

Geotechnical Investigation
1:50,000
 Tamala Sand: pale and olive yellow, medium to coarse grained.

Site Investigation
 FILL SAND, overlying SAND.

Perth Groundwater Atlas
 Groundwater at RL 30.0m which is approximately 8.0m + below natural surface levels.

Stormwater Design Event
 100 ARI of 24 hour duration.

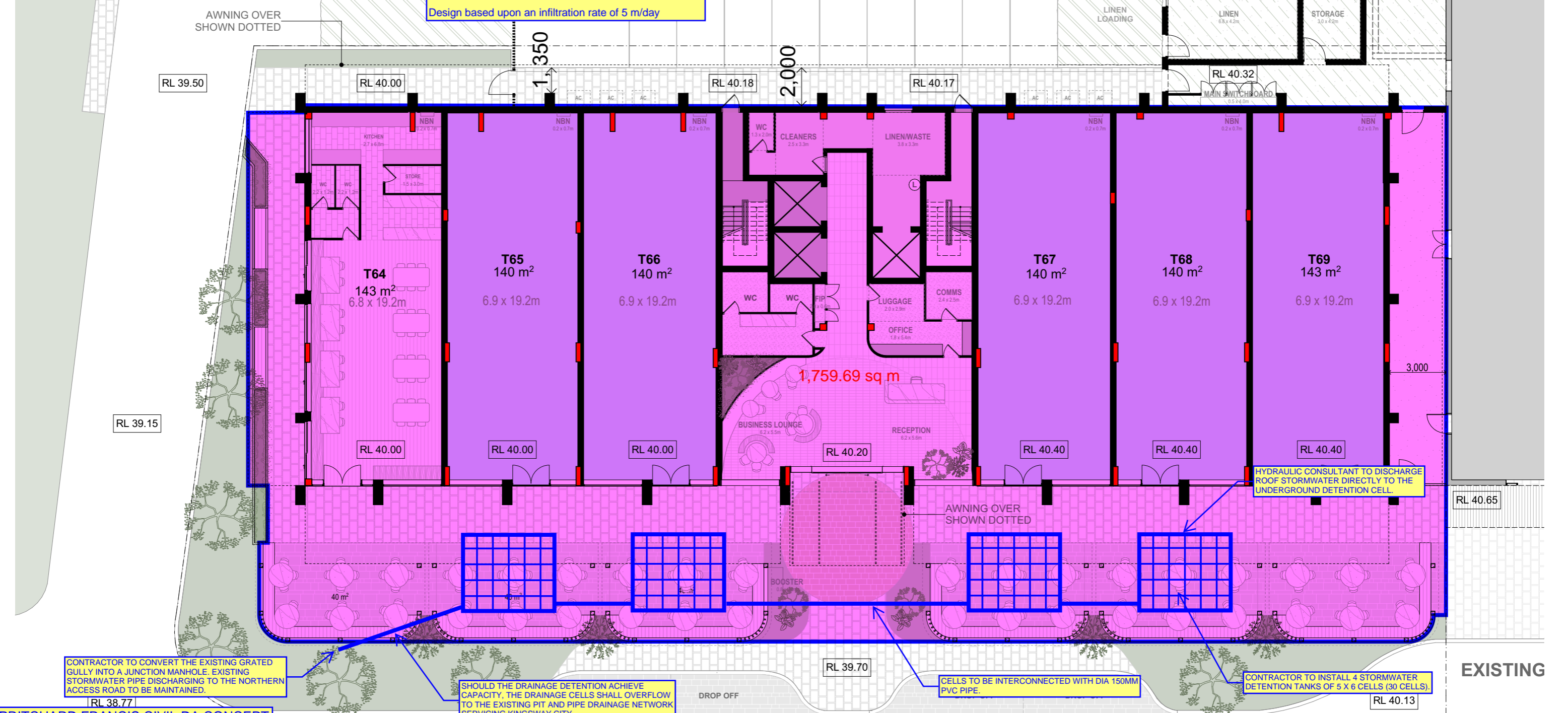
Stormwater Detention For Short Stay Apartments
 Pritchard Francis propose the following solution to cater for the Design Event

- 0 soakwells
- 120 GRAF Smart Cells in a single layer arrangement.

Volume Provided = 26.76 cubic metres
 Average Stormwater Detention = 15.2mm per equivalent square metre.
 Design based upon an infiltration rate of 5 m/day

Stormwater Detention For Carpark
 Additional stormwater detention not required.
 Existing carpark is serviced by the recently completed expansion (ALDI).
 The existing soakwells and underground storage (GRAF) will contain a 100 ARI of 24 hour duration.

OR



PRITCHARD FRANCIS CIVIL DA CONCEPT SHALL BE VERIFIED AND CERTIFIED BY PRITCHARD FRANCIS FOR BUILDING PERMIT APPLICATION.

Client: Tak Land Pty Ltd
 Project: Kingsway City Shopping Centre
 Drawing Set: 24059-C8-DG-04
 Revision: B
 Date: 14 May 2024

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SHOULD THE DRAINAGE DETENTION ACHIEVE CAPACITY, THE DRAINAGE CELLS SHALL OVERFLOW TO THE EXISTING PIT AND PIPE DRAINAGE NETWORK SERVICING KINGSWAY CITY.

CONTRACTOR TO INSTALL 4 STORMWATER DETENTION TANKS OF 5 X 6 CELLS (30 CELLS).

CELLS TO BE INTERCONNECTED WITH DIA 150MM PVC PIPE.

HYDRAULIC CONSULTANT TO DISCHARGE ROOF STORMWATER DIRECTLY TO THE UNDERGROUND DETENTION CELL.