

**Drainage Strategy**

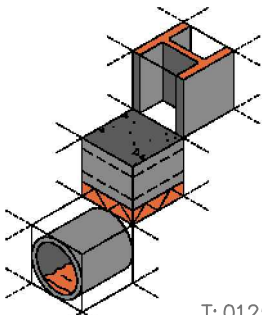

Permeable grassed area lost to impermeable new building roof = 277sq.m  
Existing total site impermeable area = 32,917sq.m  
Percentage increase = 0.084% i.e. minimal

Increased peak storm discharge to existing SW system = 3.9 L/s  
Existing SW system in the vicinity of the new amenity building cannot be proven adequate to take the additional storm flow.

New flow to be routed via the existing sunken loading dock. Flow to be controlled by a new submersible pump and storage provided by deliberate flooding of the recessed dock area. Storage volume required for 1 in 100 yr event plus 40% allowance for climate change, for 100% of 277sq.m roof area = 25cu.m. Equates to 50mm deep flood in the 29x16m sunken loading dock yard.

Yard area emptied by controlled pump flow into the existing SW system and ultimately discharged to the dyke water course. Controlled discharge also prevents overwhelming of the existing SW pipe system.

Localised short-term flooding of the yard during rain storms is accepted by the Client. The yard and associated walls are constructed from flood resilient materials and flooding will not restrict vehicle loading and unloading operations.

P1	First issue.	14.04.22	JR	
REV	DESCRIPTION	DATE	BY	
DRAWING STATUS - PLANNING				
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BAKKAVOR				
PROJECT				
BAKKAVOR BOSTON NEW AMENITY BLOCK				
TITLE				
DRAINAGE STRATEGY				
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P2021-035		100		P1