A1

DATE PLOTTED: 29 September 2021 3:48 PM BY: SGCEMAC10

DESIGN NOTES:

- 20,000 LITRES RAINWATER TANK TO BE PROVIDED FOR THE RESIDENTIAL FLAT BUILDING AS A PART OF WATER QUALITY COMMITMENT, AS PER WATER MANAGEM,ENT REPORT PREPARED BY 'S&G CONSULTANTS P/L'
- RAINWATER REUSE TO BE USED FOR LAUNDRY, TOILET FLUSHING & WATERING THE LANDSCAPE AREA PURPOSES.
- MINIMUM 157.44m³ OF OSD VOLUME IS REQUIRED FOR CATCHMENT 2 AS PER WATER MANAGEM,ENT REPORT PREPARED BY 'S&G CONSULTANTS P/L'; WHICH HAS BEEN PROVIDED THROUGH 'OSD TANK - 2
- MINIMUM 101.51m³ OF OSD VOLUME IS REQUIRED FOR CATCHMENT 3 AS PER WATER MANAGEM,ENT REPORT PREPARED BY 'S&G CONSULTANTS P/L' WHICH HAS BEEN PROVIDED THROUGH 'OSD TANK - 3

Issue	Last revision title	by	Date	Status
G	ISSUE FOR S4.55 / UPDATE ARCHITECTURAL PLANS	MS	28.09.21	2
F	ISSUE FOR S4.55 / UPDATE ARCHITECTURAL PLANS	MS	31.08.21	2
E	ISSUE FOR S4.55	MS	03.05.21	2
D	ISSUE FOR DA	MS	26.05.20	2
C	ISSUE FOR DA	MS	15.05.20	2
B	ISSUE FOR DA	RJ	05.05.20	2
A	ISSUE FOR DA	RJ	30.04.20	2
P3	PRELIMINARY ISSUE	MS	24.02.20	1
P2	PRELIMINARY ISSUE	MS	17.01.20	1

Issuer internal sequence and revision history

1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

ENGINEERS AUSTRALIA
Chartered Professional Engineer
MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

QUALITY CONTROL

DRAWN	MS	DATE	28.09.21
CHECKED	SH	DATE	28.09.21
DESIGNED	MS	DATE	28.09.21
VERIFIED	SH	DATE	28.09.21
APPROVED	SH	DATE	28.09.21

WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD

Scales

0m 2 4 6 8 10
SCALE 1:200 ON ORIGINAL SIZE

CLIENT
THE KNOWLES GROUP- ARCARE

ARCHITECT
V/A ARCHITECTS
LEVEL 3, 377 LONSDALE STREET
+61 3 8678 3300
viaarchitects.com.au

SGC
Suite 5.03, Level 5,
156 PACIFIC HIGHWAY,
ST. LEONARDS, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.au
Web: www.sgce.com.au
A.B.N. 21 118 222 530

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
25-27 WARRIEWOOD ROAD,
WARRIEWOOD - STAGE II

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	3 OF 8	1:200 @ A1

Drawing Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title
STORMWATER CONCEPT DESIGN
GROUND FLOOR PLAN

Project No	Drawing No	Revision No
20160112	SW201	G

FILE: J:\Projects\2016\20160112 25-27 Warriewood Road, Warriewood\Civil\sd\village 2\FOR S4.55\SW201.dwg

DATE PLOTTED: 29 September 2021 3:48 PM BY: SGCEMAC10

A1

Issue	Last revision title	by	Date	Status
G	ISSUE FOR S4.55 / UPDATE ARCHITECTURAL PLANS	MS	28.09.21	2
F	ISSUE FOR S4.55 / UPDATE ARCHITECTURAL PLANS	MS	31.08.21	2
E	ISSUE FOR S4.55	MS	03.05.21	2
D	ISSUE FOR DA	MS	26.05.20	2
C	ISSUE FOR DA	MS	15.05.20	2
B	ISSUE FOR DA	RJ	05.05.20	2
A	ISSUE FOR DA	RJ	30.04.20	2
P3	PRELIMINARY ISSUE	MS	24.02.20	1
P2	PRELIMINARY ISSUE	MS	17.01.20	1

Issuer internal sequence and revision history

1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

ENGINEERS AUSTRALIA
Chartered Professional Engineer
MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

QUALITY CONTROL

DRAWN	MS	DATE	28.09.21
CHECKED	SH	DATE	28.09.21
DESIGNED	MS	DATE	28.09.21
VERIFIED	SH	DATE	28.09.21
APPROVED	SH	DATE	28.09.21

WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SAG CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF SAG CONSULTANTS PTY LTD

Scales

0m 2 4 6 8 10
SCALE 1:200 ON ORIGINAL SIZE

CLIENT
THE KNOWLES GROUP- ARCARE

ARCHITECT
V / A ARCHITECTS
LEVEL 3, 377 LONSDALE STREET
+61 3 8678 3300
vloarchitects.com.au

SGC
Suite 5.03, Level 5,
156 PACIFIC HIGHWAY,
ST. LEONARDS, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.au
Web: www.sgce.com.au
A.B.N. 21 118 222 530

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
25-27 WARRIEWOOD ROAD,
WARRIEWOOD - STAGE II

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	4 OF 8	1:200 @ A1

Drawing Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title
STORMWATER CONCEPT DESIGN
ROOF PLAN

Project No	Drawing No	Revision No
20160112	SW202	G

PLOT SCALE: 1:1
PLOT FILE: J:\Production\2016\20160112 25-27 Warriewood Road, Warriewood\Civil\cad\Stage 2\FOR S4.55\SW202.dwg

A1

DATE PLOTTED: 29 September 2021 3:48 PM BY: SGCEMACID

Treatment Train Effectiveness - Post-Development Node

	Sources	Residual Load	% Reduction
Flow (ML/yr)	12.5	6.71	46.2
Total Suspended Solids (kg/yr)	2090	297	85.8
Total Phosphorus (kg/yr)	4.33	1.01	76.7
Total Nitrogen (kg/yr)	24.6	9.26	62.3
Gross Pollutants (kg/yr)	227	0	100

☐ Include Pre-Development

MUSIC MODEL AND RESULT

NOT TO SCALE

TOWNHOUSES CATCHMENT (BIORETENTION 1) STAGE 1

- RIPARIAN ZONE INTO BIO 1. AREA: 331m^2, 100% PERVIOUS (OUTSIDE STAGE 2 SITE AREA)
- SEALED ROADS LANDSCAPE INTO GPT & BIO 1. AREA: 692m^2, 100% PERVIOUS
- SEALED ROADS INTO GPT & BIO 1. AREA: 2217m^2, 100% IMPERVIOUS

AGEDCARE (AC) CATCHMENT (BIORETENTION 2)

- AREA WHICH MUSIC MODEL HAS BEEN APPROVED IN DA N0611/16

STAGE 2 MUSIC CATCHMENT SUMMARY

TOTAL PERVIOUS AREA EXCLUDING ROADS (m2)	TOTAL SITE AREA EXCLUDING ROADS (m2)	PERVIOUS (%) (OF STAGE 2 SITE AREA)
3353	8187	41.00

TOWNHOUSE CATCHMENT (BIORETENTION 1) STAGE 2

- AREA WHICH MUSIC MODEL HAS BEEN APPROVED IN DA N0611/16
- COURTYARD INTO GPT & BIO 1. AREA: 2828m^2, 100% PERVIOUS
- RESIDENTIAL APARTMENT ROOF INTO 20000L RWT, GPT & BIO 1. AREA: 1798m^2, 100% IMPERVIOUS
- 11 TOWNHOUSES ROOF INTO 11x2200L RWT, GPT & BIO 1. AREA: 1180m^2, 100% IMPERVIOUS
- SEALED ROADS INTO GPT & BIO 1. AREA: 770.3m^2, 100% IMPERVIOUS
- PAVED AREA INTO GPT & BIO 1. AREA: 1082m^2, 100% IMPERVIOUS
- PERMEABLE PAVNG INTO GPT & BIO 1. AREA: 547m^2, 100% PERVIOUS

Issue	Last revision title	by	Date	Status
G	ISSUE FOR S4.55 / UPDATE ARCHITECTURAL PLANS	MS	28.09.21	2
F	ISSUE FOR S4.55 / UPDATE ARCHITECTURAL PLANS	MS	31.08.21	2
E	ISSUE FOR S4.55	MS	03.05.21	2
D	ISSUE FOR DA	MS	26.05.20	2
C	ISSUE FOR DA	MS	15.05.20	2
B	ISSUE FOR DA	RJ	05.05.20	2
A	ISSUE FOR DA	RJ	30.04.20	2
P3	PRELIMINARY ISSUE	MS	24.02.20	1
P2	PRELIMINARY ISSUE	MS	17.01.20	1

Issuer internal sequence and revision history

1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES' MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

QUALITY CONTROL

DRAWN	MS	DATE	28.09.21
CHECKED	SH	DATE	28.09.21
DESIGNED	MS	DATE	28.09.21
VERIFIED	SH	DATE	28.09.21
APPROVED	SH	DATE	28.09.21

WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD

Scales

0m 5 10 15 20 25

SCALE 1:500 ON ORIGINAL SIZE

CLIENT
THE KNOWLES GROUP- ARCARE

ARCHITECT
V/A ARCHITECTS
LEVEL 3, 377 LONSDALE STREET
+61 3 9670 3300
vioarchitects.com.au

SGC
Suite 5.03, Level 5,
156 PACIFIC HIGHWAY,
ST. LEONARDS, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.au
Web: www.sgce.com.au
A.B.N. 21 118 222 530

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
25-27 WARRIEWOOD ROAD,
WARRIEWOOD - STAGE II

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	8 OF 8	1:500 @ A1

Drawing Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title
STORMWATER CONCEPT DESIGN
MUSIC CATCHMENT PLAN

Project No	Drawing No	Revision No
20160112	SW500	G

PLOT SCALE: 1:1
PLOT BY: Z:\Production\20161112-25-27 Warriewood Road, Warriewood\Civil\cad\stage 2\FOR S4551\SW500.dwg