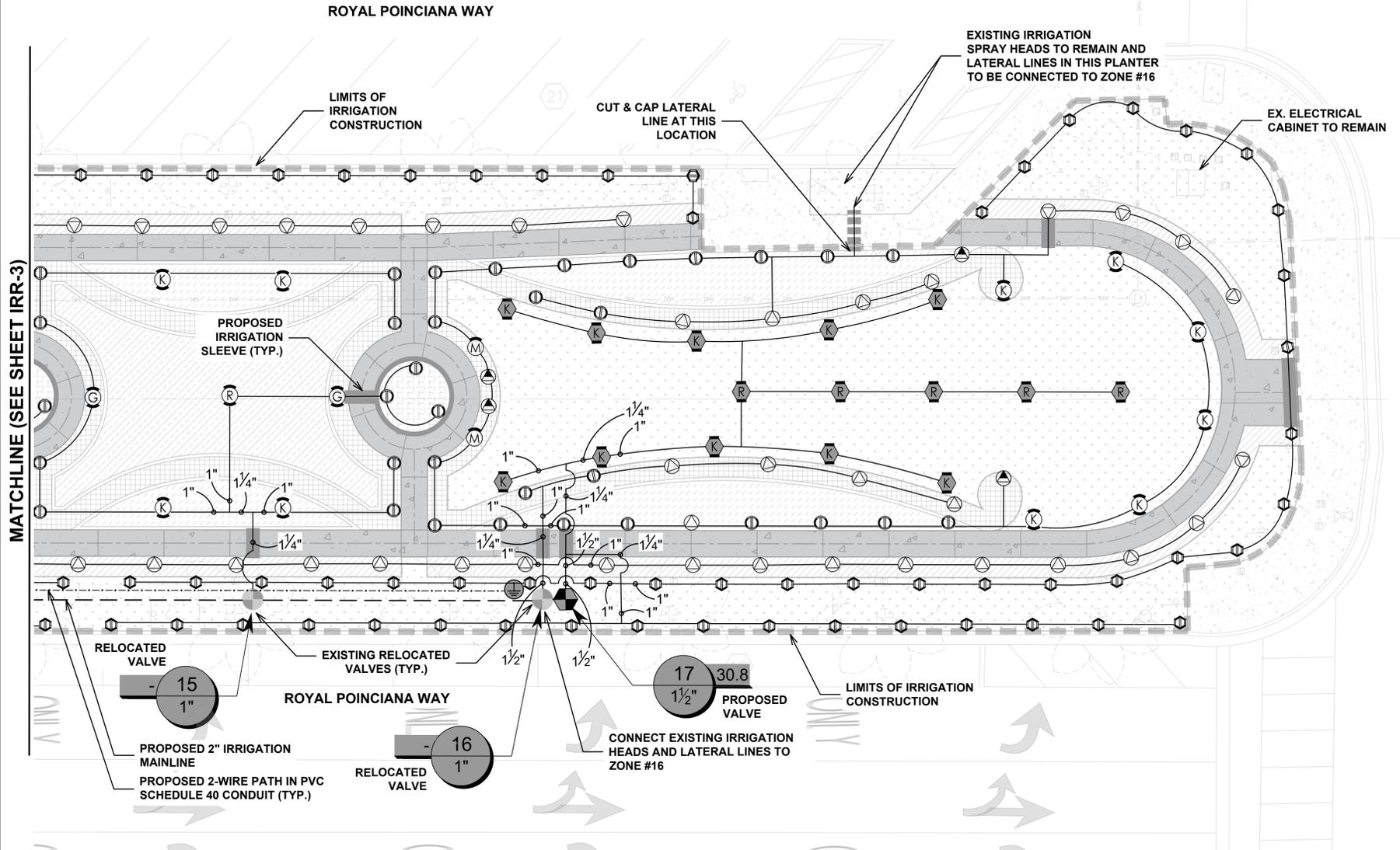


**IRRIGATION SCHEDULE: EAST MEDIAN**

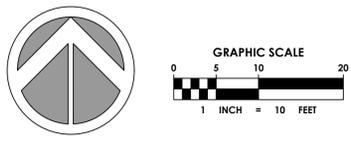
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP2000 PROS-06-PRS40-CV K Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter MP2000 PROS-06-PRS40-CV R Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter MP800SR PROS-06-PRS40-CV ADJ Turf Rotator, 6.0" pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, ADJ=Orange and Gray ( arc 90-210), 360=Lime Green and Gray (arc 360)
	Hunter MP Strip PROS-12-PRS40-CV LST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP Strip PROS-12-PRS40-CV RST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP Strip PROS-12-PRS40-CV SST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP1000 PROS-12-PRS40-CV M Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV G Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV K Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV R Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP800SR PROS-12-PRS40-CV ADJ Shrub Rotator, 12.0" pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, OR = Orange adj arc 90 to 210.
	Hunter ICV-G-FS with ICD-100 Existing remote control valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with single station decoder.
	Hunter HQ-33DRC Existing Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 3/4" NPT inlet, 2-piece body.
	Existing Leemco LG122SS304X Stainless steel gate valve.
	Existing Zurn 950XL Double Check Valve Assembly
	Existing Junction Box Standard size valve box with wire splice.
	Existing Hunter ICV-G w FS-100-B, ICD-100, ICD-SEN 1" remote control master valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with 1" brass flow sensor and sensor decoder.
	Water Meter 1-1/2" Existing Water Meter per City
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: HDPE PE4710 DR 11 4" pipe sleeve for irrigation mainline, lateral lines, and wire conduit.
	Pipe Sleeve: PVC Schedule 40 2-wire path, 12 gauge, twisted pair, Color coded per valve schedule.
	Valve Callout Valve Number Valve Flow Valve Size



Plot Date: 1/23/2025 10:15:24 AM Username: jcooper Layout Name: IRR-4  
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 Filename: 24-0431.00060 - Irrigation Plan.dwg



MATCHLINE (SEE SHEET IRR-3)



**IRRIGATION SCHEDULE: EAST MEDIAN**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP2000 PROS-06-PRS40-CV K Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter MP2000 PROS-06-PRS40-CV R Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter MP800SR PROS-06-PRS40-CV ADJ Turf Rotator, 6.0" pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360)
	Hunter MP Strip PROS-12-PRS40-CV LST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP Strip PROS-12-PRS40-CV RST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP Strip PROS-12-PRS40-CV SST Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.
	Hunter MP1000 PROS-12-PRS40-CV M Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV G Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV K Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP2000 PROS-12-PRS40-CV R Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.
	Hunter MP800SR PROS-12-PRS40-CV ADJ Shrub Rotator, 12.0" pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body, OR = Orange adj arc 90 to 210.
	Existing Remote Control Valve Existing remote control valve to remain.
	Hunter ICV-G-FS with ICD-100 Existing remote control valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with single station decoder.
	Hunter HQ-33DRC Existing Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 3/4" NPT inlet, 2-piece body.
	Existing Leemco LGT22S304X Stainless steel gate valve.
	Existing Zum 950XL Double Check Valve Assembly
	Existing Junction Box Standard size valve box with wire splice.
	Existing Hunter ICV-G w FS-100-B, ICD-100, ICD-SEN 1" remote control master valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with 1" brass flow sensor and sensor decoder.
	Water Meter 1-1/2" Existing Water Meter per City
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: HDPE PE4710 DR 11 4" pipe sleeve for irrigation mainline, lateral lines, and wire conduit.
	Pipe Sleeve: PVC Schedule 40 2-wire path, 12 gauge, twisted pair, Color coded per valve schedule.
	Valve Callout Valve Number Valve Flow Valve Size

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**REGISTRATION**  
 ERIC DOUGLAS HARRISON, RLA  
 REGISTRATION NO. 6667129  
 DATE: 1/23/2025



This seal is only valid on printed copies that are dated with an original of the licensee's signature. Scanned or electronic copies are not considered signed and sealed.

**CLIENT**  
**Town of Palm Beach**  
 Public Works  
 951 Okeechobee Road, Suite A  
 West Palm Beach, FL 33401  
 561.838.5440  
 Project Manager:  
 Mike Roach, PE

**PROJECT INFORMATION**

**ROYAL POINCIANA WAY**

**PROJECT NUMBER**  
 24-0431.00060

**CLIENT PROJECT NUMBER**

**VERIFY SCALES**  
 0 1" 1"  
 IF NOT ONE INCH ON THIS SHEET,  
 ADJUST SCALES ACCORDINGLY

**REVISIONS**

**DATE OF ISSUE**  
 1/17/25

**DESIGNED BY**  
 ESF/EDH

**DRAWN BY**  
 ESF/EDH

**CHECKED BY**  
 ESF/EDH

**DRAWING TITLE**

**IRRIGATION PLAN**

**DRAWING NUMBER**  
**IRR-4**

# IRRIGATION SPECIFICATIONS

## 1. GENERAL

- 1.1. THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO INSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.
- 1.2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
- 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- 1.4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY PROPER CLEARANCE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
- 1.5. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
- 1.6. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.

## 2. SCOPE OF WORK

- 2.1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.
- 2.2. ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.
- 2.3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 2.4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER' AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 2.5. IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
- 2.6. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

## 3. SUBMITTALS

- 3.1. THE CONTRACTOR SHALL PROVIDE FOR APPROVAL PRIOR TO INSTALLATION, MANUFACTURER'S PRODUCT DESCRIPTION SHEETS/SPECIFICATIONS FOR ALL MAJOR COMPONENTS OF THE IRRIGATION SYSTEM. MODEL NUMBERS SHALL BE HIGHLIGHTED OR CIRCLED.
- 3.2. NO SUBSTITUTIONS OR DEVIATIONS FROM THE SPECIFIED BRANDS, MODELS, OR SIZES SHALL BE PERMITTED, EXCEPT WITH WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OF RECORD.
- 3.3. ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR PROCEEDS WITH CHANGES AT OWN RISK. DESIGN CHANGES, SUBSTITUTIONS, OR DEVIATIONS NOT APPROVED BY THE LANDSCAPE ARCHITECT OF RECORD WILL RESULT IN REJECTION AND REPLACEMENT OF MATERIALS AT NO ADDITIONAL COST TO THE OWNER.

## 4. POST CONSTRUCTION DOCUMENTATION

### 4.1. DOCUMENTATION:

- 4.1.1. PROVIDE THE MANUFACTURERS' RECOMMENDED OPERATING INSTRUCTIONS FOR ALL MAJOR COMPONENTS INCORPORATED INTO THE IRRIGATION SYSTEM.
- 4.1.2. PROVIDE SYSTEM OPERATION MANUALS, MAINTENANCE SCHEDULES, RECOMMENDED SCHEDULE OF OPERATION INCLUDED AVERAGE APPLICATION RATES WITH SEASONAL ADJUSTMENTS FOR EACH ZONE.
- 4.1.3. PROVIDE ALL REQUIRED TESTING AND INSPECTION CERTIFICATES TO THE OWNER OR OWNER'S REPRESENTATIVE

## 4.2. AS-BUILT DRAWINGS: PROVIDE RECORD DRAWINGS AND PLANS SHOWING ALL CHANGES IN THE DESIGN TO INDICATE THE ACTUAL INSTALLATION AND LOCATION OF ALL EQUIPMENT AND MATERIALS. THE FOLLOWING SPECIFIC ITEMS MUST BE INCLUDED:

- 4.2.1. LOCATION AND SIZE OF MAINLINE PIPING, LATERAL PIPING, AND PIPE SLEEVING.
  - 4.2.2. ISOLATION VALVES
  - 4.2.3. REMOTE CONTROL VALVE LOCATIONS, SIZES, NUMBER, AND AREA OF COVERAGE SHOWN USING DIFFERENT COLORS.
  - 4.2.4. SPLICE BOXES AND LOW VOLTAGE WIRING PATH.
  - 4.2.5. CONTROLLER AND RAIN SHUTOFF DEVICES.
  - 4.2.6. POINT OF CONNECTION INCLUDING THE TYPE OF WATER SOURCE, SIZE, FLOW RATE, AND OPERATING PRESSURE.
  - 4.2.7. DATE AND SCALE.
  - 4.2.8. CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER.
  - 4.2.9. THE AS-BUILT DRAWINGS SHALL BE SIGNED BY A FLORIDA REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER.
- 4.3. CONTRACTOR SHALL FURNISH FIVE EXTRA UNITS OF EACH TYPE OF POPUP SPRAY AND EMITTER THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. INCLUDE TOOLS TO SERVICE THESE PRODUCTS.

## 5. FINAL ACCEPTANCE

- 5.1. FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.
  - 5.1.1. FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS.
  - 5.1.2. COMPLETION AND ACCEPTANCE OF AS-BUILT RECORD DRAWINGS.
  - 5.1.3. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.

## 6. GUARANTEE

- 6.1. FULLY WARRANT THE LANDSCAPE IRRIGATION SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER THE WRITTEN FINAL ACCEPTANCE.
  - 6.2. DURING THE WARRANTY PERIOD, ENFORCE MANUFACTURER'S AND SUPPLIER'S WARRANTIES, MALFUNCTIONS, DEFICIENCIES, BREAKS, DAMAGES, DISREPAIR OR OTHER DISORDERS DUE TO MATERIALS, WORKMANSHIP, OR INSTALLATION BY THE CONTRACTOR AND HIS SUPPLIERS SHALL BE IMMEDIATELY AND PROPERLY CORRECTED.
  - 6.3. REPAIR DAMAGES PROMPTLY WHICH ARE CAUSED BY SYSTEM MALFUNCTION.
7. POINT OF CONNECTION (P.O.C.)
- 7.1. THE POC'S ARE EXISTING 1-1/2" WATER METERS, UTILIZING AN EXISTING MUNICIPAL POTABLE WATER MAIN. THE POC SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 60 GPM AT 60 PSI. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION SYSTEM INSTALLATION.
  - 7.2. ALL EXISTING WATER METERS ARE MAINTAINED BY THE CITY OF WEST PALM BEACH UTILITIES. CONTRACTOR TO PROVIDE COORDINATION AND ANY NECESSARY PERMITTING FOR WORK RELATED TO WATER METERS.
  - 7.3. IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.

## 8. PIPING

- 8.1. MAINLINE PIPE: PVC SCHEDULE 40, NON-GASKETED, SOLVENT WELD, WITH PVC SCHEDULE 40 FITTINGS.
- 8.2. LATERAL PIPE: PVC SCHEDULE 40, NON-GASKETED, SOLVENT WELD, WITH PVC SCHEDULE 40 FITTINGS.
- 8.3. THREADED PIPE: PVC SCHEDULE 80.
- 8.4. PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 12" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.
- 8.5. PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".
- 8.6. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.
- 8.7. CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL JOINT FITTINGS, RESTRAINING COLLARS, THREADED RODS, THRUST BLOCKS, ETC., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES FOR FURTHER DIRECTION.
- 8.8. PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER. OR APPROVED EQUALS.
- 8.9. MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 18" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.
- 8.10. LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 12" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.

## 9. LAYOUT

- 9.1. LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
- 9.2. STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO INSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.
- 9.3. SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS.
- 9.4. SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDSCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL BE INSTALLED FROM A REUSE WATER SYSTEM WITH PURPLE PVC RISERS.
- 9.5. LOCATE VALVES PRIOR TO EXCAVATION. INSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES WITHIN A SPORTS FIELD OR DESIGNATED PLAY AREA.

## 10. ELECTRICAL POWER SUPPLY

- 10.1. ELECTRICAL SUPPLY FOR PROPOSED CONTROLLER IS EXISTING. CONTRACTOR TO REMOVE EXISTING CONTROLLER AND TURN OVER ALL EXISTING EQUIPMENT TO THE TOWN OF PALM BEACH.
- 10.2. ALL ELECTRICAL INSTALLATION TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY AND ALL OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS. POWER FOR THE CONTROLLER SHALL BE 120 VOLT, 20 AMP.

## 11. CONTROL WIRING

- 11.1. IRRIGATION CONTROL WIRE PATH SHALL BE TWISTED PAIR, SOLID-CORE, COLOR-CODED RED/BLUE PAIRS, ENCLOSED IN A COLOR-CODED PE SLEEVE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. WIRING FROM DECODERS TO SOLENOIDS SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.
- 11.2. ALL CONTROL WIRING SHALL BE PLACED IN 1" PVC SCHEDULE 40 GRAY ELECTRICAL CONDUIT. AT TURNS IN DIRECTION UTILIZE JUNCTION BOXES. VALVE AND JUNCTION BOX LOCATIONS MAY BE COMBINED.
- 11.3. TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 32 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M DBY/R CONNECTORS.
- 11.4. NUMBER ALL WIRES USING AN ELECTRICAL BOOK OF NUMBERS ACCORDING TO THE PLANS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.
- 11.5. WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
  - #12 TWISTED PAIR: RED/BLUE
  - #12 COMMON, DECODER TO VALVE: BLACK
  - #12 CONTROL, DECODER TO VALVE: RED

## 12. GROUNDING

- 12.1. CONTRACTOR TO UTILIZE 4" X 96" X 0.06" COPPER GROUNDING PLATES, 5/8" X 10" COPPER CLAD GROUNDING RODS, 'ONE STRIKE' CAD WELLS AT ALL CONNECTION POINTS, #6 BARE COPPER WIRE, AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10 OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION ON A LICENSED ELECTRICAL CONTRACTORS LETTER HEAD SHOWING THE DATE OF THE TEST, CONTROLLER LOCATION, AND TEST RESULTS. EACH CONTROLLER SHALL BE SO GROUNDED AND TESTED.
- 12.2. GROUNDING FOR DECODERS AND 2-WIRE PATH SHALL BE PROVIDED FOR EVERY 400 LINEAR FEET. DECODER GROUNDING SHALL INCLUDE A LINE SURGE PROTECTOR DECODER AND GROUNDING AS DESCRIBED IN 12.1, ABOVE TO ACHIEVE 10 OHMS OR LESS.

## 13. VALVES

- 13.1. SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.
  - 13.2. ADJUST THE FLOW CONTROL ON EACH RCV TO ENSURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.
  - 13.3. USING 3" HIGH NUMBER STENCILS, PAINT THE VALVE NUMBER IN WHITE ON THE LID OF EACH VALVE BOX.
14. EQUIPMENT
- 14.1. BUBBLERS SHALL BE INSTALLED USING SCH 80 NIPPLES AND SHALL BE PLACED AT THE BASE OF TREES FOR LOW LEVEL WATERING.
  - 14.2. ALL POP-UP HEADS AND SHRUB RISERS SHALL BE PRESSURE COMPENSATING. ALL POP-UP HEADS SHALL BE MOUNTED ON FLEX-TYPE SWING JOINTS.
  - 14.3. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND IN ACCORDANCE WITH LOCAL AND STATE LAWS.

## 15. TRENCHING

- 15.1. EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL ON THE DETAIL SHEET.
- 15.2. PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE THE SAME GENUS, SPECIES, AND SIZE OF THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

## 16. INSTALLATION

- 16.1. CUT ALL PIPE SQUARE AND DEBURR. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL, THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDDLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT. FIRST APPLY A THIN LAYER TO THE PIPE, THEN A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING, THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESN'T RECEDE FROM THE FITTING. IF THE PIPE ISNT AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.
- 16.2. PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.

## 17. BACKFILLING

- 17.1. THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRCNCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.

- 17.2. CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS. PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2" ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

## 18. TESTING & FLUSHING

- 18.1. LEAKAGE TESTING
  - 18.1.1. REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 125 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAUGE LOCATIONS; THE GAUGE LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE. WITH THE SAME RESPECTIVE PRESSURES, MONITOR THE GAUGES FOR TWO HOURS.
  - 18.1.2. PVC SOLVENT-WELD PIPE CONNECTIONS SHALL HAVE NO LEAKAGE. GASKETED PIPING SHALL LOSE NO MORE WATER THAN ALLOWED PER THE FLORIDA STATE BUILDING CODE, VOLUME II PLUMBING, PART VI, APPENDIX 'F'. REFER TO THIS SECTION FOR THE FORMULA TO BE USED TO CALCULATE THE MAXIMUM ALLOWABLE WATER LOSS DURING THE TESTING TIME.
  - 18.1.3. REPAIR ALL LEAKS AND RETEST MAINLINE PIPING UNTIL THE TEST IS SUCCESSFUL.
  - 18.1.4. LATERAL PIPE MUST BE FILLED AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED. NO PRESSURE TEST OF THE LATERAL LINES IS REQUIRED.
- 18.2. FLUSHING:
  - 18.2.1. PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.
  - 18.2.2. USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.
- 18.3. OPERATIONAL TESTING:
  - 18.3.1. UPON COMPLETION OF BACKFILLING, FINISH GRADING AND CONTOURING, TEST THE ENTIRE SYSTEM FOR PROPER OPERATION, INCLUDING ELECTRICALLY ACTUATING THE REMOTE CONTROL VALVES. RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW DETERMINATION OF THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EVAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH ZONE. IN SANDY SOILS NO PUDDLING WILL OCCUR. IN THESE CASES, CALCULATE THE REQUIRED RUN TIMES.
  - 18.3.2. ONCE THE MAINLINE AND LATERAL LINES HAVE PASSED THEIR RESPECTIVE TESTS AND THE SYSTEM IS COMPLETELY OPERATIONAL, A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER OR HIS/HER REPRESENTATIVE THAT PROPER COVERAGE IS OBTAINED AND THAT THE SYSTEM WORKS AUTOMATICALLY FROM THE CONTROLLER. THIS DEMONSTRATION REQUIRES THAT EACH ZONE BE TURNED ON IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION WILL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

**cma**  
chen moore and associates

500 West Cypress Creek Road  
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Ft. Lauderdale, FL 33309  
954.730.0707  
www.chenmoore.com

REGISTRATION  
ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
DATE: 1/23/2025



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## CLIENT

**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

## PROJECT INFORMATION

**ROYAL  
POINCIANA WAY**

PROJECT NUMBER  
24-0431.00060

CLIENT PROJECT NUMBER

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DATE OF ISSUE  
1/17/25

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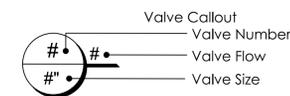
**IRRIGATION  
SPECIFICATIONS**

DRAWING NUMBER  
**IRR-5**  
19 OF 26

## IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Hunter MP Strip PROS-06-PRS40-CV LST	2	LCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV RST	1	RCS	40	0.22	5'x15'
	Hunter MP1000 PROS-06-PRS40-CV M	4	90-210	40		14'
	Hunter MP2000 PROS-06-PRS40-CV K	28	90-210	40		19'
	Hunter MP2000 PROS-06-PRS40-CV R	9	360	40	1.48	19'
	Hunter MP800SR PROS-06-PRS40-CV ADJ	311	Adj	40		10'
	Hunter MP Strip PROS-12-PRS40-CV LST	10	LCS	40	0.22	5'x15'
	Hunter MP Strip PROS-12-PRS40-CV RST	16	RCS	40	0.22	5'x15'
	Hunter MP Strip PROS-12-PRS40-CV SST	182	SST	40	0.44	5'x30'
	Hunter MP1000 PROS-12-PRS40-CV M	8	90-210	40		14'
	Hunter MP2000 PROS-12-PRS40-CV G	16	210-270	40		19'
	Hunter MP2000 PROS-12-PRS40-CV K	47	90-210	40		19'
	Hunter MP2000 PROS-12-PRS40-CV R	10	360	40	1.48	19'
	Hunter MP800SR PROS-12-PRS40-CV ADJ	158	Adj	40		10'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Existing Remote Control Valve Existing remote control valve to remain.	13
	Hunter ICV-G-FS with ICD-100 Existing remote control valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with single station decoder.	4
	Hunter HQ-33DRC Existing Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 3/4" NPT inlet, 2-piece body.	2
	Existing Leemco LGT22SS304X Stainless steel gate valve.	4
	Existing Zurn 950XL Double Check Valve Assembly	2
	Relocated Existing Hunter A2C-75D-M 2-Wire Decoder Controller with 75 station capacity, with PED-SS stainless pedestal.	1
	Existing Junction Box Standard size valve box with wire splice.	9
	Existing Junction Box with Decoder Grounding 10" round valve box with 5/8" x 8" copper grounding rod, 10 ohms resistance or less. Install minimum of 8' from irrigation mainline, decoders, or remote control valves.	2
	Hunter RAIN-CLIK Rain Sensor, with conduit installation, mount as noted. Normally closed switch.	1
	Existing Hunter ICV-G w FS-100-B, ICD-100, ICD-SEN 1" remote control master valve, glass-filled nylon construction, globe configuration, NPT threaded inlet/outlet, with 1" brass flow sensor and sensor decoder.	2
	Water Meter 1-1/2" Existing Water Meter per City	2
	Irrigation Lateral Line: PVC Schedule 40	9,181 l.f.
	Irrigation Mainline: PVC Schedule 40	1,282 l.f.
	Pipe Sleeve: HDPE PE4710 DR 11 4" pipe sleeve for irrigation mainline, lateral lines, and wire conduit.	547.8 l.f.
	Pipe Sleeve: PVC Schedule 40 2-wire path, 12 gauge, twisted pair. Color coded per valve schedule.	262.0 l.f.



## GENERAL NOTES

- EXISTING CONDITIONS PRESENTED ARE BASED ON G.I.S. INFORMATION, FIELD VISITS, AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES.
- CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING SITE FEATURES AND UTILITIES.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
- CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF THE POWER LINES.
- MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.
- IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPE ITEMS, SUCH AS ROADS, WALKS AND PATIOS, THE PIPES MUST BE SLEEVED WITH THE SLEEVE DIAMETER BEING AT LEAST TWICE THE SIZE OF THE PIPE IT IS CARRYING.
- ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR PROCEEDS WITH CHANGES AT OWN RISK.
- NO SUBSTITUTIONS SHALL BE PERMITTED, EXCEPT WITH WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OF RECORD.
- CONTRACTOR TO REPLACE ALL TURF AND SHRUBS DAMAGED FROM THE REMOVAL OF EXISTING IRRIGATION SYSTEM AND THE INSTALLATION OF PROPOSED IRRIGATION SYSTEM.
- CONTRACTOR TO PHASE THE DEMOLITION OF EXISTING IRRIGATION SYSTEM AND THE INSTALLATION OF PROPOSED IRRIGATION SYSTEM BY MEDIAN IN ORDER TO LIMIT CONSTRUCTION ACTIVITY AND IMPACTS TO THE VISUAL APPEARANCE OF TURF AREAS ALONG ROYAL PALM WAY. CONTRACTOR TO SUBMIT PHASING PLAN TO TOWN OF PALM BEACH FOR APPROVAL.
- THE CONTRACTOR TO PROVIDE PROTECTIVE MEASURES FOR ALL DECORATIVE POTS AND STATUE WITHIN THE LIMITS OF CONSTRUCTION FOR THE DURATION OF THE PROJECT. ANY DAMAGE TO THESE ITEMS AS A RESULT OF THE CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR REPLACEMENT IN KIND.

## MAINTENANCE OF TRAFFIC

- MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS INDEX 600 SERIES, 2020-21 EDITION OF THE STANDARD PLANS.
- NO EXCAVATIONS WILL BE CONDUCTED WITHIN THE ROADWAY OF ROYAL POINCIANA WAY. MOVEMENTS OF CONSTRUCTION VEHICLES AND STAGING OF EQUIPMENT SHALL BE FOR NO LONGER THAN 60 MINUTES. OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 602.
- CONTRACTOR RESPONSIBLE FOR ACQUIRING FDOT AND TOWN OF PALM BEACH RIGHT OF WAY PERMITS. AS A CONDITION OF THE TOWN ROW PERMIT REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING WEEKLY TRAFFIC UPDATES TO THE TOWN FOR THE DURATION OF THE PROJECT.

## VALVE SCHEDULE

	NUMBER	MODEL	SIZE	TYPE	GPM	PSI
EXISTING	1	Hunter ICV-G-FS with ICD-100	1-1/2"	Turf Rotary	24.49	42.6
	2	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	24.2	42.3
	3	Hunter ICV-G-FS with ICD-100	1-1/2"	Turf Rotary	19.02	42.9
	4	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	17.91	42.8
	5	Hunter ICV-G-FS with ICD-100	1-1/2"		1.5	
	6	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	25.57	46.4
	7	Hunter ICV-G-FS with ICD-100	1-1/2"	Turf Rotary	26.79	45.0
	8	Hunter ICV-G-FS with ICD-100	1-1/2"	Turf Rotary	15.14	42.2
	9	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	21.26	42.3
	10	Hunter ICV-G-FS with ICD-100	1-1/2"	Turf Rotary	28.48	43.2
	11	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	27.81	42.8
PROPOSED	12	Hunter ICV-G-FS with ICD-100	1-1/2"	Turf Rotary	15.13	42.8
	13	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	19.51	43.3
	14	Hunter ICV-G-FS with ICD-100	1-1/2"		1.5	
	15	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	15.76	44.5
	16	Hunter ICV-G-FS with ICD-100	1-1/2"	Shrub Rotary	28.29	44.4
	17	Hunter ICV-G-FS with ICD-100	1-1/2"	Turf Rotary	30.85	43.6

AREAS AND QUANTITIES HAVE BEEN PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR TO PROVIDE TOTAL QUANTITIES REQUIRED FOR COMPLETE IRRIGATION SYSTEM AND SITE RESTORATION. TOWN OF PALM BEACH MAY MODIFY QUANTITIES AS NECESSARY.

## FDOT GENERAL NOTES

- GOVERNING STANDARD PLANS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS). WEBSITE: <https://www.fdot.gov/design/standardplans>
- GOVERNING STANDARD SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2024 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WEBSITE: <https://www.fdot.gov/programmanagement/implemented/specbooks>
- CONTRACTOR SHALL REPAIR ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION &/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
- ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT LANDSCAPE ARCHITECT.
- OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THEIR COST & EXPENSE FROM THE SITE TO THE PALM BEACH OPERATIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.

## FDOT IRRIGATION NOTES

- THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEETS THE WATER NEEDS OF THE SYSTEM. STORM WATER, RECLAIM WATER, OR GREY WATER IRRIGATION SHALL BE USED WHENEVER POSSIBLE.
- FDOT REQUIRES 24-HOUR EMERGENCY ACCESS TO WATER SOURCE.
- CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS.
- SLEEVING MUST BE 36" BELOW THE ROADWAY. VERIFY WITH FDOT MAINTENANCE THAT SLEEVING/DIRECTIONAL BORE IS PERMITTED AT THIS TIME. A NEWLY RESURFACED ROAD CANNOT BE DISTURBED FOR 5 YEARS.
- PERMITTEES REPRESENTATIVE & AN FDOT INSPECTOR MUST BE ON SITE DURING ALL BORING ACTIVITIES. UPON COMPLETION OF THE BORING ACTIVITIES, PERMITTEE SHALL PROVIDE ALL DOCUMENTATION TO BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 555 OR 556, WHICHEVER IS APPLICABLE.
- PERMITTEES CONTRACTORS THAT ARE PERFORMING DIRECTIONAL DRILLING AND/OR JACK AND BORE ACTIVITIES SHALL PROVIDE THE DEPARTMENT (PERMITS OFFICE) PROOF OF A PROPER STATE CONTRACTOR'S LICENSE AND CERTIFICATE OF LIABILITY INSURANCE PRIOR TO ANY COMMENCEMENT OF PERMITTED WORK.
- PERMITTEE WILL ENSURE THAT ALL LOCATES HAVE BEEN PERFORMED PRIOR TO SCHEDULING OF ANY BORING ACTIVITIES. THIS SHALL INCLUDE SOFT DIGS TO VERIFY VERTICAL & HORIZONTAL ALIGNMENT.
- SHOULD THE IRRIGATION SYSTEM NOT BE FUNCTIONAL FOR A PERIOD OF TIME DURING CONSTRUCTION, ENSURE THAT MEASURES ARE TAKEN TO WATER THE EXISTING PLANT MATERIAL AND SOD. THIS MAY INCLUDE PORTIONS OF THE MEDIAN OUTSIDE THE RENOVATION AREA DEPENDING ON HOW THE SYSTEM IS ZONED.

**cma**  
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ERIC DOUGLAS HARRISON, RLA  
REGISTRATION NO. 6667129  
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## CLIENT

**Town of Palm Beach**  
Public Works  
951 Okeechobee Road, Suite A  
West Palm Beach, FL 33401  
561.838.5440  
Project Manager:  
Mike Roach, PE

## PROJECT INFORMATION

**ROYAL  
POINCIANA WAY**

PROJECT NUMBER  
24-0431.00060

CLIENT PROJECT NUMBER

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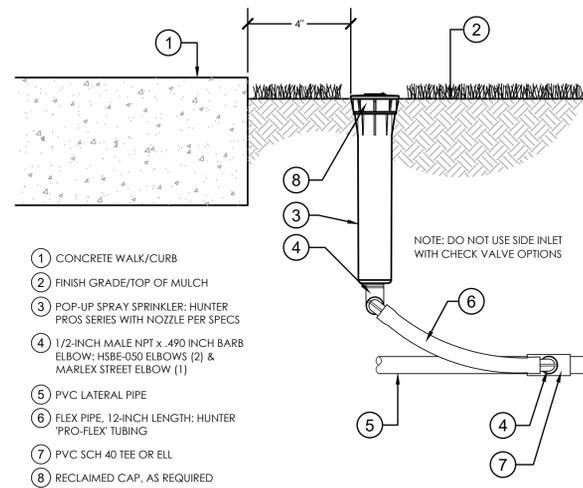
**IRRIGATION  
SCHEDULE**

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**IRR-6**  
20 OF 26

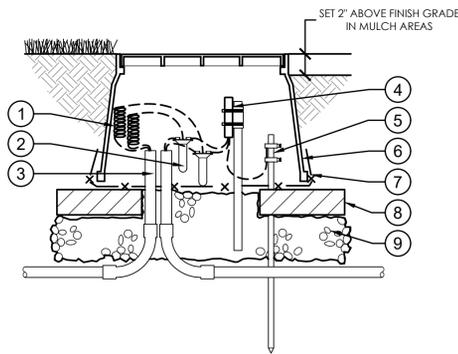


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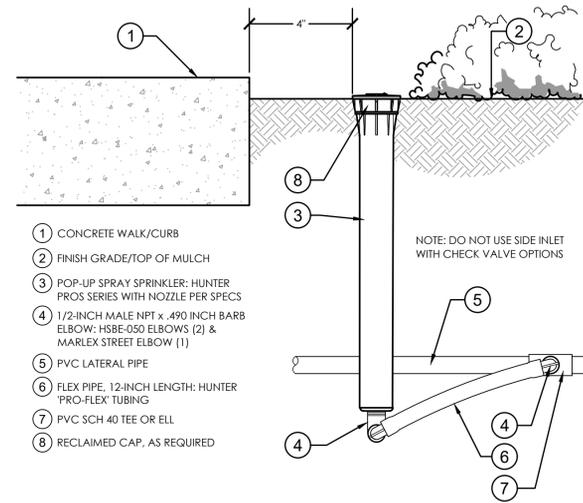


**1 6" POP-UP SPRAY**

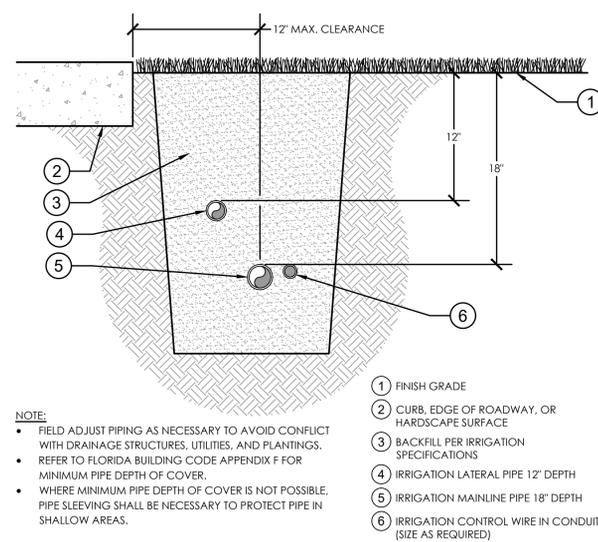
- 1 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2 3M DB R/Y WATERPROOF CONNECTOR (1 OF 2)
- 3 PVC 2-WIRE CONDUIT
- 4 LINE SURGE DECODER: SECURE WITH ZIP TIES TO 3/4" SLEEVE, ATTACH TO 1/2" PVC STAKE
- 5 GROUNDING ROD (10 OHMS RESISTANCE OR LESS)
- 6 STANDARD VALVE BOX
- 7 1/2" WIRE CLOTH GOPHER SCREEN WRAP ALL SIDES
- 8 BRICK (1 OF 4)
- 9 6-INCH MINIMUM DEPTH 3/4" WASHED GRAVEL



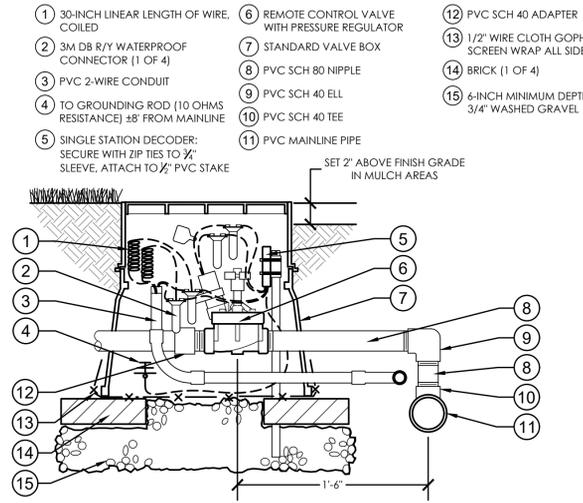
**5 DECODER GROUNDING AND JUNCTION BOX**  
1 1/2" = 1'-0" 328409.79-26



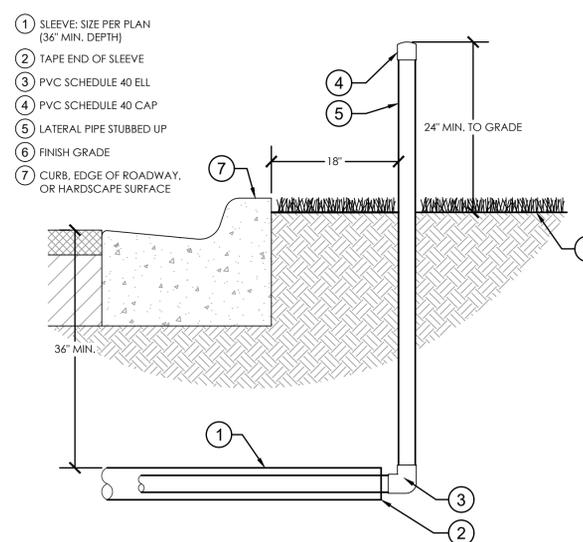
**2 12" POP-UP SPRAY**



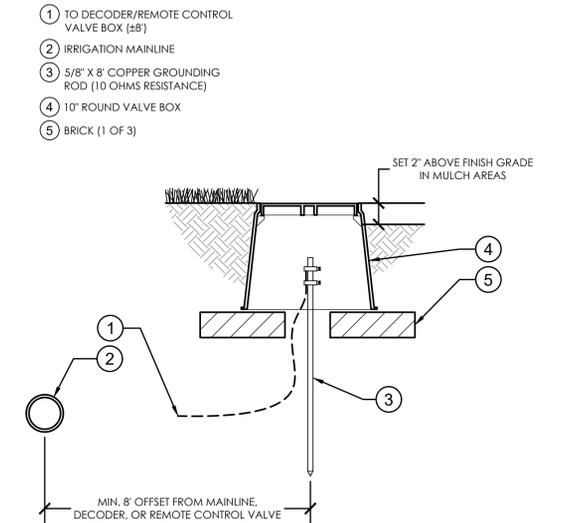
**6 MAINLINE AND LATERAL PIPING**



**3 REMOTE CONTROL VALVE WITH DECODER**



**7 PIPE SLEEVING**



**4 DECODER GROUNDING**

CLIENT

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Mike Roach, PE

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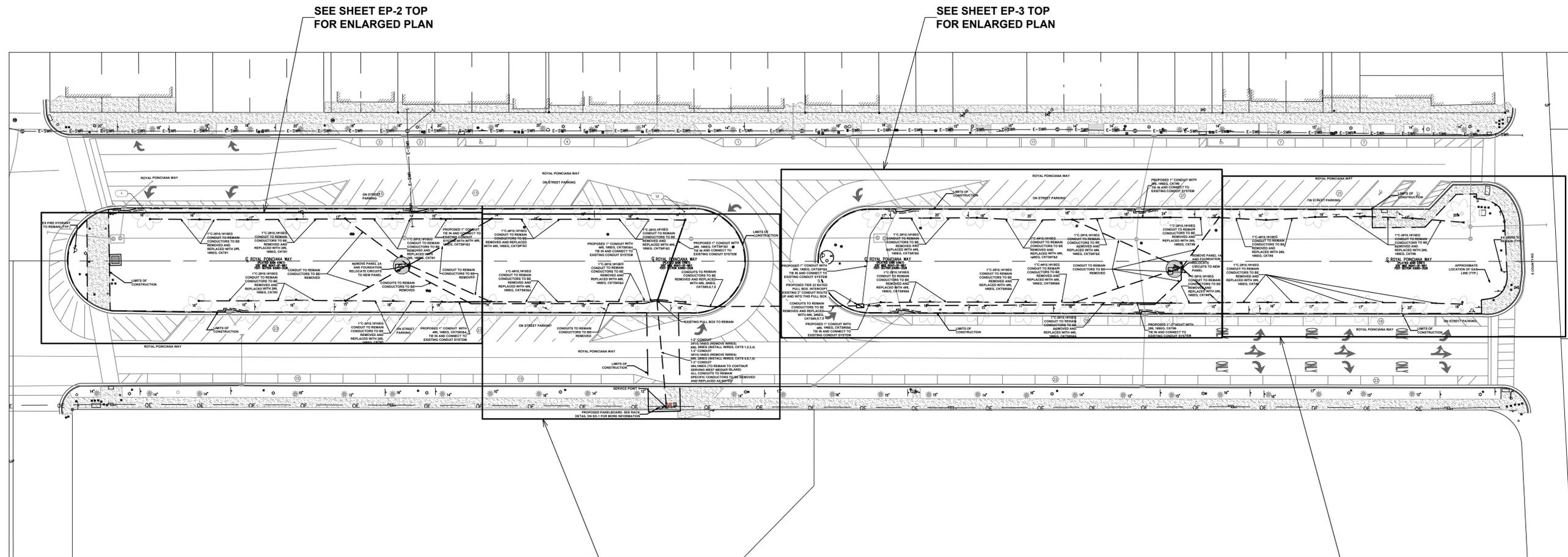
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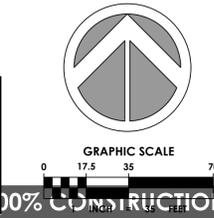
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**ELECTRICAL PLAN**

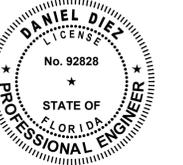
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**EP-1**  
22 OF 5



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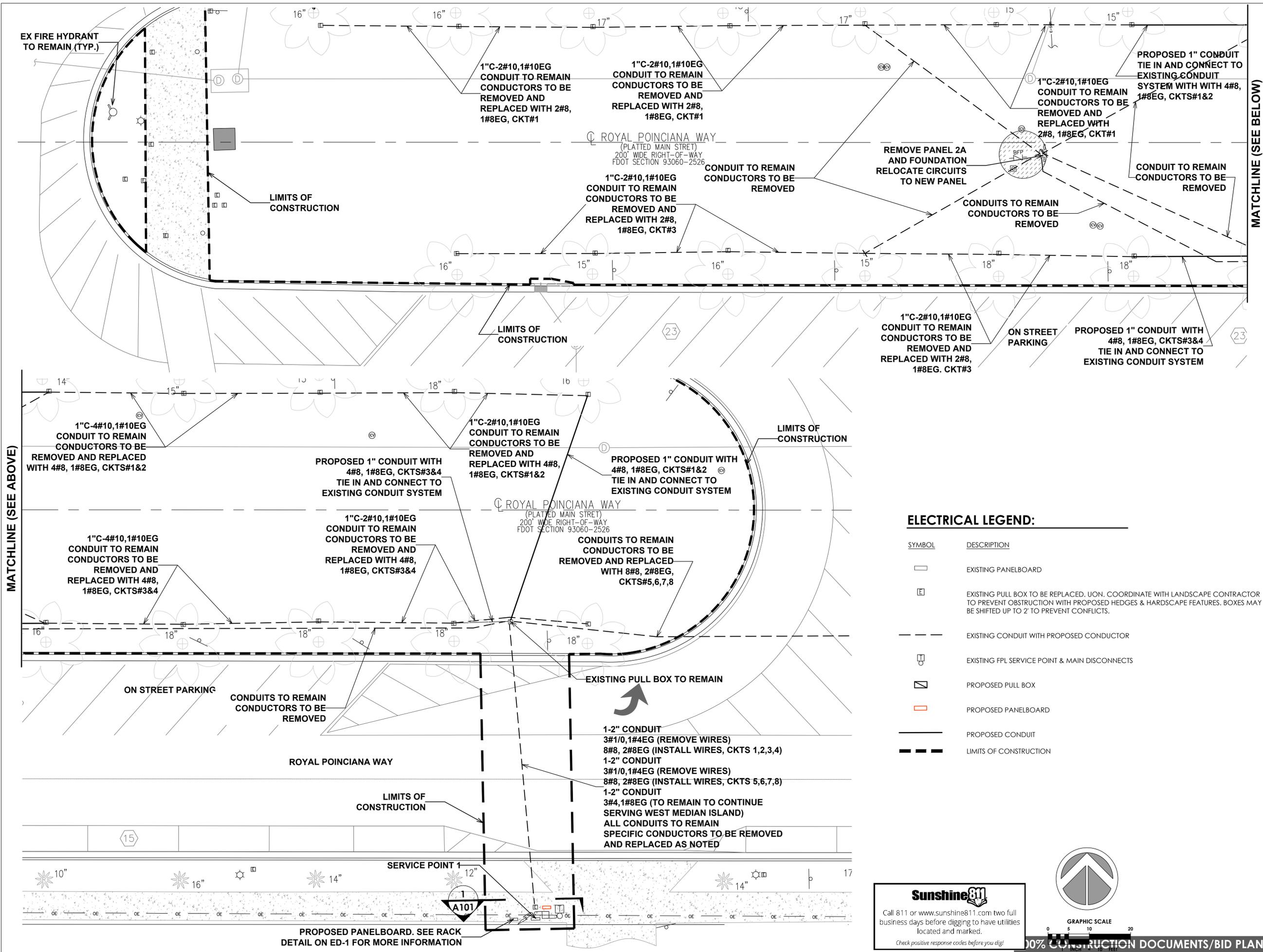
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ELECTRICAL PLAN

DRAWING NUMBER

EP-2



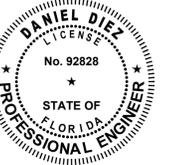
**ELECTRICAL LEGEND:**

SYMBOL	DESCRIPTION
	EXISTING PANELBOARD
	EXISTING PULL BOX TO BE REPLACED. UON. COORDINATE WITH LANDSCAPE CONTRACTOR TO PREVENT OBSTRUCTION WITH PROPOSED HEDGES & HARDSCAPE FEATURES. BOXES MAY BE SHIFTED UP TO 2' TO PREVENT CONFLICTS.
	EXISTING CONDUIT WITH PROPOSED CONDUCTOR
	EXISTING FPL SERVICE POINT & MAIN DISCONNECTS
	PROPOSED PULL BOX
	PROPOSED PANELBOARD
	PROPOSED CONDUIT
	LIMITS OF CONSTRUCTION

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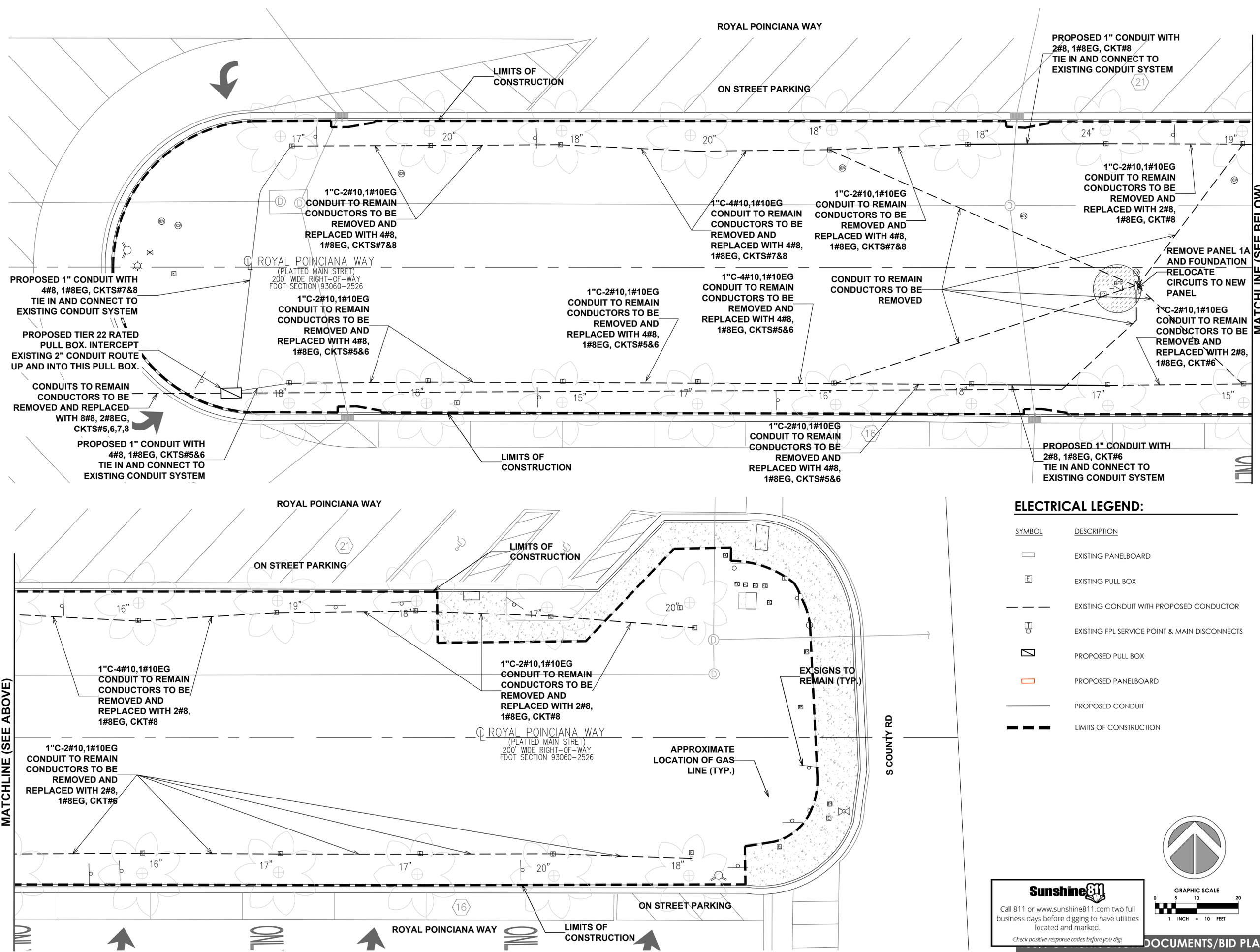
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ELECTRICAL PLAN

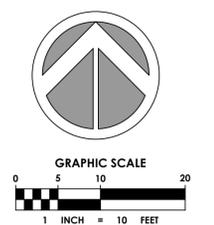
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EP-3



**ELECTRICAL LEGEND:**

SYMBOL	DESCRIPTION
[Symbol: Existing Panelboard]	EXISTING PANELBOARD
[Symbol: Existing Pull Box]	EXISTING PULL BOX
[Symbol: Existing Conduit with Proposed Conductor]	EXISTING CONDUIT WITH PROPOSED CONDUCTOR
[Symbol: Existing FPL Service Point & Main Disconnects]	EXISTING FPL SERVICE POINT & MAIN DISCONNECTS
[Symbol: Proposed Pull Box]	PROPOSED PULL BOX
[Symbol: Proposed Panelboard]	PROPOSED PANELBOARD
[Symbol: Proposed Conduit]	PROPOSED CONDUIT
[Symbol: Limits of Construction]	LIMITS OF CONSTRUCTION



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PROJECT NUMBER  
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CLIENT PROJECT NUMBER  
####

VERIFY SCALES  
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE

####

DESIGNED BY

DD

DRAWN BY

VRK

CHECKED BY

DD

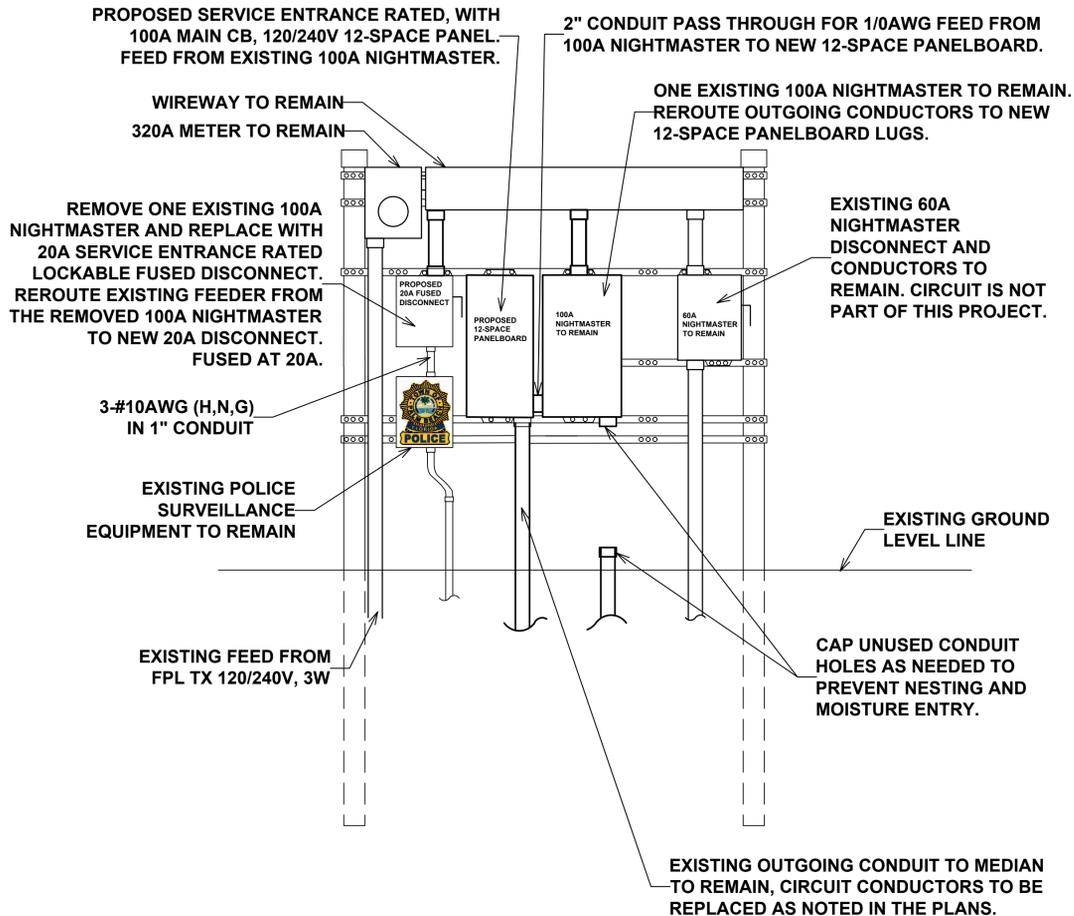
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**ELECTRICAL PLAN DETAILS**

DRAWING NUMBER

**ED-1**

4 OF 5



**SERVICE DISCONNECT RACK**

NOT TO SCALE

1  
EP-2

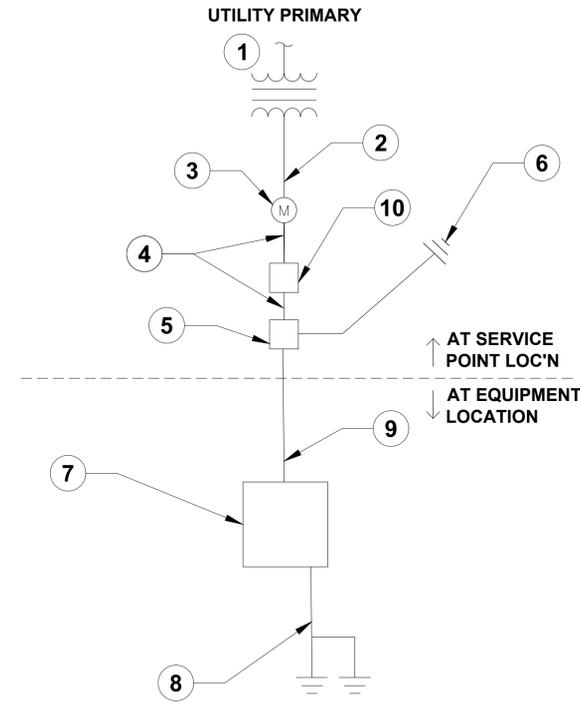
120/240V, 1Ø, 3W 25 KAIC MIN. WITH GROUND BAR				PANEL SCHEDULE							125A BUS SURFACE MOUNTED NEMA TYPE1			
POLE NO.	KVA	BKR TRIP	BKR POLE	VOLT	LOAD DESCRIPTION	TYPE	POLE NO.	KVA	BKR TRIP	BKR POLE	VOLT	LOAD DESCRIPTION	TYPE	
1	0.800	20	1	120	CHRISTMAS LTG		2	0.800	20	1	120	CHRISTMAS LTG		
3	0.800	20	1	120	CHRISTMAS LTG		4	0.800	20	1	120	CHRISTMAS LTG		
5	0.800	20	1	120	CHRISTMAS LTG		6	0.800	20	1	120	CHRISTMAS LTG		
7	0.800	20	1	120	CHRISTMAS LTG		8	0.800	20	1	120	CHRISTMAS LTG		
9		20	1	120	SPACE		10		30	2	240	SPD		
11		20	1	120	SPACE		12							
TOTAL CONNECTED LOAD				6.4 KVA										
TOTAL DEMAND LOAD				6.4 KVA										
TOTAL DEMAND LOAD				53 AMPS										

**PANEL INFORMATION:**

- 12 SPACE MINIMUM.
- BREAKERS TO BE 22KAIC RATED MINIMUM. BRANCH CIRCUITS TO BE GFCI TYPE.
- NEMA 4X

**20A FUSED DISCONNECT (FOR POLICE EQUIPMENT) INFORMATION:**

- DISCONNECT SHALL BE ABLE TO BE LOCKED IN BOTH THE ON AND OFF POSITIONS.
- FUSE TO BE 30KAIC RATED MINIMUM, SLOW-BLOW TYPE.
- NEMA 4X



**ONE LINE DIAGRAM FOR REPLACEMENT PANELBOARD**

NOT TO SCALE

**GENERAL NOTES**

- ELECTRICAL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED REQUIREMENTS/ADDITIONS OF THE FDOT, THE NATIONAL ELECTRIC CODE (NFPA 70), THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C2) AND ALL STATE AND LOCAL LAWS, CODES, AND STANDARDS CURRENTLY ADOPTED AND ENFORCED BY ALL AUTHORITIES HAVING JURISDICTIONS.
- ASCERTAIN THAT ALL ELECTRICAL SYSTEM COMPONENTS FURNISHED BY CONTRACTOR ARE COMPATIBLE IN ALL RESPECTS WITH FDOT STANDARDS AND SPECIFICATION, AND MEET ALL FDOT REQUIREMENTS.
- COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE, WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. PHASE CONDUCTORS SHALL BE USED FOR SINGLE-PHASE, THREE WIRE SYSTEMS, NEUTRAL CONDUCTORS SHALL BE WHITE OR NEUTRAL GRAY.
- ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE CONTINUOUS AND EXTEND TO THE POINT OF UTILIZATION.
- ALL POWER AND CONTROL CIRCUIT CONDUCTORS SHALL BE COPPER; ALUMINUM WILL NOT BE ACCEPTED. THIS INCLUDES WIRE, CABLE, BUSES, TERMINALS, SWITCH/PANEL COMPONENTS ETC.
- EQUIPMENT CABINETS SHALL NOT BE USED AS PULL/JUNCTION BOXES. ONLY WIRING TERMINATIONS AT THE EQUIPMENT SHALL BE BROUGHT INTO THESE ENCLOSURES.
- SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES. EQUIPPED WITH REMOVABLE COVERS, AND AT EASILY ACCESSIBLE LOCATIONS.
- ALL EXPOSED CONDUITS SHALL BE RIGID STEEL PVC COATED.
- PROVIDE ALL ELECTRICAL MATERIALS, TOOLS, AND TRANSPORTATION, AND PERFORM ALL SERVICES AND LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE ITEM OR SYSTEM AS INDICATED.
- ELECTRICAL MATERIALS SHALL BE NEW AND SHALL BE ETL OR UL LISTED AND LABELED. INSTALL ELECTRICAL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- INVESTIGATE THE EXISTING UTILITIES IN THE PROJECT AREA BEFORE ANY EXCAVATION OR BORING AND BE RESPONSIBLE FOR RESEARCHING AND INVESTIGATING THE EXISTING UTILITIES IN THE WORK AREA. THE UTILITIES SHOWN IN THE PLANS ARE THE BEST INFORMATION AVAILABLE TO THE ENGINEER AND DRAWN FOR THE CONTRACTORS INFORMATION. FIELD VERIFY THE UTILITIES BEFORE ANY DIGGING, EXCAVATION, OR BORINGS.
- ALL STEEL CONDUITS FITTINGS, NUTS, BOLTS, ETC. SHALL BE GALVANIZED.
- BOTH ENDS OF ALL CONTROL CONDUCTORS SHALL BE IDENTIFIED AS TO THE CIRCUIT, TERMINAL BLOCK, AND TERMINAL NUMBER.
- UNDERGROUND CONDUIT SHALL BE PVC SCH. 40 UNLESS OTHERWISE NOTED.
- UNDERGROUND CONDUITS SHALL BE INSTALLED A MINIMUM OF 36" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
- ALL LIQUID-TIGHT, FLEXIBLE CONDUIT SHALL BE METALLIC.
- EXISTING SERVICE CONNECTION POINT: COORDINATE WITH FPL TO DE-ENERGIZE EQUIPMENT RACK PRIOR TO BEGINNING WORK.
- PROVIDE NEW LABEL AT ALL MAIN SERVICE DISCONNECTS INDICATING "MAIN SERVICE DISCONNECT."
- REPLACE ANY SUBSTANDARD OR RUSTING COMPONENTS ON EXISTING RACK.
- THE CONTRACT LUMP SUM PRICE SHALL INCLUDE BUT NOT BE LIMITED TO: DEMOLITION OF EXISTING, GROUNDING, CONDUIT/WIRING, PULL BOXES, INTEGRATION OF PROPOSED EQUIPMENT WITH EXISTING EQUIPMENT, FIELD ADJUSTMENTS AND ANY ADDITIONAL APPURTENANCES REQUIRED FOR A COMPLETE, FUNCTIONING, AND COMPLIANT INSTALLATION.

**SPECIFIC NOTES**

- EXISTING FPL 120/240V, 50kVA, TRANSFORMER.
- EXISTING SERVICE FROM FPL DISTRIBUTION TO SERVICE EQUIPMENT RACK.
- EXISTING 320A FEED-THROUGH METER BASE AS PER FPL STANDARDS AND REQUIREMENTS. VERIFY GROUNDING FOR THE METER BASE PER POWER COMPANY REQUIREMENTS.
- EXISTING FEEDER CONDUCTORS TO REMAIN, REROUTE AND ADJUST AS NECESSARY.
- PROPOSED 12-SPACE MINIMUM PANELBOARD WITH 100A MAIN SERVICE ENTRANCE RATED CIRCUIT BREAKER. FEED FROM EXISTING 100A NIGHTMASTER.
- VERIFY GROUNDING AND SUPPLEMENT WITH ADDITIONAL GROUND RODS. IF GROUND RESISTANCE TEST REVEALS A FAILING CONDITION, AT EXISTING RACK.
- RECONNECT EXISTING RECEPTACLE(S) TO THE NEW CIRCUIT CONDUCTORS AT EACH TREE, INSIDE THE EXISTING PULL BOX.
- CONNECT EACH RECEPTACLE EQUIPMENT GROUND TERMINAL TO THE GROUNDED CONDUCTOR.
- PROPOSED CONDUCTORS FROM PANELBOARD TO CHRISTMAS LIGHT RECEPTACLES.
- EXISTING 100A NIGHTMASTER TO REMAIN. REROUTE OUTGOING FEEDER TO SUPPLY POWER TO THE NEW 12-SPACE PANELBOARD.





CLIENT

TOWN OF PALM BEACH

PROJECT INFORMATION

ROYAL POINCIANA WAY

####

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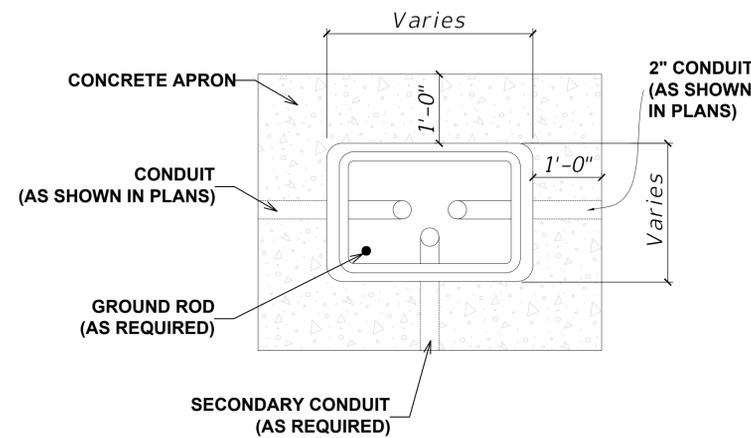
DRAWING TITLE

ELECTRICAL PLAN  
DETAILS

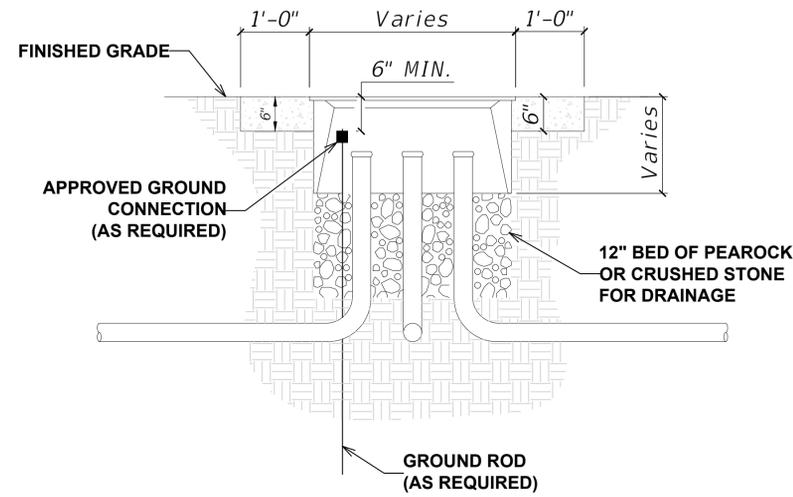
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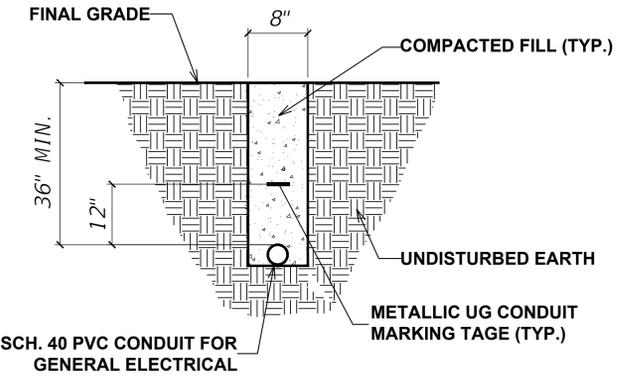
5 OF 5



PULL BOX - PLAN



PULL BOX - ELEVATION



CONDUIT TRENCH DETAIL

NOTES

1. DE-ENERGIZE ENTIRE SYSTEM BEFORE WORK BEGINS, COORDINATE WITH FPL TO DE-ENERGIZE EQUIPMENT RACK AS NEEDED. COORDINATE WITH POLICE DEPARTMENT REGARDING LENGTH OF OUTAGE OF THE EXISTING POLICE EQUIPMENT LOCATED AT THE EQUIPMENT RACK.
2. INSTALL A 1'-0" WIDE (MIN.) CONCRETE APRON AROUND ALL BOXES USING CLASS NS CONCRETE. SLOPE THE APRON AWAY FROM THE BOX.
3. WHERE MULTIPLE PULL BOXES ARE PLACED SIDE BY SIDE, MAINTAIN AT LEAST 8" BETWEEN THE PULL BOXES.
4. RECTANGULAR BOXES SHOWN, OTHERS SIMILAR.
5. DETAILS NOT TO SCALE.

ARC FLASH SAMPLE LABELS

<b>WARNING</b>		<b>WARNING</b>		<b>WARNING</b>		<b>WARNING</b>		<b>WARNING</b>	
Arc Flash and Electric Shock Risk		Arc Flash and Electric Shock Risk							
Appropriate PPE Required		Appropriate PPE Required		Appropriate PPE Required		Appropriate PPE Required		Appropriate PPE Required	
<b>181 in</b> <b>47.8 cal/cm<sup>2</sup></b>	Arc Flash Boundary Incident Energy at <b>18 in</b>	<b>183 in</b> <b>48.9 cal/cm<sup>2</sup></b>	Arc Flash Boundary Incident Energy at <b>18 in</b>	<b>182 in</b> <b>48.4 cal/cm<sup>2</sup></b>	Arc Flash Boundary Incident Energy at <b>18 in</b>	<b>181 in</b> <b>47.8 cal/cm<sup>2</sup></b>	Arc Flash Boundary Incident Energy at <b>18 in</b>	<b>5 in</b> <b>0.15 cal/cm<sup>2</sup></b>	Arc Flash Boundary Incident Energy at <b>18 in</b>
<b>PPE</b> <b>240 VAC</b>	Arc-rated shirt & pants or arc-rated coverall or arc-rated arc flash suit Electric Shock Risk when cover is removed	<b>PPE</b> <b>240 VAC</b>	Arc-rated shirt & pants or arc-rated coverall or arc-rated arc flash suit Electric Shock Risk when cover is removed	<b>PPE</b> <b>240 VAC</b>	Arc-rated shirt & pants or arc-rated coverall or arc-rated arc flash suit Electric Shock Risk when cover is removed	<b>PPE</b> <b>240 VAC</b>	Arc-rated shirt & pants or arc-rated coverall or arc-rated arc flash suit Electric Shock Risk when cover is removed	<b>PPE</b> <b>240 VAC</b>	No Arc-rated PPE Required Electric Shock Risk when cover is removed
<b>00</b> <b>42 in</b> <b>12 in</b>	Glove Class Limited Approach Restricted Approach	<b>00</b> <b>42 in</b> <b>12 in</b>	Glove Class Limited Approach Restricted Approach	<b>00</b> <b>42 in</b> <b>12 in</b>	Glove Class Limited Approach Restricted Approach	<b>00</b> <b>42 in</b> <b>12 in</b>	Glove Class Limited Approach Restricted Approach	<b>00</b> <b>42 in</b> <b>12 in</b>	Glove Class Limited Approach Restricted Approach
<b>Location:</b>	<b>BUS-20A FUSED DISCONNECT</b>	<b>Location:</b>	<b>BUS-METER</b>	<b>Location:</b>	<b>NIGHTMASTER 100A DISCON</b>	<b>Location:</b>	<b>PANELBOARD-MAIN</b>	<b>Location:</b>	<b>TREE LIGHTING PULLBOXES</b>
	SKM Systems Analysis, Inc. 1 Pearl St. Redondo Beach, CA 90277 (310) 698-4700		SKM Systems Analysis, Inc. 1 Pearl St. Redondo Beach, CA 90277 (310) 698-4700		SKM Systems Analysis, Inc. 1 Pearl St. Redondo Beach, CA 90277 (310) 698-4700		SKM Systems Analysis, Inc. 1 Pearl St. Redondo Beach, CA 90277 (310) 698-4700		SKM Systems Analysis, Inc. 1 Pearl St. Redondo Beach, CA 90277 (310) 698-4700
<b>Job#:</b> 232874	<b>Prepared on:</b> 01/22/25	<b>Job#:</b> 232874	<b>Prepared on:</b> 01/22/25						
By: Engineer		By: Engineer		By: Engineer		By: Engineer		By: Engineer	
Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements		Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements		Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements		Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements		Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements	

ARC FLASH CALCULATION EQUIPMENT SETTINGS BASIS:

LIGHTING PANELBOARD MAIN PROTECTIVE EQUIPMENT:  
100A MAIN BREAKER - SQUARE D QO-VH 2-POLE 100A

POLICE MAIN PROTECTIVE EQUIPMENT:  
FUSED DISCONNECT - USING 20A BUSSMAN STD, HRC FUSE

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