

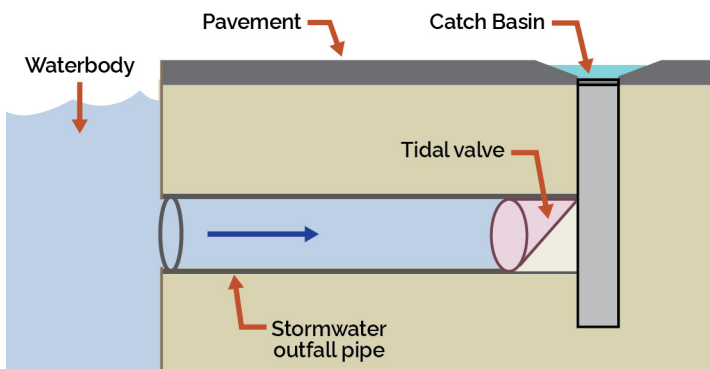
Project updates are provided bi-monthly.
 For the latest updates, visit: www.fortlauderdale.gov/fortifylauderdale

Preventing Flooding with Stormwater Solutions: Tidal Valves

Tidal valves are specialized devices installed in stormwater outfalls where drainage pipes discharge into canals, rivers, or the ocean. These valves are designed to allow rainwater to flow out of the stormwater system while preventing tidal water from flowing back into streets and neighborhoods during high tides or storm surges. Rising sea levels or high tides can cause water to back flow through the drainage system, leading to flooding in low-lying areas. Each valve is a fully automated

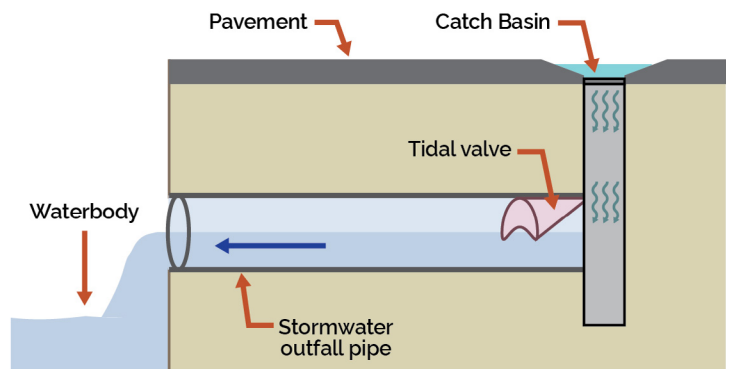
solution that operates without the need for electricity or human intervention. By using differential pressure, the valves open and close as needed, providing continuous protection with minimal maintenance. By installing tidal valves, the City of Fort Lauderdale significantly reduces the risk of high-tide flooding and protects homes, roads, and infrastructure from water intrusion.

Under high tide conditions



When the water level rises, the tidal valve automatically closes to prevent water from backing up into the drainage system.

Under normal tide conditions



When the water level is lower outside the outfall, the valve opens to allow stormwater to flow into the receiving waterbody.

Enhancing Flood Resilience in Southeast Isles Neighborhood

In Southeast Isles, approximately 90 new tidal valves are planned for installation at existing outfalls. These valves will be strategically located throughout the neighborhood to help control high tide impacts and reduce the risk of flooding on properties and roads. These strategic installations are a proactive step to enhance stormwater management and improve community resilience against coastal flooding.



A newly installed 72" tidal valve in the Historic Dorsey Riverbend neighborhood. This valve discharges into the New River and helps reduce flooding during high tide events.