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A0 ORIGINAL

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SURCHARGED OUTFALL

EA modelled flood levels adjacent flood plain (black ditch)

- 1 in 1,000yr Flood Level: 2.38M AOD
- 1 in 100yr+20% Flood Level: Ranges 1.72m to 1.83m AOD

Drainage Network Modelled with a constant surcharged outfall level of 1.80m AOD (800mm surcharge) for all storm events and associated storm durations

SURFACE WATER OUTFALL 1.0m AOD

Peak Allowable Discharge =**285 litres / second**

(Catchment of 19.07 hectares with allowable discharge rate of 15 litres/sec/hectare)

Run-off restricted @ final manhole upstream of Outfall

Nonresidential Land 0.9HA

100 Bed Hotel

Nonresidential Land 0.81HA

Commercial Area up to 10000sqm
Class B1 Enterprise Area upto 3000sqm

Nonresidential Land 0.91HA

Commercial Area up to 10000sqm
Class B1 Enterprise Area upto 3000sqm

Nonresidential Land 0.32HA

Parking Square

1500m3 ATTENUATION TANK
(50m x 21m x 1.5m deep x 95% Void Ratio)

TOP WATER LEVEL=3.700
SOFFIT LEVEL=3.200
INVERT LEVEL=1.710

CAR PARK LEVEL=4.80m AOD

NO RESTRICTION REQUIRED ON MAIN ATTENUATION TANK UNDERNEATH THE CAR PARK. SURFACE WATER WILL BACK UP IN THE OVERSIZED 900ø PIPE FROM THE FINAL MANHOLE

PERMEABLE PAVED CAR PARK WITH ATTENUATION VOLUME OF APPROX. 260m3 IN THE PERMEABLE SUB-BASE. RESTRICTED FLOW OF 5 L/S INTO TANK UNDERNEATH CAR PARK

Retail / Residential Block A Parcel 0.81HA

Retail / Residential Block B Parcel 0.56HA

Care Home 0.28HA

Parcel B1 0.45HA

Parcel A2 0.96HA

Parcel B6 0.31HA

Residential Parcel C1

Residential C2

Residential B2

Residential B4 (Partial)

GREENHOUSE

POLYTUNNELS

FOLIAGE

WATER

GRASS

ACCOMMODATION UNITS

CANTEEN

GRAVEL

STONE

New Foul Rising Main to connect to Existing Foul Rising Main through Parcel A1

As-built SA8
IL=3.763

ng Discharge from Parcel A1
.5 litres / Second

uation Already incorporated
he design of Parcel A1

Allowable Discharge=
5 litres / Second

SW Stub

ATTENUATION Model 415m3

ATTENUATION Model 506m3

ATTENUATION Model 126m3

ATTENUATION Model 310m3

ATTENUATION Model 345m3

ATTENUATION Model 520m3

ATTENUATION Model: 400m3

ATTENUATION Model: 92m3

Combined volume - Carehome & Parcel B1

Allowable Discharge=
10 litres / Second

Existing Discharge=
60 litres / Second

Existing Discharge from BOVIS SITE = **120 litres / Second**

Attenuation Already incorporated into the design of Parcel

Peak 1in1yr Flow=**61 l/s**

Peak 1in1yr Flow=**175 l/s**

SOFFIT/SOFFIT CONNECTIONS

UNRESTRICTED DISCHARGE

1in1yr = **6.3 l/s**
1in30yr = **18 l/s**
1in100yr+cc = **25.4 l/s**

1in1yr = **10.5 l/s**
1in30yr = **28.6 l/s**
1in100yr+cc = **26.2 l/s**

1in1yr = **8.4 l/s**
1in30yr = **23.2 l/s**
1in100yr+cc = **23.3 l/s**

1in1yr = **5.7 l/s**
1in30yr = **17.7 l/s**
1in100yr+cc = **32.4 l/s**

1in1yr = **5.3 l/s**
1in30yr = **15.7 l/s**
1in100yr+cc = **22.3 l/s**

1in1yr = **22.6 l/s**
1in30yr = **62.3 l/s**
1in100yr+cc = **74.1 l/s**
DISCHARGE

1in1yr = **18.4 l/s**
1in30yr = **55.6 l/s**
1in100yr+cc = **69.3 l/s**

1in1yr = **11.4 l/s**
1in30yr = **33.8 l/s**
1in100yr+cc = **41.9 l/s**

1in1yr = **2.5 l/s**
1in30yr = **12.6 l/s**
1in100yr+cc = **30.4 l/s**

1in1yr = **1.9 l/s**
1in30yr = **5.5 l/s**
1in100yr+cc = **28.1 l/s**

1in1yr = **1.4 l/s**
1in30yr = **5.6 l/s**
1in100yr+cc = **15.5 l/s**

1in1yr = **2.1 l/s**
1in30yr = **6.3 l/s**
1in100yr+cc = **15.5 l/s**

1in1yr = **3.8 l/s**
1in30yr = **11.5 l/s**
1in100yr+cc = **32.1 l/s**

1in1yr = **2.1 l/s**
1in30yr = **6.3 l/s**
1in100yr+cc = **18.5 l/s**

1in1yr = **2.8 l/s**
1in30yr = **8.5 l/s**
1in100yr+cc = **23.8 l/s**

1in1yr = **3.1 l/s**
1in30yr = **9.3 l/s**
1in100yr+cc = **25.9 l/s**

1in1yr = **2.1 l/s**
1in30yr = **6.3 l/s**
1in100yr+cc = **44.1 l/s**

1in1yr = **2.1 l/s**
1in30yr = **6.3 l/s**
1in100yr+cc = **18.5 l/s**

1in1yr = **2.1 l/s**
1in30yr = **6.3 l/s**
1in100yr+cc = **25.9 l/s**

1in1yr = **10.1 l/s**
1in30yr = **28.8 l/s**
1in100yr+cc = **90.9 l/s**

1in1yr = **21.1 l/s**
1in30yr = **60.2 l/s**
1in100yr+cc = **85.6 l/s**

1in1yr = **2.5 l/s**
1in30yr = **7.5 l/s**
1in100yr+cc = **21.1 l/s**

1in1yr = **2.8 l/s**
1in30yr = **8.5 l/s**
1in100yr+cc = **23.8 l/s**

1in1yr = **5.1 l/s**
1in30yr = **15.1 l/s**
1in100yr+cc = **39.3 l/s**

1in1yr = **4.6 l/s**
1in30yr = **13.7 l/s**
1in100yr+cc = **40.9 l/s**

1in1yr = **40.6 l/s**
1in30yr = **115.9 l/s**
1in100yr+cc = **566.1 l/s**

1in1yr = **9.2 l/s**
1in30yr = **31.5 l/s**
1in100yr+cc = **44.5 l/s**

Perm base Node 06

Perm base Node 05

Perm base Node 04

Perm base Node 03

Perm base Node 02

Perm base Node 01

Overflow into Adjacent Network

Oversized 900ø 1/400

Oversized 900ø 1/400 PIPES @ 1/400

225ø 1/150

225ø 1/250

300ø 1/250

450ø 1/200

450ø 1/158

450ø 1/220

375ø 1/200

Ex 300ø

Ex 375ø

Ex 225ø Stub

Ex 450ø

Ex 600ø

Ex 750ø

Ex 900ø

Ex 1050ø

Ex 1200ø

Ex 1350ø

Ex 1500ø

Ex 1800ø

Ex 2100ø

Ex 2400ø

Ex 2700ø

Ex 3000ø

Ex 3300ø

Ex 3600ø

Ex 3900ø

Ex 4200ø

Ex 4500ø

Ex 4800ø

Ex 5100ø

Ex 5400ø

Ex 5700ø

Ex 6000ø

Ex 6300ø

Ex 6600ø

Ex 6900ø

Ex 7200ø

Ex