PW-R3: Stormwater Management

Intent

To minimise peak stormwater discharge and protect the stormwater drainage system and receiving water bodies from pollutant loading during and after storm events.

Credit Requirements

GENERAL

Quantity Control

- Demonstrate that the project has developed a stormwater management system that prioritises infiltration, sustainable urban drainage systems, and utilises structural solutions when necessary; and
- Demonstrate that the post-development peak runoff rate and quantity from the 2-year 24-hour design storm does not exceed the pre-development peak runoff rate and quantity through either structural or non-structural methods, or a combination of both.

Operation & Maintenance Plan

Demonstrate that an Operation & Maintenance Plan (OMP) is in place that shows how all stormwater systems will be maintained throughout the life of the project. The plan should include at a minimum:

- Protocol for maintaining regular system checks and maintenance;
- Methods for ensuring neighbouring developments will not be adversely affected by the project's stormwater strategy; and
- Strategies to prevent on-site erosion.

ADDITIONAL REQUIREMENT/CLARIFICATIONS

Where the project site forms part of a phased master plan, each phase must provide self-sufficient stormwater retention, even if temporary.

Credit Submission: Design Rating

- ☐ Narrative describing the stormwater management system developed for the site including:
  - Drawings showing locations of components of the stormwater management system including catchment areas, gullies, open and underground drains, manholes, retention areas/structures and treatment system; and
  - Civil engineering calculations describing and quantifying the stormwater management strategies, specifically addressing the pre-development and post-development peak runoff rate and quantity.
- ☐ OMP for ongoing site best management practices to uphold system integrity. The plan shall include:
  - An inspection schedule for the stormwater management system to assure its continued operation as designed;
  - A protocol for cleaning & de-silting stormwater detention areas after storm events;
  - The proposed person(s), organisation, or entity responsible for the continued operation and maintenance of the stormwater management system;
  - Operating budgets and funding mechanism for the continued maintenance of the stormwater management system;
  - Methods for ensuring neighbouring developments will not be adversely affected by the project's stormwater strategy; and
  - Erosion plan to prevent excessive on-site erosion and to any receiving water courses.
- ☐ CV of qualified Civil Engineer.

Credit Submission:

- ☐ As-built drawings showing locations of the applied components of the stormwater management system;