PW-R2: Water Monitoring & Leak Detection

Intent

To reduce loss of water associated with leaks, system degradation, or failure.

Credit Requirements

GENERAL

Monitoring

Demonstrate that easily accessible, clearly labelled water meters are provided and capable of monitoring the water consumption of, at a minimum, the following uses (where present):

- Irrigation;
- External hose bibs;
- Water Features; and
- Any other major public realm water requirements (e.g. swimming pools etc.).

Leak Detection

Demonstrate that a leak detection system has been installed that covers all main water distribution networks within the project.

ADDITIONAL REQUIREMENT/CLARIFICATIONS

Individual Streetscapes

The credit requirements can be achieved by demonstrating that the streetscape is monitored as part of a network of streetscapes.

Credit Submission: Design Rating

- ☐ Narrative describing the project's:
  - Water monitoring strategy relating to all major uses; and
  - Leak detection strategy.
- ☐ Design drawings identifying the location of all meters, leak detection equipment, and central monitoring system;
- ☐ Schematics illustrating the metering strategy, confirming that the required level of metering will be achieved; and
- ☐ Extracts from specifications clearly indicating:
  - The type and extent of all metering;
  - Leak detection equipment; and
  - Central monitoring system.

Credit Submission: Construction Rating

- ☐ Updated Narrative describing the project's:
  - Water monitoring strategy relating to all major uses; and
  - Leak detection strategy.
- ☐ As-built drawings identifying the location of all meters, leak detection equipment, and central monitoring system;
- ☐ Manufacturer's data clearly indicating:
  - The type and extent of all installed meters;
  - Leak detection equipment; and
  - Central monitoring systems;
- ☐ Photographs confirming the installation of specified meters, leak detection equipment and monitoring capabilities of the central monitoring system; and
- ☐ Written commitment from the site owner to submit all water monitoring data to Estidama (if requested).

Calculations and Methodology

All meters must have pulsed output and be connected to a central monitoring system so that information on the water network performance can be recorded. The monitoring