

## RESILIENCE & SUSTAINABILITY GUIDANCE FOR: PARKS

The project should incorporate resilience and sustainability elements to align with the City's goal to design, build, and operate more efficient, environmentally responsible, healthy and resilient parks that reduce flood risk and conserve and restore environmental resources. The project should incorporate the following elements, as applicable and feasible.

### Resilience: Flood Risk Reduction/ Elevation/ Sea Level Rise/ Heat

- Draft Sea Level Rise Adaptation Plan (Pending CC approval)
- Resolution 2024-33381 Blue Green Strategy for NIPs, Parks and Stormwater over \$10M
- Resolution 2020-31316- Incorporate blue-green stormwater management practices, per the Blue-Green Stormwater Infrastructure Concept Plan.
- Resilience code (2023)
- Ord 2022-4482 Ch 54 Floods
- Ordinance 2019-4252 Urban Heat Island Ordinance
- 2040 Miami Beach Comprehensive Plan (Sea Level Rise Adaptation)

### Energy Efficiency and Renewable Energy

- Analyze feasibility of roof-top solar, solar carports, and other types of solar installations.
- LED and Solar powered lighting features for outdoor lighting;
- Choose wildlife friendly fully shielded fixtures that emit no light upward;
- Use “warm-white” or filtered LEDs (CCT < 3,000 K; S/P ratio < 1.2) to minimize blue emission;
- Look for products with adaptive controls like dimmers, timers, and motion sensors;
- Recommend lighting poles with solar, to power the lights during the day;
- Consider turtle-friendly/dark-sky recommended lighting, this is **required** for lighting that can be seen from the beach (Ordinance 2024-4652);
- Consider the use of lighting efficiency controls;
- For bathrooms, use energy-Efficient Vent Fan (ENERGY STAR);

### Water Efficiency

- Encourage water efficiency and resource conservation in restrooms through the following:
  - WaterSense Labeled and/or ultra low-flow toilets;
  - WaterSense labeled and/or ultra low-flow bathroom sink faucets and accessories;
  - Motion Sensor Faucets;
  - Gray water (from sinks) to supply water for toilets and to irrigate landscaping;
- Install water bottle filling stations as per Parks specs;

### Waste Reduction/ Litter

- Ordinance 2024-4590: Balloons prohibited at public marinas, marine facilities, parks and beaches.
- Ordinance 2022-4509: Smoking cigarettes in public parks or on public beaches is prohibited. Cigarette butts are by far the most common item polluting our parks, beaches and waterways and contain microplastics.

- Resolution 2019-31017: Limits on plastics at beachfront concessions. Requires all beachfront concessionaires to utilize 100% reusable wares, including tableware, serving dishes/containers, condiments, plates, bowls, hot and cold cups, and flatware. This does not apply for takeout.
- Ordinance 2019-4295: City-wide plastic straw and stirrer ban. Food service providers and stores are prohibited from selling, using, offering for sale or use, or providing beverages with single-use plastic beverage straws and single-use plastic stirrers.
- Ordinance 2017-4068: Extension of polystyrene ban. Unencapsulated expanded polystyrene floating docks, floating platforms, and buoys are prohibited to be used or placed in any of the waters and waterways citywide.
- Ordinance 2015-3962: City-wide polystyrene (Styrofoam) Ban. The sale and use of expanded polystyrene (also known as Styrofoam) is banned within the City and includes: parks, beaches, city-owned facilities, sidewalk cafes, special event permits, city marinas, unencapsulated docks, buoys, platforms, piers and boat ramps.
- A recycling receptacle should be paired with every waste receptacle;
- Trash receptacles should have the following:
  - Larger opening;
  - Clear messaging that reads “waste” or “trash”
  - Distinct color bin from recycling;
- Recycling receptacles should have the following:
  - Specialized lid with a smaller opening(s);
  - Clear messaging that reads “recycling” on top and side of bin;
  - Top and/or bin frame must be blue in color (or distinct color from waste).

#### Construction Materials

- Incorporate a construction and demolition debris management plan to reuse and/or recycle any demolition materials;
- Incorporate porous pavement/concrete where applicable;
- Consider the use of recycled materials for furnishing and playground structures;
- Consider Low and no-VOC products for all painting;
- For construction of bathrooms, consider use of recycled tiles and white or light colors for the roof;
- Consider the use of low-carbon or carbon neutral materials, such as concrete.

#### Green Infrastructure and Landscaping

- Ordinance 2021-4392- Fertilizer ban May 15th through November 1<sup>st</sup> (note we observe the County’s May 15 date even though ours is June 1 as our was adopted first);
- Follow FL Friendly landscaping guidelines and prioritize native FL species for trees and (xeriscaping) landscaping;
- Per Resolution 2017-29748, incorporate best management practices for landscaping by including the use of the Florida-friendly Landscaping Guide, replacing sod with a groundcover that is Florida-friendly, and often requires less water, fertilizer, and pesticide use;
- For construction of playing fields, non-toxic and/or low petroleum products are recommended for synthetic turfs/grass;

- Consider potential non-potable supply sources, such as captured rainwater or graywater from flow fixtures for irrigation.

#### Transportation and Mobility

- Recommend bike parking be provided and bike racks that follow city standards;
- Comply with EV charging and EV parking requirements, per Ordinance 2024-4579.

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