

zone of deliberate flooding of sunken loading dock yard approx 29 x 16m for storm events up to 1 in 100 plus 40% CC

ex. foul system modified to service the new amenity block nominal net increase of foul discharge due to decommissioning of existing internal amenities and removal of temporary toilet block

temporary toilet block removed on completion of new amenity block

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 subsmersible 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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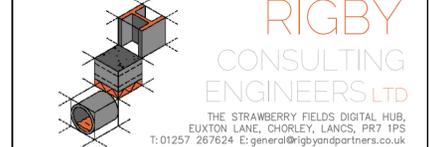
PROJECT

**BAKKAVOR BOSTON
NEW AMENITY BLOCK**

TITLE

DRAINAGE STRATEGY

A1	SCALE	DATE	DRAWN	CHECKED
	1:500	12/04/22	JR	GC



PROJECT No.	DRAWING No.	REV
P2021-035	100	P1