

Design Note

Project

Co-op Live Canalside Development

Subject

Drainage Statement

Project no

0065744

Date

28 May 2025

Revision	Description	Issued by	Date	Approved (signature)
00	For Information	CR	28.05.2025	AJH

1 Purpose

The purpose of this technical note is to explain the current drainage proposals for the Co-op Live Canalside Development.

1.1 Scheme Proposals

The scheme proposals are found in the image below, and consist of a new structure placed above the existing podium hardstanding area. Two-storey building, comprising food, beverage and retail space with associated WC, lighting, and other associated works, including external seating areas, integrated into the existing area of landscaping at Co-op Live.



Figure 1—1 Scheme Proposals

2 Surface Water Drainage

2.1 Existing Situation

The existing finishes, levels and drainage at podium (Level 01) in close vicinity to the new structure are found in the following two images. Existing hardstanding is indicated by the light blue hatch. The area surrounding the new structure drains to existing channel drains located in the middle of the podium. The channel drain outfall to existing above ground drainage in the Co-op Live Arena building.

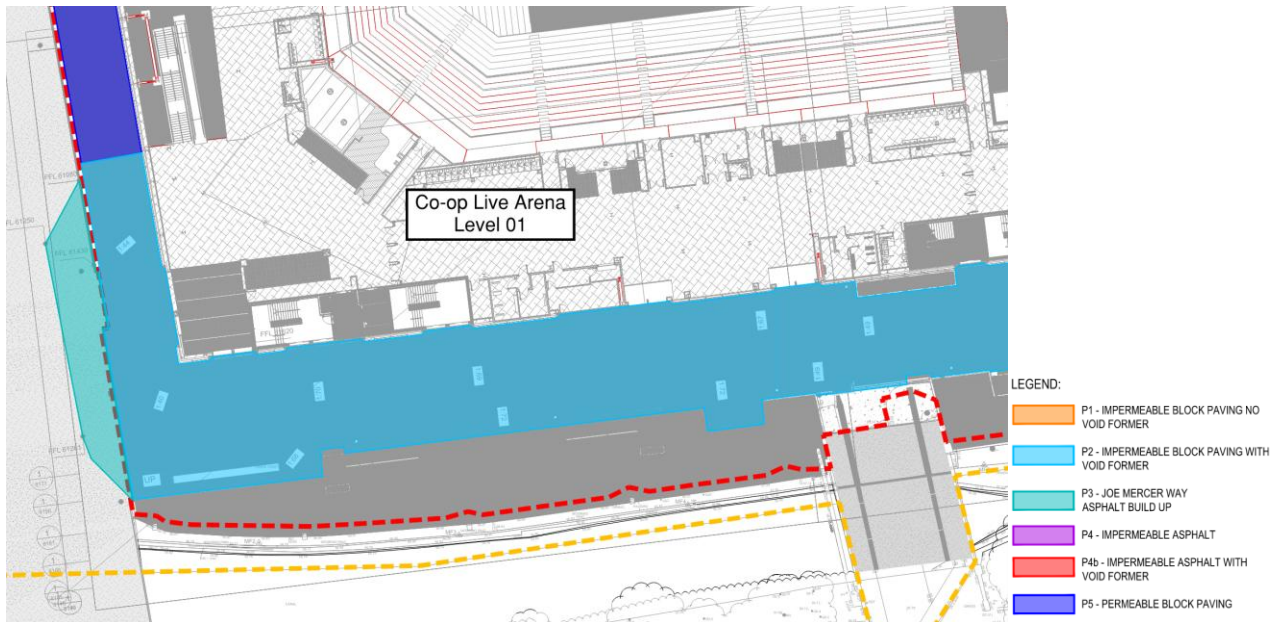


Figure 2—1 Existing Paving



Figure 2—2 Existing Drainage & Levels

2.2 Proposed Design

The following summarises the proposed surface water design:

- No change to the overall runoff volumes / rates as new containers will be placed on top of existing hard landscaping.
- Runoff from structure will be directed to existing outlets used for existing hardstanding to ensure no negative impact to existing downstream drainage.
- Runoff from some sections of roof will be collected in rainwater harvesting butts and used for irrigation.
- Runoff from roofs will generally be collected using roof gutters and connected to the existing podium channel drain outlets. This will convey runoff to the existing Co-op Live surface water system which will attenuation and restrict site discharge to pre-agreed discharge rates.

3 Foul Water Drainage

3.1 Existing Situation

Existing above and below ground foul water drainage is available for potential connection inside the existing Co-op Live building. The two images below show the existing above and below ground drainage.

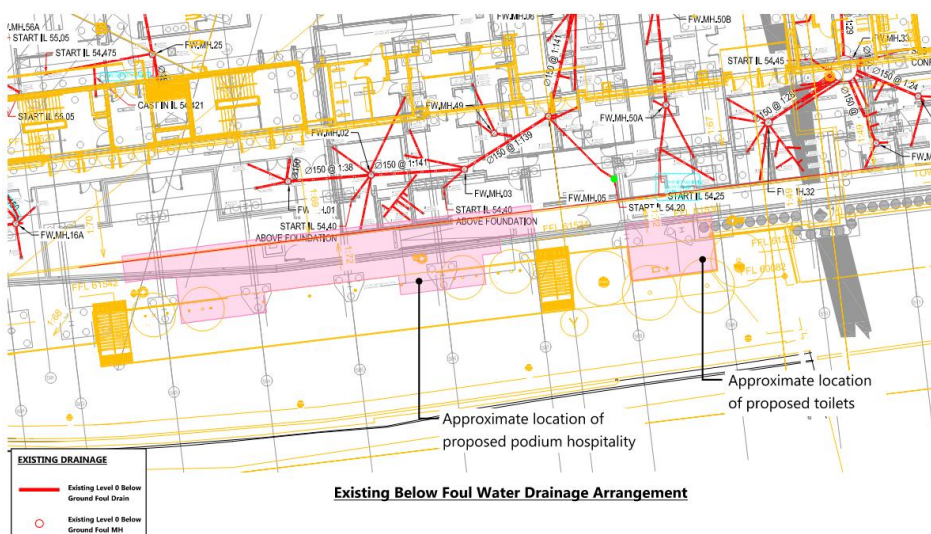


Figure 3—1 Existing below ground foul water drainage

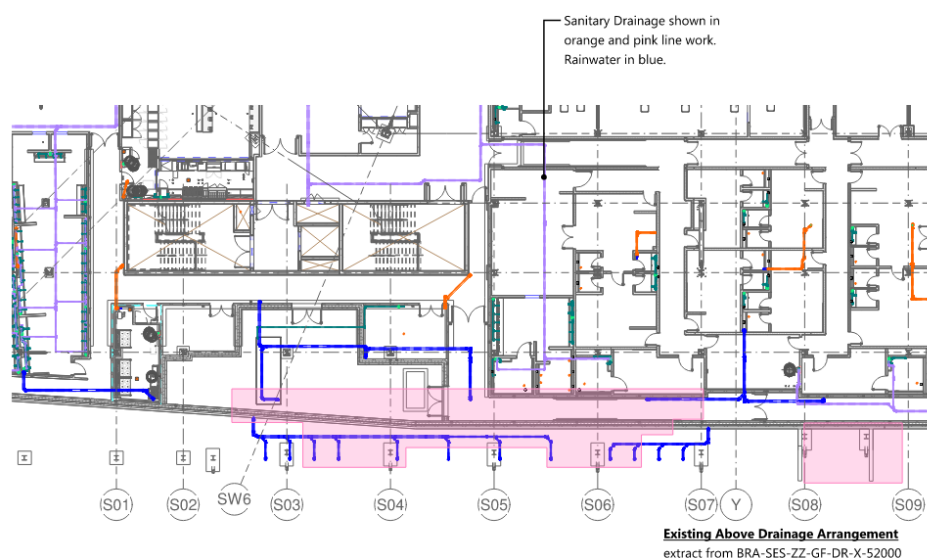


Figure 3—2 Existing above ground drainage

3.2 Proposed Design

Foul water disposal for the proposed toilet block and other sanitary appliances will be disposed as follows:

- Connect to existing above / below ground foul drainage within Co-op Live building. Falls and coordination with existing services will be carried out during detailed design.
- Flow capacity is expected to be available in the below ground drainage network for the additional flows from the Canalside site, further checks will be required once outfall points are confirmed.