

Stormwater Management Plan summary



SMP Title	Kahawai Point Special Housing Area Stormwater Management Plan
SMP Date	July 2016
SMP Version	Rev E
SMP prepared by	Stormwater Solutions (CKL)
Location	Glenbrook
Consolidated Receiving Environment	Manukau Harbour
Stormwater Catchment	Taihiki River
Brownfield / Greenfield	Greenfield
SMP Purpose	Plan Change
Unitary Plan Precinct	I453 Glenbrook 3
Legacy NDC	DIS60084016
Date SMP Adopted	11-09-2018
HW Reference	2022-003

Stormwater management requirements

Stormwater management sub catchment	Proposed land use	Receiving environment	Water quality management	Hydrology mitigation (retention)	Hydrology mitigation (detention)	Flood management	Outlet design	Assets to be vested with council	General comments
6.1 B-1 C-1 3.6 4.1 4.6 5.1	<ul style="list-style-type: none"> Residential - Single House Zone Open Space – Informal Recreation Zone 	Coast	Devices sized for water quality treatment only	Nil	Nil	Nil	<ul style="list-style-type: none"> Reno mattress Baffle block and rip rap Device empathic to geotechnical and coastal environment constraints 	<ul style="list-style-type: none"> Road reserve devices Reticulation and outfalls 	SMP only provides stormwater mitigation design detail for Stages 1 and 2 currently in progress. Drawing SK204 provides detail as regarding at source retention and detention obligations. Remaining stages to be assessed and completed either via SMP update or new SMP.
5.2 5.3 1.2 1.3 1.4 1.5 1.6 B-2 B-3 D-1 G-1 3.7 3.8		Stream	Water quality treatment via at source retention and detention devices	Retention at source (5mm)	Detention at source	Nil	<ul style="list-style-type: none"> Reno mattress Baffle block and rip rap 	<ul style="list-style-type: none"> Road reserve devices Reticulation and outfalls 	

Kahawai Point Stormwater Management Plan Summary

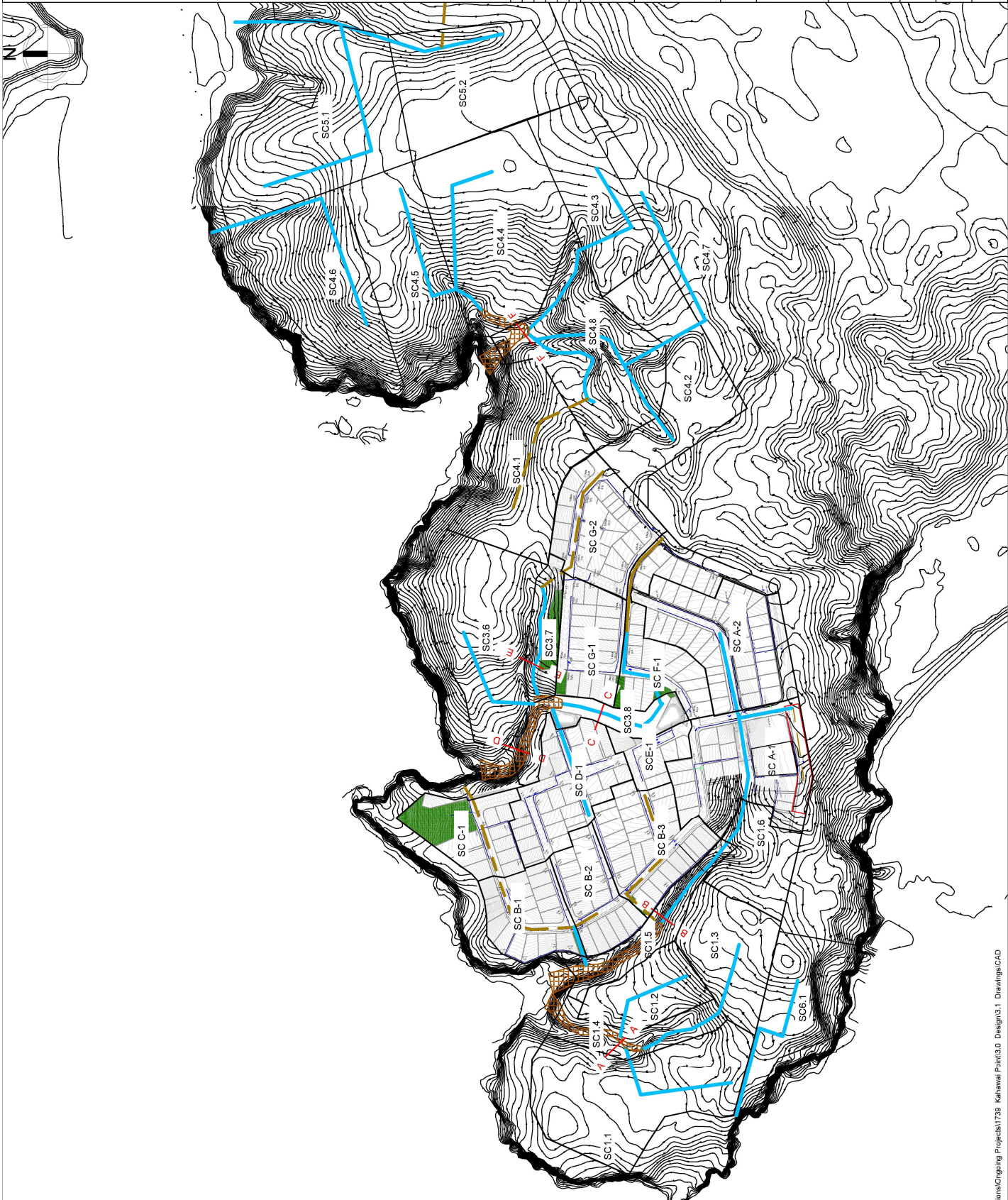
Stormwater management sub catchment	Proposed land use	Receiving environment	Water quality management	Hydrology mitigation (retention)	Hydrology mitigation (detention)	Flood management	Outlet design	Assets to be vested with council	General comments
4.7 4.2 4.3 4.4 4.8 A-1 A-2 E-1 G-2 F-1		Stream	Water quality treatment via at source retention devices	Retention at source (5mm)	Detention in offsite detention basins	Nil	<ul style="list-style-type: none"> • Reno mattress • Baffle block and rip rap 	<ul style="list-style-type: none"> • Road reserve devices • Reticulation and outfalls • Detention basins 	
1.1 4.5		Coast and Stream	<ul style="list-style-type: none"> • Water quality treatment via at source retention devices and water quality only treatment devices 	<ul style="list-style-type: none"> • Not required for discharge to the coast • Retention at source (5mm) 	<ul style="list-style-type: none"> • Not required for discharge to the coast • Detention at source 	Nil	<ul style="list-style-type: none"> • Reno mattress • Baffle block and rip rap • Device empathic to geotechnical and coastal environment constraints 	<ul style="list-style-type: none"> • Road reserve devices • Reticulation and outfalls 	

Notes:

This document is prepared to provide the user with a summary of the stormwater management requirements within the adopted Stormwater Management Plan. To see the full Stormwater Management Plan please contact HWDevelopment@aucklandcouncil.govt.nz

Catchment map

Next page



NOTES:

1. COPYRIGHT - ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM WITHOUT WRITTEN APPROVAL FROM STORMWATER SOLUTIONS CONSULTING LIMITED.
2. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS, LEVELS AND ANGLES ON SITE PRIOR TO COMMENCING CONSTRUCTION. ALL DIMENSIONS ONLY DO NOT SCALE. ANY DISCREPANCIES MUST BE REPORTED TO THE PROJECT MANAGER.

REFERENCES:

- LEGEND:**
- Existing Catchment Boundary
 - Development Extents
 - Sub Catchment Boundary
 - Minor OLFPP (0.0m²/s < Q < 0.5m³/s)
 - Major OLFPP (0.5m²/s < Q < 2.0m³/s)
 - Flood plain (Q > 2.0m³/s)
 - Stream Cross Section assessment point
 - Sub-catchment

REV#	DATE	AMENDMENT:
B	NOV 16	SUB CATCHMENT UPDATE
C	DEC 16	SUB CATCHMENT UPDATE
D	MAR 16	OUTFALL UPDATE

CLIENT:
KAHAWAI POINT LIMITED



PROJECT:
KAHAWAI POINT

TITLE:
PROPOSED 10 AND 100yr CATCHMENT BOUNDARY AND OVERLAND FLOW PATH

DATE:	MAR 2016	SCALE:	1:5000
DRAWING NO:	1739/SK102	REVISION:	D
DRAWN:	AC	CHECKED:	B.R.

NOTES:
 1. COPYRIGHT - ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM WITHOUT WRITTEN APPROVAL FROM STORMWATER SOLUTIONS CONSULTANTS.
 2. CONSULTANTS TO CHECK AND VERIFY ALL DIMENSIONS, LEVELS AND ANGLES ON SITE PRIOR TO COMMENCING WORK. REFER FIGURED DIMENSIONS ONLY. DO NOT SCALE ANY DIMENSIONS. REPORT ANY DISCREPANCIES TO THE PROJECT MANAGER.

REFERENCES:

- LEGEND:**
- Existing Catchment Boundary
 - Development Extents
 - Sub-Catchment Boundary
 - Minor OLPF (0.0m²/s < Q < 0.5m²/s)
 - Major OLPF (0.5m²/s < Q < 2.0m²/s)
 - Flood plain (Q > 2.0m²/s)
 - Stream Cross Section assessment point
 - Sub-catchment

SC 4.3

REV	DATE	AMENDMENT:
B	DEC 15	SUB-CATCHMENT UPDATE
C	MAR 16	OUTFALL LABELS

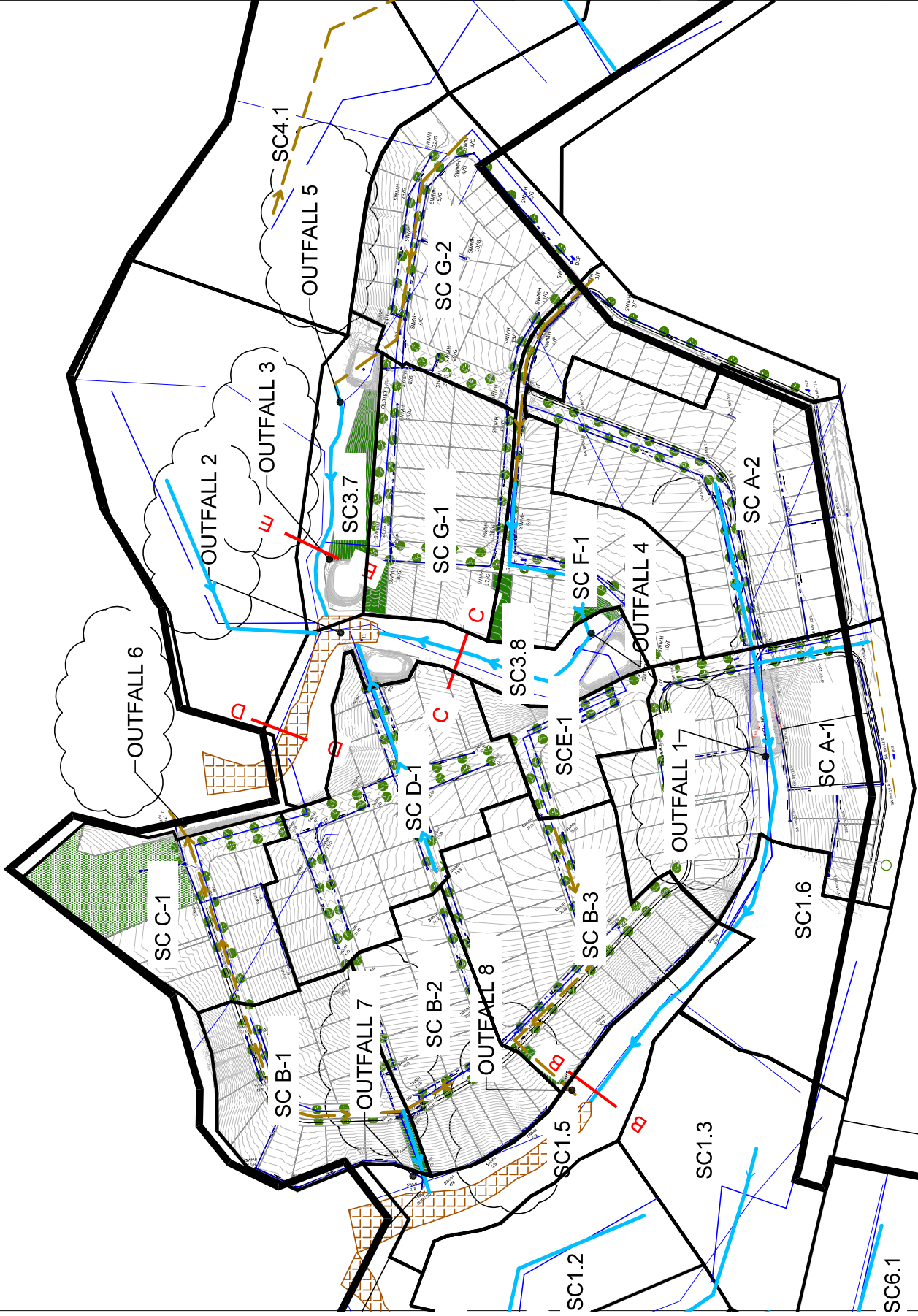
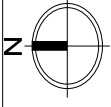
CLIENT:
 KAHAWAI POINT LIMITED

Stormwater SOLUTIONS
 Stormwater Solutions Consulting Ltd
 PO Box 25 598, St Heliers, Auckland 1740
 www.stormwatersolutions.co.nz

PROJECT:
 KAHAWAI POINT

TITLE:
 QUALIFYING DEVELOPMENT
 PROPOSED 10 & 100yr CATCHMENT
 BOUNDARY and OLPF

DATE:	MAR 2016	SCALE:	1:2500 (A3)
DRAWING NO.:	1739/SK201	REVISION:	C
DRAWN:	AC	CHECKED:	B.R.





NOTES:
 1. COPYRIGHT - ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM WITHOUT WRITTEN APPROVAL FROM STORMWATER SOLUTIONS CONSULTANTS LTD.
 2. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS, LEVELS AND ANGLES ON SITE PRIOR TO COMMENCING WORK. REFER FIGURED DIMENSIONS ON DRAWINGS TO THE PROJECT MANAGER. DISCREPANCIES MUST BE REPORTED TO THE PROJECT MANAGER.

REFERENCES:

- LEGEND:**
- Development Extents
 - Sub Catchment Boundary
 - Stormwater Retention Basin
 - Stormwater Retention Basin Location

REV	DATE	AMENDMENT:
B	09/16	Basin Amendments
C	08/16	Basin Amendments

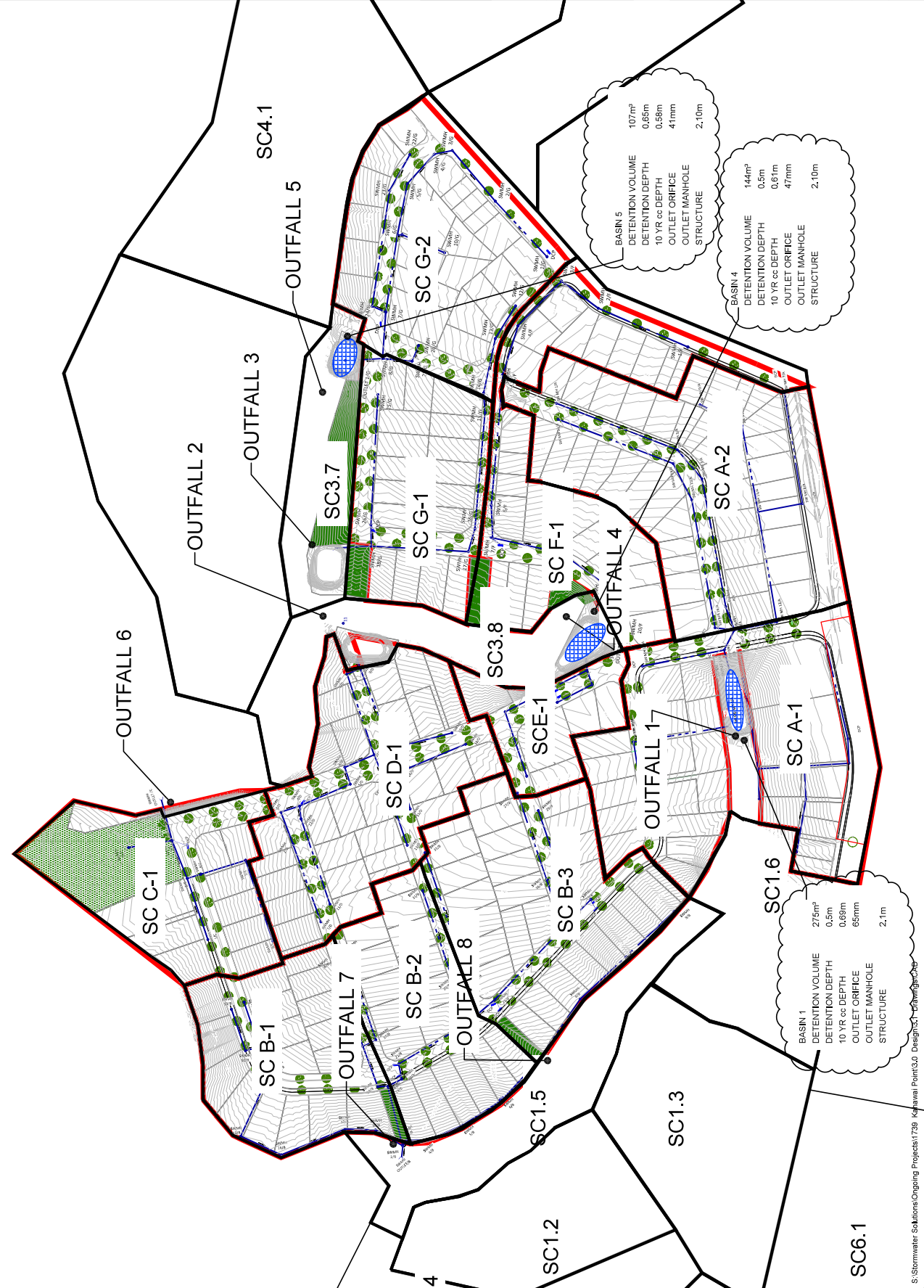
CLIENT:
 KAHAWAI POINT LIMITED

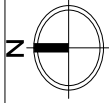


PROJECT:
 KAHAWAI POINT

TITLE:
 QUALIFYING DEVELOPMENT
 STORMWATER RETICULATION AND
 OUTFALL

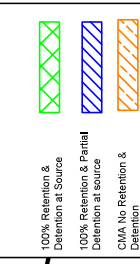
DATE:	JUN 2016	SCALE:	1:2500 (A3)
DRAWING NO.:	1739/SK203	REVISION:	C
DRAWN:	TW	CHECKED:	B.R.





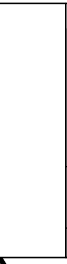
NOTES:
1. **COPYRIGHT** - ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF STORMWATER SOLUTIONS CONSULTING LIMITED.
2. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS, LEVELS AND ANGLES OF ALL WORK. ANY DISCREPANCIES MUST BE REPORTED TO THE PROJECT MANAGER. ROAD AND DRIVE IMPERVIOUS SURFACES AS PER WATER ACCOUNTING SUMMARY

REFERENCES:
LEGEND:
Development Extents
Sub Catchment Boundary
Stormwater Retention
100% Retention & Detention at Source
100% Retention & Partial Detention at source
CMA No Retention & Detention



REV	DATE	AMENDMENT:
B	12/16	REVISED SCHEME PLAN
C	03/16	Retention areas
D	07/16	SMAF

CLIENT:
KAHAWAI POINT LIMITED



Stormwater Solutions Consulting Ltd
PO Box 25 598, St Heliers, Auckland 1740
www.stormwatersolutions.co.nz

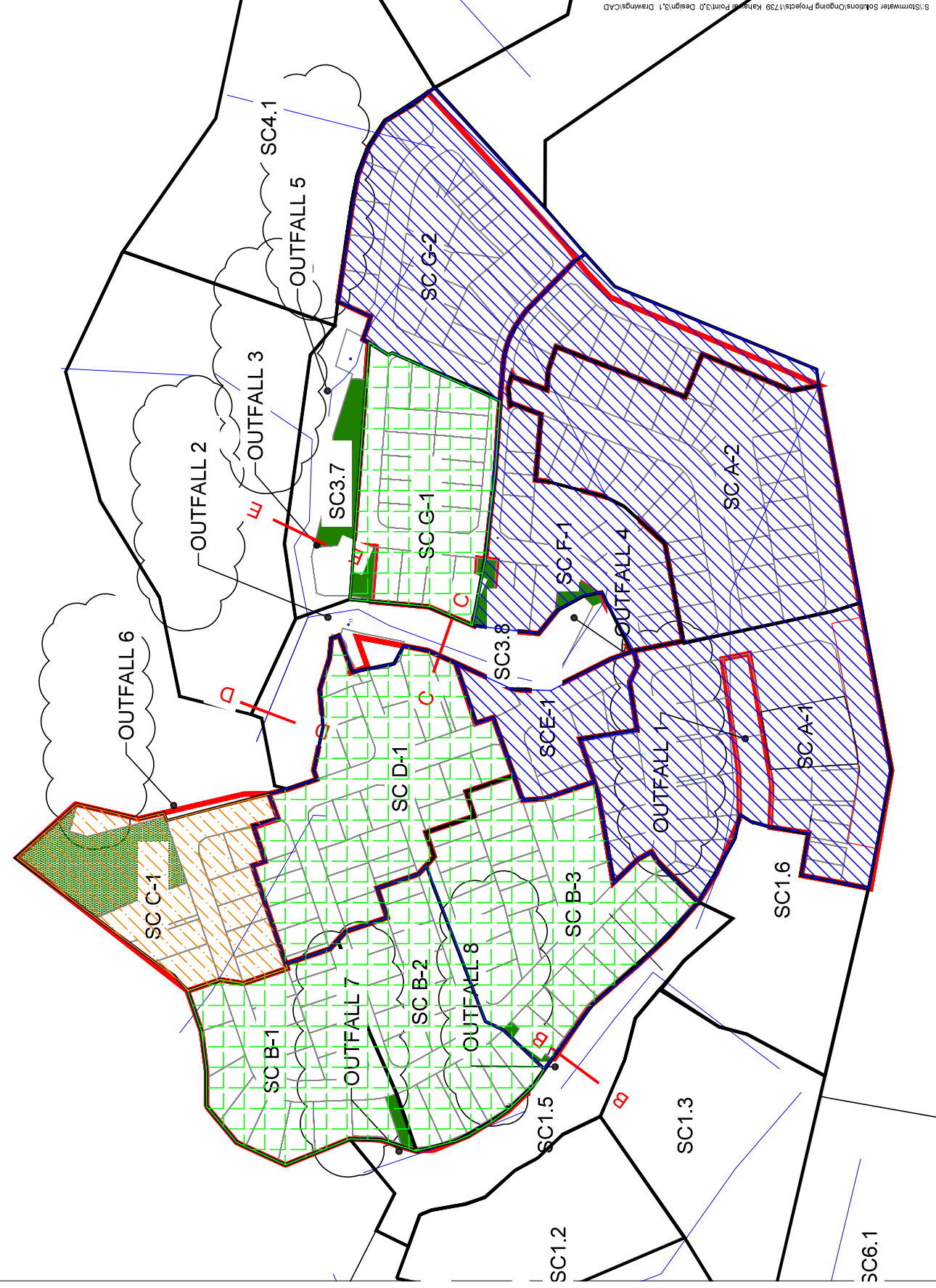
PROJECT:
KAHAWAI POINT

TITLE:
QUALIFYING DEVELOPMENT
SMAF APPLICATION

DATE: JUL 2016
SCALE: 1:2500 (A3)

DRAWING NO: 1739/SK204
REVISION: D

DRAWN: AC
CHECKED: B.R.



S:\Stormwater Solutions\Ongoing Projects\1739 Kahawai Point\3. Design\3.1 Drawings\CAD