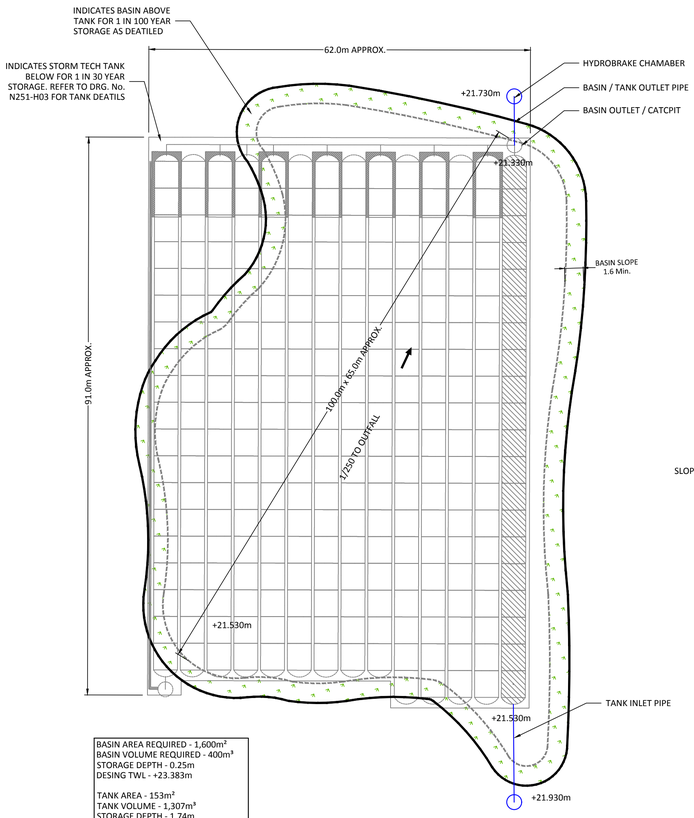
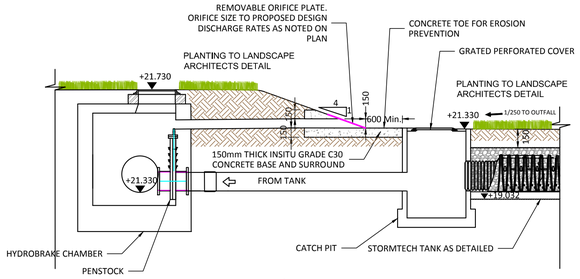


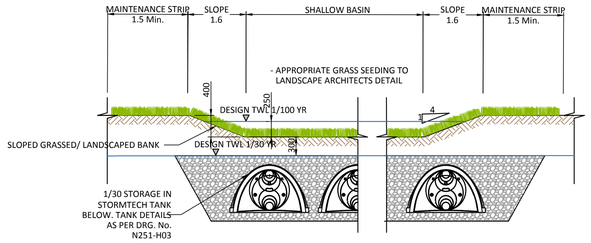
BASIN AREA REQUIRED - 1,600m²
BASIN VOLUME REQUIRED - 400m³
STORAGE DEPTH - 0.25m
DESING TWL - +23.383m

TANK AREA - 153m²
TANK VOLUME - 1,307m³
STORAGE DEPTH - 1.74m
DESING TWL - +20.772m

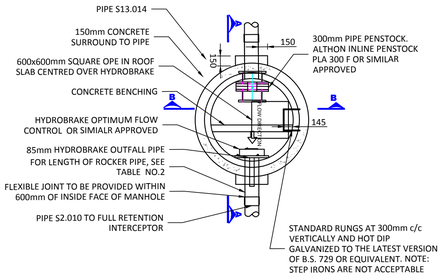
BASIN - PLAN



BASIN INLET / OUTLET - SECTION



DRY BASIN - TYPICAL SECTION



HYDROBRAKE PLAN

CARRIAGEWAY
ASPHALT CONCRETE

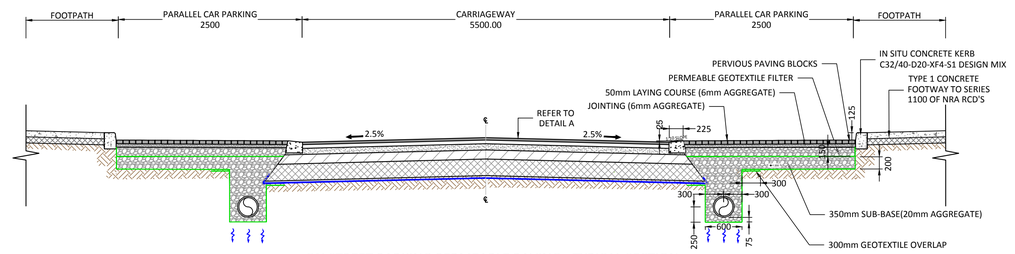
SURFACE COURSE: 40mm MINIMUM THICKNESS OF AC 10 CLOSE SURF 70/100 DES TO CLAUSE 3.1.9 OF S.R.W
BINDER COURSE: 60mm MINIMUM THICKNESS OF AC 20 DENSE BIN 70/100 DES TO CLAUSE 3.1.5 OF S.R.W
BASE COURSE: 100mm MINIMUM THICKNESS OF AC 32 DENSE BASE 70/100 DES TO CLAUSE 3.1.2 OF S.R.W
SUBBASE: 150mm MINIMUM THICKNESS OF GRANULAR FILL MATERIAL TO CLAUSE 804 OF THE S.R.W.
CAPPING LAYER: SEE TABLE 1 FOR THE MINIMUM THICKNESS OF CLASS 6F1 OR 6F2 AS WELL AS TABLE 6/1 OF THE 600 SERIES OF THE S.R.W.
PERMEABLE GEOTEXTILE WITH A MIN. 135 l/m²/s AS PER BS EN ISO 10319:2015

TABLE 1: CAPPING LAYER DEPTH

THE MINIMUM REQUIRED THICKNESS OF NON-FROST SUSCEPTIBLE CAPPING MATERIAL IS SHOWN HEREUNDER:

CBR SUBGRADE (%)	<2.5	3	4	5-15	>15
THICKNESS OF CAPPING LAYER (mm)	SPECIALIST GEOTECHNICAL ADVISE REQUIRED	350	300	250	150

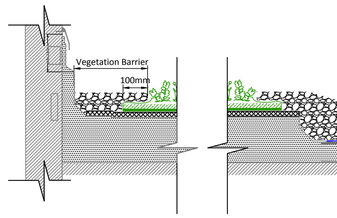
CBR TESTS SHALL BE CARRIED OUT AT A MINIMUM OF 60m INTERVALS



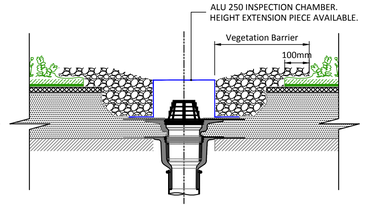
ON STREET PARKING PERMEABLE PAVING - TYPICAL SECTION

GREEN ROOF KEY

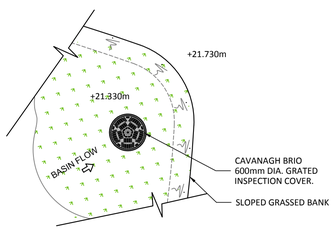
- BAUDER XF301 SEDUM VEGETATION BLANKET 28mm
- BAUDER SDF DRAINAGE MAT 20mm
- ADDITIONAL BAUDER CAPPING SHEET / MEMBRANE TO SECURE THE METAL TRIM
- BAUDER WATERPROOFING SYSTEM
- DECK / SUBSTRATE
- VEGETATION BARRIER
- BAUDER AL40 EDGE RETENTION/DRAINAGE TRIM



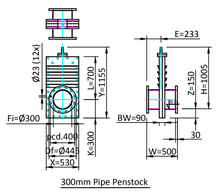
BAUDER GREEN ROOF PARAPET UPSTAND



BAUDER GREEN ROOF OUTLET



BASIN INET / OUTLET - PLAN

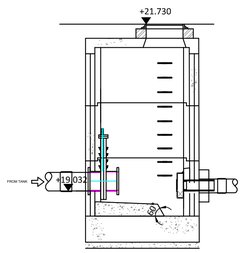


300mm Pipe Penstock

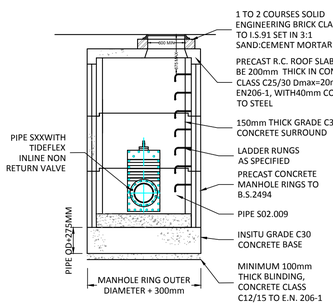
HYDROBRAKE SPECIFICATION

Techincal Specification		
Control Point	Head (m)	Flow (l/s)
Design Point	2.540	9.600
Flush Flow	0.526	8.086
Kick Flow	1.078	6.413
Mean Flow Overhead Range		4.618
Physical Specification		
Min. Block Width (L)	940mm	
Min. Block Height (D)	1080mm	
Min. Sump Depth (K)	430mm	
Min. Sump Width (J)	260mm	
Min. Outlet Diameter (P)	150Ø	

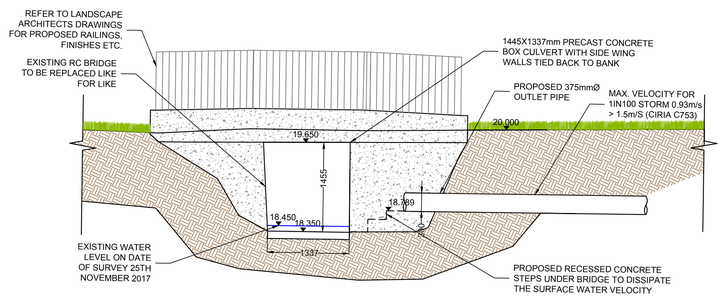
HYDROBRAKE OPTIMUM MODEL
No.- SHE-0121-9600-2540-9600



HYDROBRAKE SECTION A-A



HYDROBRAKE SECTION B-B



OUTFALL DETAIL

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NOTES

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2. This drawing to be read in conjunction with all other Engineering drawings and all other relevant drawings and Specifications.
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Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By
P1	14/08/2017	ISSUED FOR PLANNING	JB	AL
P2	15/12/2017	ISSUED FOR PLANNING	JS	JB
P3	16/05/2018	ISSUED FOR COMPLIANCE	JB	AH
P4	12/04/2019	ISSUED FOR COMPLIANCE	AF	JS
P5	23/05/2019	ISSUED FOR PLANNING	AF	JB
P6	30/08/2019	ISSUED FOR INFORMATION	M	JB
P7	13/09/2019	ISSUED FOR INFORMATION	RB	JB

Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By

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ISO 9001:2008 QUALITY | OHSAS 18001:2007 HEALTH & SAFETY | ISO 14001:2004 ENVIRONMENTAL

Client	Crekav Trading GP Limited.
Project	St. Paul's Residential Development.
Title	Proposed SUDs Details

Drn by	Chkd by	Aprvd by	Dwg. No.	Revision
JB	AL	TH	N251 -H05	P7
Date 15.12.17	Scale AS SHOWN			

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