

- ### IRRIGATION LEGEND:
- ⊙ Rainbird 100-PCA, 1" electric valve or equivalent.
 - ⊙ Rainbird ESP-4ME series automatic outdoor controller will be exterior wall mount or equivalent w/ rainbird soil moisture sensor. Locate on site.
 - Sleeves, SCH 40.
 - Rainbird 1800-SAM-P45 pop-up, w/ appropriate R-13-18 rotary series nozzle.
 - 12.24" radius, low trajectory or equivalent.
 - Rainbird S 700 series rotors, 25-40" radius, Xert-Pop 4-6" pop-up or SCH 80 riser as required.
 - Rainbird Xert Bubblers, install 1-4 per size of palm or tree if required, verify after trees and palms have been installed. Bubblers are not indicated on plan w/ value.
 - Main water line, 1 1/4" schedule 40 pvc.
 - ⊙ Indicates Zone# GPM.
 - ⊙ 58" water meter, 18-22 GPM @ 45-50 psi w/ RPZ backflow preventor/ vacuum breaker, and ET manager in-ground moisture sensing device and pressure regulator as required and approved by City of Delray Beach.

GENERAL NOTES:

All landscaped areas shall be provided with an automatic water supply system as approved through a land development permit. Proposed irrigation system is 70% xert drip irrigation system thus justifying use of city water as water source.

Irrigation contractor to provide seasonal operating schedule and average precipitation rates for each zone by system controller.

Nozzle precipitation rates for all heads within each valve circuit must be matched to within 20% of one another.

A regular irrigation maintenance schedule shall include but not be limited to checking, adjusting, and repairing irrigation equipment; and resetting the automatic controller according to the season.

Irrigation system plans and specifications shall under no final testing and adjustments to achieve design specifications prior to completion of the system and acceptance by the owner's representative and the City. An as built plan shall be submitted if different than irrigation plan.

IRRIGATION NOTES:

NOTES

Automatic Irrigation System
Water Demand Zone 58" water meter, 18-22 GPM @ 45-50 psi w/ RPZ backflow preventor/ vacuum breaker, and rain moisture sensing device

GENERAL

System shall be installed in accordance with local codes. Contract drawings and Contract specifications. Irrigation design based on Hydrex Views dated 08-28-18. Contractor shall refer to the landscape plan to coordinate sprinkler location and pipe routing with new and existing landscaping.

Contractor shall adjust sprinkler locations to insure proper coverage in common areas between new and existing landscaping.

Irrigation contractor to provide 100% coverage with a 50% overlap and as built drawings.

Irrigation plan is for bid, permit purposes, and shall not be utilized as a construction document.

Irrigator contractor will provide shop drawings and product specifications (cut sheets) and installation documents, to the Landscape architect for review, comment and approval.

A licensed contractor who installs or performs work on an automatic landscape irrigation system must install system per manufacturer's specifications and test for the correct operation of each installing or interrupting device or switch on the system. If such devices are not installed, or are not functioning properly, the contractor must install new devices or repair the existing ones and install test each to operating properly before commencing work on the system.

All contractors performing work on irrigation systems within the town shall be licensed or registered under F.S. ch. 489 and shall hold a municipally-issued license or business tax certificate that permits work on irrigation systems.

PIPING

Pipe shall be installed in accordance with local codes and pipe manufacturer's recommendations.

Pipe routed under pavement and patio shall be sleeved in SCH 40 PVC. Contractor shall utilize existing sleeves.

Main line shall be scheduled 40 PVC.

All pipes shall be Type 1120 PVC, Lateral steel 1" and larger shall be SDR 26, Class 180. Laterals sized 3/4" shall be SDR 21, Class 200.

Pipe shall be installed so backfill depths are maintained at 18" for the main line and all lateral routed under pavement, and at 12" for all other installs.

Backfill shall be of suitable material free of rocks, stones, or other debris that would damage irrigation systems components.

SPRINKLERS

Sprinkler locations shall be adjusted for wind, landscaping and mounding to insure proper coverage with minimal undesirable overwater. In order to prevent overwater, low trajectory heads or low volume water distributing devices shall be used when irrigating confined areas. No more than ten percent of spray radius shall be allowed onto impervious areas.

Sprinkler heads irrigating lawns or other high water requirement landscape areas shall be drilled so that they are on a separate sector from those irrigating trees, shrubbery or other reduced water requirement areas.

Pop-up rotors Rainbird ST00-PRS series w/ adjustable nozzles or equivalent, 25-40" radius.

Pop-up mistheads Rainbird 1800-SAM-P45 series, w/ R-13-18 rotary nozzles or equivalent, 12-24" radius. Stimul type mistheads shall be installed a uniform height of 6" above plant material and shall be located to be concealed from view and inaccessible from traffic.

Rainbird Xert Bubblers shall be installed on SCH 80 risers to the best height for the most effective irrigation of the plants to be watered. Bubblers are required for trees and palms.

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All SCH 80 PVC risers shall be painted green to blend in with plant material.

VALVES

Rainbird 100-PCA 1" angle electric valve w/ pressure regulator or equivalent, with timer and rain sensor device.

WATER SOURCE

58" water meter, 18-22 GPM @ 45-50 psi w/ backflow preventor/ vacuum breaker, and ET manager in-ground moisture sensing device and pressure regulator as required and approved by City of Delray Beach. All connectors and installation of backflow shall be made by a licensed plumber.

CONTROL SYSTEM

Rainbird ESP-4ME series automatic outdoor controller will be exterior wall mount or equivalent w/ Rainbird soil moisture sensor of 12.24" radius, low trajectory or equivalent. The system shall be installed in accordance with manufacturer's specifications. All electrical connections to be made by a licensed electrician.

FLOW	PIPE DIAMETER (INCH)
0-3	3/4"
3-9	1"
10-16	1 1/4"
17-26	1 3/4"
27-40	2"
40-80	2 1/2"

Automatic underground irrigation with Rainbird ET Manager in ground soil moisture sensor shall be designed and installed in accordance with the Florida Building Code and city code requirements. The system shall provide a minimum coverage of 100% with 50% overlap.

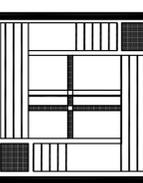


1 IRRIGATION PLAN
SCALE: 1/4" = 1'-0"

LOUIS ILLAS VLAHOS
LANDSCAPE ARCHITECT
CONSULTANT
LA #666677
LC #26000319

MAJESTIC VIEWS
Landscape Architecture - Construction Management
4711 Cypress Drive South, Boynton Beach, FL 33436
Phone: (561) 752-9835 Fax: (561) 752-4110
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MERRY PLACE ESTATES
SINGLE FAMILY HOMES
WEST PALM BEACH, FL
IRRIGATION PLAN-TYPE 2 ALT.
425 HOGAN'S STREET.



DAVID LAWRENCE
ARCHITECTURE INC.
205 WORTH AVE.
SUITE 301 C
PALM BEACH, FL 33480
PH. 561.588.5070
FX. 561.588.5074
LIC. NO. AR 061060
CERT. OF AUTH. NO. JA-20070134
WWW.DAVIDLAWRENCEARCHITECT.COM

TO THE BEST OF THE KNOWLEDGE OF ENGINEERS SPECIFICATIONS COMPLY WITH THE STATE AND LOCAL APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED IN ACCORDANCE WITH THIS SECTION AND DEPARTMENTS.

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DAVID LAWRENCE ARCHITECTURE INC.

REV. NO.	DATE	DESCRIPTION

JOB NO: 1605
DRAWN BY: LIV
DATE: 08.28.18
SCALE: 1/4"=1'-0"
FILE:

SHEET NO.
IP-1