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Notes

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- ALIGNMENT OF SURFACE WATER NETWORK IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND SUBJECT TO CHANGE FOLLOWING DETAILED DESIGN.
- BASIN DESIGN SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND SUBJECT TO DETAILED DESIGN.
- SWALE ALIGNMENT SUBJECT TO DETAILED DESIGN AND SUBSEQUENT RESERVED MATTERS APPLICATIONS.
- PEAK DISCHARGE RATES FROM THE PROPOSED DEVELOPMENT TO BE LIMITED TO 3.0 l/s/m (GREENFIELD QBAR) FOR ALL RETURN PERIODS UP TO THE 1 IN 100 YEAR STORM EVENT PLUS CLIMATE CHANGE ALLOWANCE.
- ATTENUATION VOLUMES SHOWN ARE INDICATIVE ONLY AND SUBJECT TO REVISION AS THE DEVELOPMENT PROPOSALS PROGRESS IN DETAIL.
- DETAILS OF DRAINAGE FOR CATCHMENT 5A (SCHOOL) TO BE CONFIRMED DURING DETAILED DESIGN OF SCHOOL PROPOSALS.

P07 ADDITIONAL AMENDMENT PRIOR TO PLANNING SUBMISSION	LWD	RF	2026.02.03
P06 MINOR AMENDMENT PRIOR TO PLANNING SUBMISSION	LWD	RF	2025.11.17
P05 ISSUED FOR OUTLINE PLANNING	LD	RF	2025.10.30
P04 STRATEGY UPDATE	LD	RF	2025.09.18
P03 UPDATED CATCHMENTS	RAB	LD	2025.01.14
P02 UPDATED BASIN AND SWALE LOCATIONS AS WELL AS SURFACE WATER PIPE RUNS	TM	DB	2023.12.08
P01 FIRST ISSUE	TM	AJ	2023.08.11
Issued/Revision	By	Appd	YYYY.MM.DD
	TM	DB	2023.08.11
	Dwn.	Dsgn.	Chkd.
			YYYY.MM.DD

Issue Status

S2 - FOR INFORMATION

This document is suitable only for the purpose noted above.
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Client/Project Logo

BLOOR HOMES

Client/Project
BLOOR HOMES SOUTHERN

SOUTHLEIGH ROAD, HAVANT

Title
SURFACE WATER DRAINAGE STRATEGY

Project No.
332310755

A1 Scale
N.T.S

Revision
P07

Drawing No.
SRH-STN-HDG-XX-DR-CD-0001

DETENTION BASIN - DB-1A.1
BASE OF BASIN: 23.50mAOD
MAX WATER LEVEL: 24.70mAOD
FREEBOARD LEVEL: 15.00mAOD
TOTAL STORAGE VOLUME: 613m³
RESTRICTED DISCHARGE TO DB-1A.2

DETENTION BASIN - DB-1A.2
BASE OF BASIN: 21.00mAOD
MAX WATER LEVEL: 22.20mAOD
FREEBOARD LEVEL: 22.50mAOD
TOTAL STORAGE VOLUME: 508m³
RESTRICTED DISCHARGE TO DB-1A.3

DETENTION BASIN - DB-1A.3
BASE OF BASIN: 19.50mAOD
MAX WATER LEVEL: 20.70mAOD
FREEBOARD LEVEL: 21.00mAOD
TOTAL STORAGE VOLUME: 398m³
RESTRICTED DISCHARGE TO DB-1A.4

DETENTION BASIN - DB-2A.1
BASE OF BASIN: 14.95mAOD
MAX WATER LEVEL: 15.95mAOD
FREEBOARD LEVEL: 16.25mAOD
TOTAL STORAGE VOLUME: 1827m³
RESTRICTED DISCHARGE TO DB-2A.2

DETENTION BASIN - DB-2A.2
BASE OF BASIN: 14.45mAOD
MAX WATER LEVEL: 15.20mAOD
FREEBOARD LEVEL: 15.50mAOD
TOTAL STORAGE VOLUME: 3854m³
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 29.3 l/s
(QBAR FOR CATCHMENTS 1A AND 2A)

DB-2A.2 TO DISCHARGE INTO PROPOSED
SW DRAINAGE NETWORK IN D/S
CATCHMENT 4A

GEOCELLULAR CRATES - GC-2B
BASE OF CRATES: 12.00mAOD
TOP OF CRATES: 12.40mAOD
COVER LEVEL: 13.50mAOD
TOTAL STORAGE VOLUME: 1084m³
RESTRICTED DISCHARGE TO SW-2C

DETENTION BASIN - DB-1A.4
BASE OF BASIN: 16.90mAOD
MAX WATER LEVEL: 18.10mAOD
FREEBOARD LEVEL: 18.40mAOD
TOTAL STORAGE VOLUME: 397m³
RESTRICTED DISCHARGE TO DB-1A.5

DETENTION BASIN - DB-1A.5
BASE OF BASIN: 15.00mAOD
MAX WATER LEVEL: 16.00mAOD
FREEBOARD LEVEL: 16.30mAOD
TOTAL STORAGE VOLUME: 2775m³
RESTRICTED DISCHARGE TO DB-2A.2

DETENTION BASIN - DB-1B
BASE OF BASIN: 12.75mAOD
MAX WATER LEVEL: 13.75mAOD
FREEBOARD LEVEL: 14.05mAOD
TOTAL STORAGE VOLUME: 1200m³
RESTRICTED DISCHARGE TO SW-1B

SWALE - SW-1B
D/S BASE OF SWALE: 12.45mAOD
D/S MAX WATER LEVEL: 13.15mAOD
D/S FREEBOARD LEVEL: 13.45mAOD
LONGITUDINAL SLOPE: 1:500
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 6.3 l/s
(QBAR FROM CATCHMENT 1B)

DETENTION BASIN - DB-3
BASE OF BASIN: 10.10mAOD
MAX WATER LEVEL: 11.10mAOD
FREEBOARD LEVEL: 11.40mAOD
TOTAL STORAGE VOLUME: 1822m³
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 8.5 l/s
(QBAR FOR CATCHMENT 3)

SWALE - SW-2C
D/S BASE OF SWALE: 11.00mAOD
D/S MAX WATER LEVEL: 12.00mAOD
D/S FREEBOARD LEVEL: 12.40mAOD
LONGITUDINAL SLOPE: 1:450
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 9.2 l/s
(QBAR FOR CATCHMENTS 2B AND 2C)

DETENTION BASIN - DB-5B
BASE OF BASIN: 8.70mAOD
MAX WATER LEVEL: 9.70mAOD
FREEBOARD LEVEL: 10.00mAOD
TOTAL STORAGE VOLUME: 2472m³
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 11.5 l/s
(QBAR FOR CATCHMENT 5B)

DETENTION BASIN - DB-5C
BASE OF BASIN: 9.30mAOD
MAX WATER LEVEL: 10.40mAOD
FREEBOARD LEVEL: 10.70mAOD
TOTAL STORAGE VOLUME: 830m³
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 17.4 l/s
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SWALE - SW-5C.1
D/S BASE OF SWALE: 10.50mAOD
D/S MAX WATER LEVEL: 11.40mAOD
D/S FREEBOARD LEVEL: 11.70mAOD
LONGITUDINAL SLOPE: 1:1000
RESTRICTED DISCHARGE TO SW-5C.2

SWALE - SW-5C.2
D/S BASE OF SWALE: 9.75mAOD
D/S MAX WATER LEVEL: 10.70mAOD
D/S FREEBOARD LEVEL: 11.00mAOD
LONGITUDINAL SLOPE: 1:1000
RESTRICTED DISCHARGE TO SW-5C.3

SWALE - SW-5C.3
D/S BASE OF SWALE: 9.60mAOD
D/S MAX WATER LEVEL: 10.60mAOD
D/S FREEBOARD LEVEL: 10.90mAOD
LONGITUDINAL SLOPE: 1:1000
RESTRICTED DISCHARGE TO DB-5C

DETENTION BASIN - DB-4A
BASE OF BASIN: 10.75mAOD
MAX WATER LEVEL: 11.60mAOD
FREEBOARD LEVEL: 12.00mAOD
TOTAL STORAGE VOLUME: 3869m³
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 17.7 l/s
(QBAR FOR CATCHMENT 4A)

DETENTION BASIN - DB-4B/C/D
BASE OF BASIN: 10.50mAOD
MAX WATER LEVEL: 11.30mAOD
FREEBOARD LEVEL: 11.60mAOD
TOTAL STORAGE VOLUME: 10793m³
RESTRICTED DISCHARGE FROM DEVELOPMENT @ 47.4 l/s
(QBAR FOR CATCHMENTS 4B, 4C AND 4D)

- KEY:**
- SITE BOUNDARY
 - ATTENUATION BASIN
 - SWALE
 - BASIN / SWALE NUMBER
 - EXISTING WATERCOURSE
 - CATCHMENT 1
 - CATCHMENT 2
 - CATCHMENT 3
 - CATCHMENT 4
 - CATCHMENT 5
 - CATCHMENT BOUNDARY
 - FLOW DIRECTION
 - PROPOSED MANHOLE
 - PROPOSED MANHOLE FLOW CONTROL
 - PROPOSED HEADWALL
 - GEOCELLULAR STORAGE
 - INDICATIVE SWALE CHECK DAM LOCATIONS