



Residential Complex, Rockville, Maryland

Large Apartment Community Reduces Costs & Conserves Water with Rain Bird® R-VAN Rotary Nozzles

Rockville, Maryland is part of the Baltimore–Washington metropolitan area and this sprawling, multi-building condominium complex is home to many D.C. commuters. Irrigation on the property is managed by one of the largest commercial landscape companies in the industry: Ruppert Landscape.

THE CHALLENGE

The community's irrigation is more than 20 years old. Some of the planting beds date back even further. As a result, the original irrigation layout is no longer meeting the needs of the vegetation. Many beds are receiving little to no water and in other places, water is being used where plants no longer exist. The legacy irrigation system is also limiting Ruppert Landscape's ability to add seasonal color and new plant material. The property is long overdue for a system update—but condo associations have fixed and limited budgets.

THE SOLUTION:

The team will take a phased approach to addressing the problems at the complex. It will start with utilizing Rain Bird **R-VAN Rotary nozzles** to modernize the out of date irrigation system. This will provide significant cost-savings and more intelligent watering without having to immediately replace the entire system.



R-Van Rotary Nozzles

Core Products Used:

- [RVAN14](#)
- [RVAN18](#)
- [RVAN24](#)

KEY OBJECTIVES

- ✓ **Conserve Water**
- ✓ **Reduce Costs**
- ✓ **Achieve Even Water Application**
- ✓ **Increase Flexibility**



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APPROACH:

Capitalize on the Efficiency of R-VANs

R-VAN Rotary Nozzles are engineered to deliver the most efficient coverage with large, wind-resistant droplets. Gentle, rotating streams create uniform coverage and can improve watering efficiency up to 30%. Shorter zone run times and lower precipitation rates reduce water waste as well as costly erosion.



R-VAN ROTARY NOZZLES

UP TO 30% MORE EFFICIENT
THAN FIXED SPRAY PATTERN NOZZLES

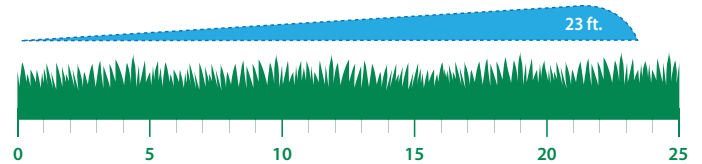
Leverage Higher Arcs and Longer Distances

For large planters, R-VAN provides superior arc angles so that water is thrown higher over taller plants. Additionally, R-VAN offers the flexibility to increase distances so that normally “hard-to-reach” areas are no longer neglected. While traditional sprays only cover 15 feet, R-VANs cover up to 24 feet without losing water to evaporation.

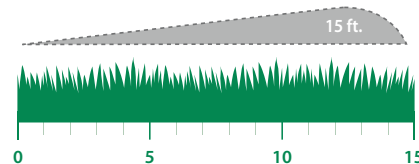
Make the Most Out of an Economical Budget

Although the complex could eventually benefit from flow sensing and an IQ Central Control system, the condo association is limited by a fixed budget. Rather than overhauling their entire system at once and exceeding their budget, Rain Bird can help implement the first phase of their transition by providing this simple, low-cost fix to start saving water today.

R-VAN COVERAGE:



TRADITIONAL COVERAGE:



RESULTS:

Better Coverage Without Water Waste

Many plant beds were positioned on slopes with mature plants blocking spray head locations. With the installation of R-VAN Rotary Nozzles, **plant material now receives even coverage with less water lost to misting and runoff.**

Enhanced Flexibility with a Phased Approach

The customer was experiencing high water bills. Even without the budget for a full new system, Rain Bird technology allowed the customer to conserve resources by taking a phased approach, starting with the replacement of 300 core nozzles.

