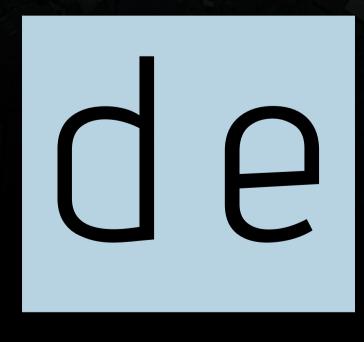
CONCEPT STORMWATER DRAINAGE PLANS

PROPOSED GRANNY FLAT **5 WINDERMERE PLACE, WHEELER HEIGHTS NSW 2097**

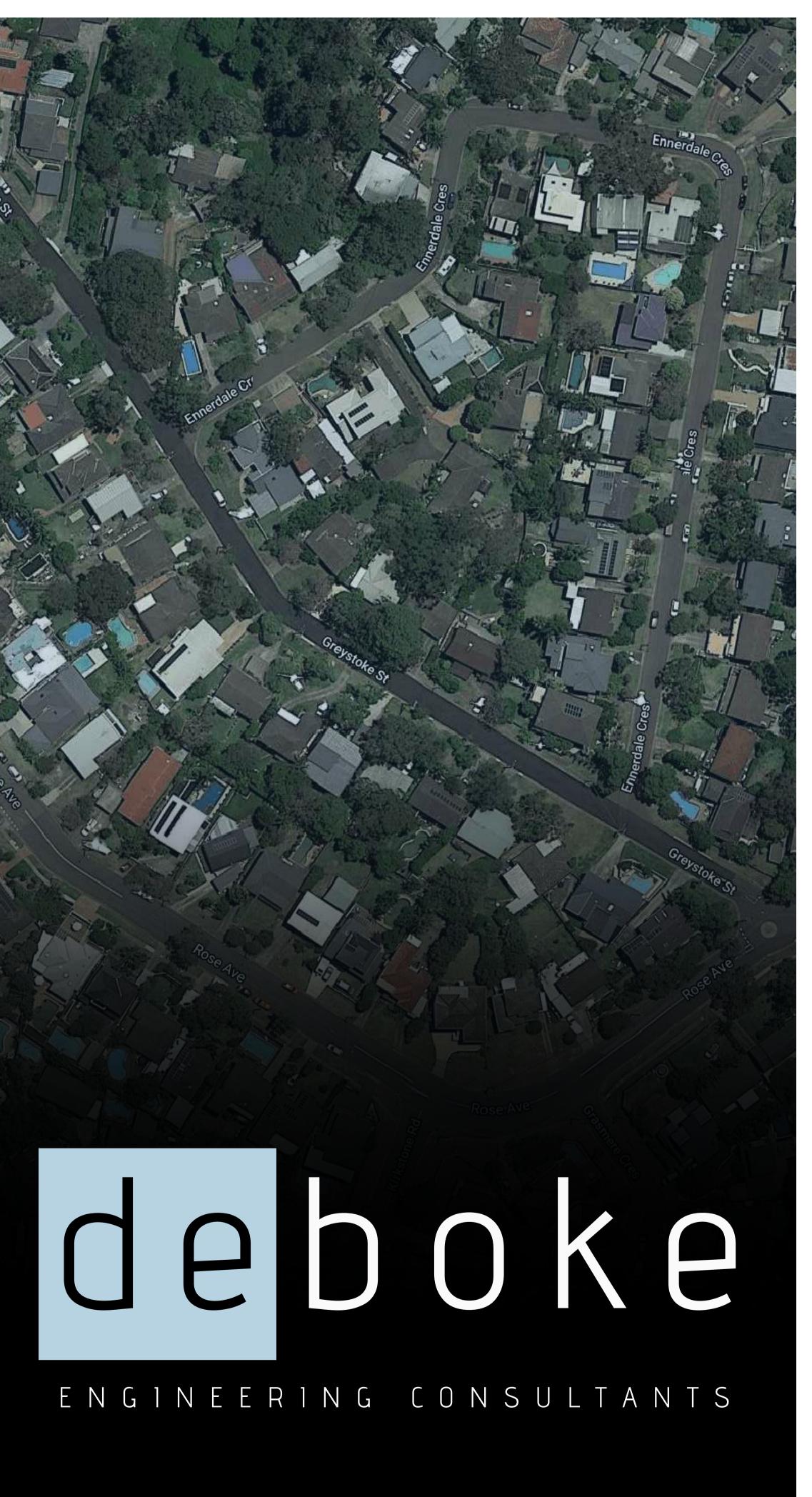
REF | SW21274

REVISION A

CLIENT | BUNGALOW HOMES



ARCHITECT | RK DESIGN



DRAINAGE NOTES:

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)

SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

MAXIMUM FRONT ENTRY PIPE:-STRAIGHT ENTRY - Ø750 SKEW ENTRY 45° - Ø525

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f'c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

AUTHORITY STORMWATER NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDANT.

ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTERLINE OF FENCE/BOLARD/PIPE.

SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.

NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS

PIPE BACKFILL	DENSITY INDEX 75
SELECT FILL	95% STANDARD
SELECT FILL (LESS THAN 300mm	98% MODIFIED
BELOW BASE COURSE)	
BASE COURSE	100% MODIFIED

THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

KERB INLET PIT NOTES:

KERB INLET PITS TO BE CONSTRUCTED TO NORTHERN BEACHES COUNCIL STANDARDS.

ALL KERB INLET PITS TO BE CAST IN-SITU, U.N.O. BY NORTHERN BEACHES COUNCIL STANDARD DRAWINGS.

ALL CONCRETE SHALL BE 32MPa STRENGTH AT 28 DAYS WITH F82 MESH CENTRALLY PLACEDBY NORTHERN BEACHES COUNCIL STANDARD DRAWINGS.

	DRAWING REGISTER	
NUMBER	NAME	REVISION
S100	COVER SHEET	A
S101	SPECIFICATIONS SHEET	A
S200	SITE STORMWATER MANAGEMENT PLAN	A
S201	FIRST FLOOR AND ROOF PLAN	A
S300	DETAILS SHEET	A
S400	EROSION AND SEDIMENT CONTROL	A



TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

					E: admin@deboke.com.au W: www.deboke.com.au A: 65 Blaxcell Street, Granville NSW 2142 M: 0432 225 833 (A.A.), 0404 786 785 (J.D.) COPYRIGHT THIS DRAWING AND THE INFORMATION SHOWN HEREON IS THE PROPERTY OF DEBOKE ENGINEERING CONSULTANTS AND MAY NOT BE USED FOR ANY PURPOSES THAN FOR WHICH SUPPLIED.
А	ISSUED FOR DA	2	A.A.	03.06.2021	APPROVAL TYPE: 1. PRELIMINARY 4. CONSTRUCTION CERTIFICATE
REV	DESCRIPTION	APP.	DESIGN	DATE	2. DEVELOPMENT APPLICATION 5. FOR TENDER 3. COMPLYING DEVELOPMENT 6. OTHER



EROSION & SEDIMENT CONTROL NOTES:

PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

STORMWATER PIPE **BEDDING/PAVING NOTES:**

WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.

STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.

FOOTPATH REINSTATEMENT NOTES:

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS: SELECT FILL 95% MODIFIED SELECT FILL (LESS THAN 300mm 98% MODIFIED BELOW BASE COURSE) 100% MODIFIED BASE COURSE

ABBREVIATIONS:

Ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DD	DISH DRAIN
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
е	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OFP	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
	070000000
SW SWP	STORMWATER STORMWATER PIT
	STORMWATER FIT
SWRM	
SWS	STORMWATER SUMP
SV	
TOK	
TOW	
TWL	TOP WATER LEVEL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL
	CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT
FF	FIRST FLUSH DEVICE
TYP	TYPICAL

PRIOR TO ANY EXCAVATION ON SITE

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

A.A. DESIGNED: A.A. DRAWN: REVIEWED: J.D. DATE: 03.06.2021 APPROVED: DATE: 03.06.2021

B.E CIVIL/STRUCTURAL BEng,MIEAust MEMB. NO: 5579488





CLIENT:

PROJECT: PROPOSED GRANNY FLAT ADDRESS: 5 WINDERMERE PLACE, WHEELER HEIGHTS APPLICATION: DEVELOPMENT APPLICATION (DA) LGA: NORTHERN BEACHES COUNCIL

LEGEND:

	— SSD ——
—— SWRM—	SWRM
———— HL —	——— HL ————
0F	0F
	е
sw	sw
	S
	- W
	G
	E
	- UE
—— F0——	F0 F0
	- TEL
/	/

eTEL

eHYD

eSV \boxtimes

eSMH

⊖ ePP

 \bigcirc

OFP

Ø

Ø

۲

● ^{DP}

FSL

Δ

RWO

CO

Η

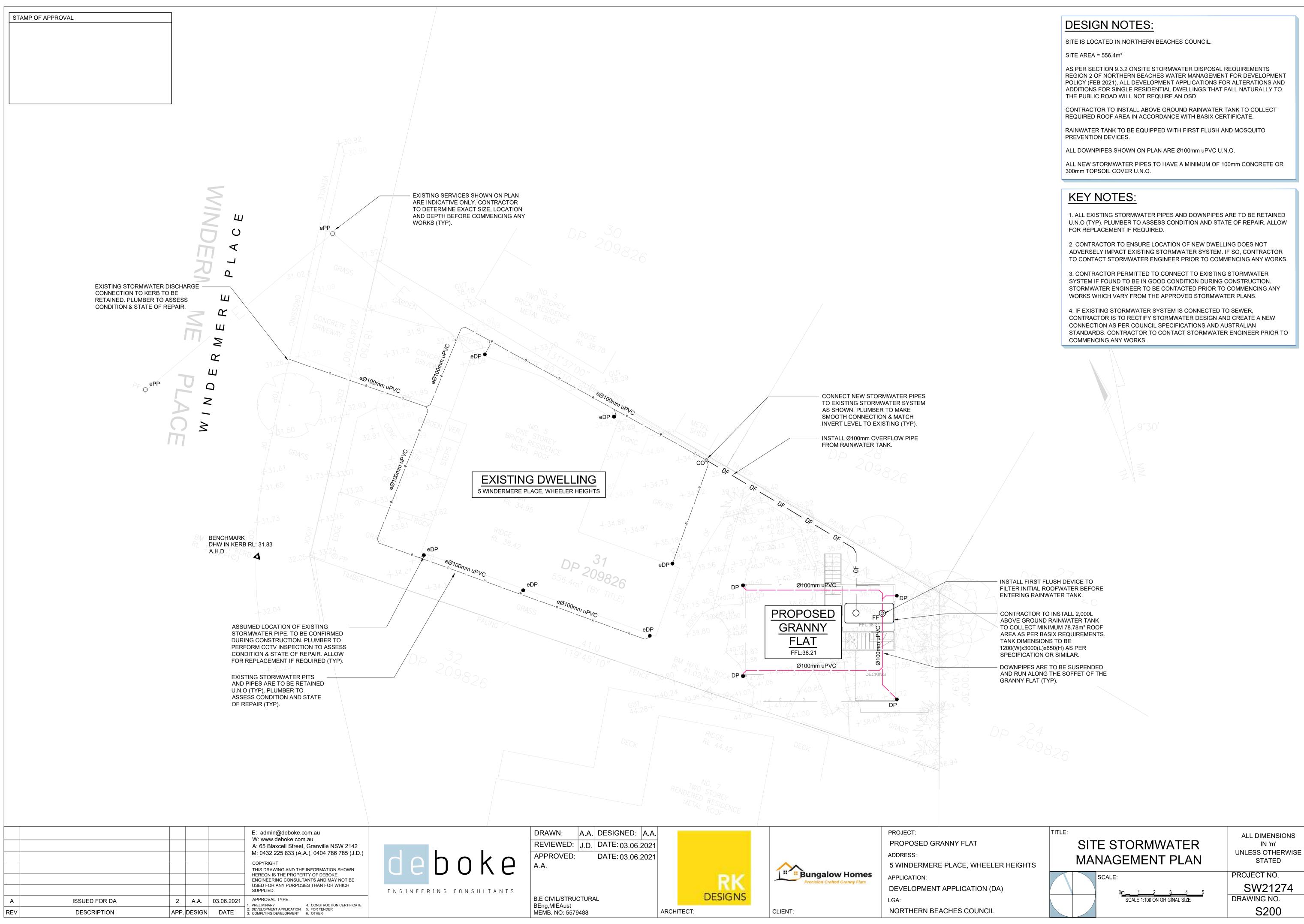
RAINWATER TANK LINES
STORMWATER LINE
SUBSOIL LINE
STORMWATER RISING MAIN
HIGH LEVEL STORMWATER LINE
OVERFLOW LINE
EXISTING STORMWATER LINE
AUTHORITY STORMWATER LINE
AUTHORITY SEWER LINE
AUTHORITY WATER LINE
AUTHORITY GAS LINE
AUTHORITY ELECTRICITY LINE
AUTHORITY UNDERGROUND ELECTRICITY LINE
AUTHORITY FIBRE OPTIC LINE
AUTHORITY COMMS LINE
FENCE LINE
GRATED SURFACE INLET PIT
JUNCTION PIT
KERB INLET PIT
EXISTING KERB INLET PIT
EXISTING TELSTRA PIT
EXISTING HYDRANT
EXISTING STOP VALVE
EXISTING POWER POLE
EXISTING SEWER MANHOLE
OVERLAND FLOW PATH
RAINWATER OUTLET
CLEAR OUT POINT
CAPPING
DOWNPIPE DROP

ſS	TITLE:	COVER SHEET	ALL DIMENSIONS IN 'm' UNLESS OTHERWISE STATED
		SCALE:	PROJECT NO.
			SW21274
			DRAWING NO.
			S101

DOWNPIPE

SPOT LEVELS

BENCHMARK



STAMP OF APPROVAL

					E: admin(W: www.d A: 65 Blax M: 0432 22 COPYRIGHT THIS DRAWI HEREON IS ENGINEERIN USED FOR A SUPPLIED.
					_
A	ISSUED FOR DA	2	A.A.	03.06.2021	APPROVAL ⁻ 1. PRELIMINARY
REV	DESCRIPTION	APP.	DESIGN	DATE	 DEVELOPMENT COMPLYING DE

in@deboke.com.au v.deboke.com.au laxcell Street, Granville NSW 2142 2 225 833 (A.A.), 0404 786 785 (J.D.)

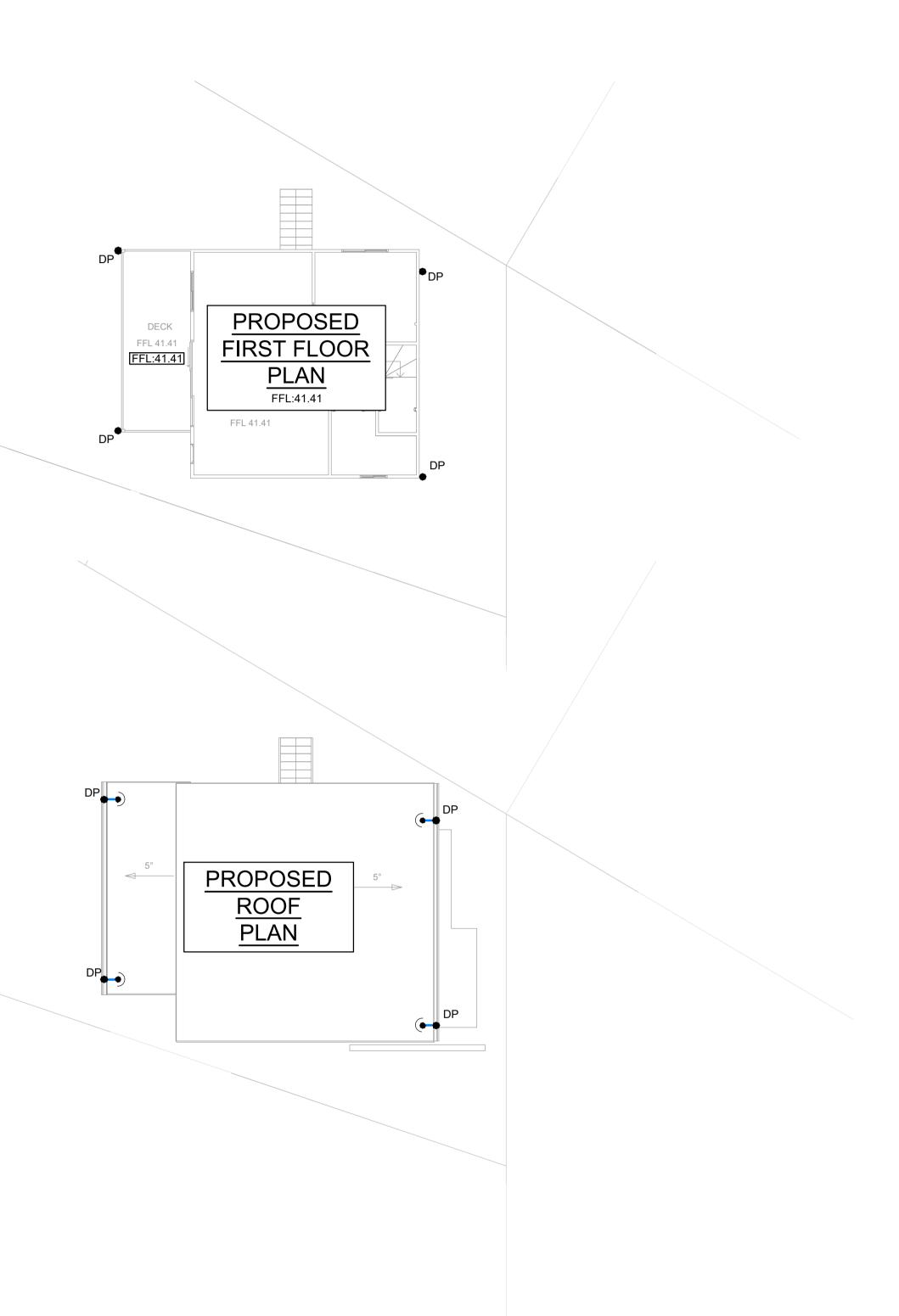
AWING AND THE INFORMATION SHOWN IS THE PROPERTY OF DEBOKE RING CONSULTANTS AND MAY NOT BE R ANY PURPOSES THAN FOR WHICH

L TYPE:
 APP.
 DESIGN
 DATE
 1. PRELIMINARY
 4. CONSTRUCTION CERTIFICATE

 3. COMPLYING DEVELOPMENT
 5. FOR TENDER

 6. OTHER





DRAWN: A.A. DESIGNED: A.A. REVIEWED: J.D. DATE: 03.06.2021 APPROVED: DATE: 03.06.2021 A.A.

B.E CIVIL/STRUCTURAL BEng,MIEAust MEMB. NO: 5579488



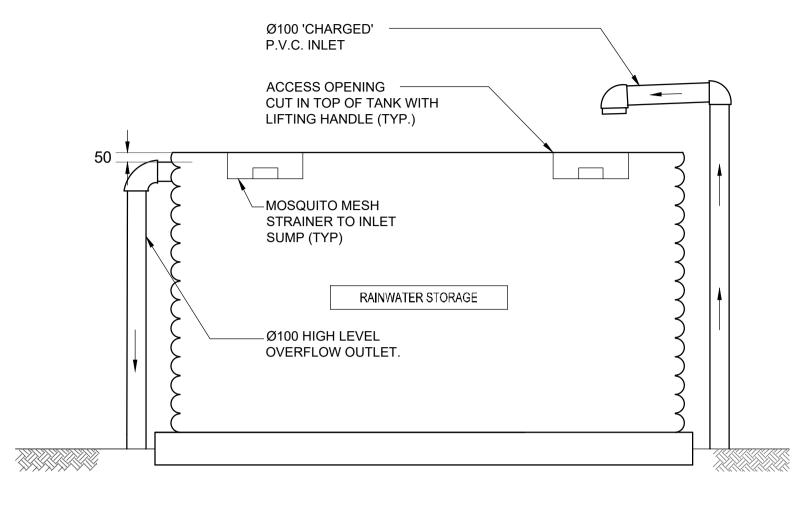
PROJECT: PROPOSED GRANNY FLAT ADDRESS: 5 WINDERMERE PLACE, WHEELER HEIGHTS APPLICATION: DEVELOPMENT APPLICATION (DA) LGA: NORTHERN BEACHES COUNCIL

ARCHITECT:

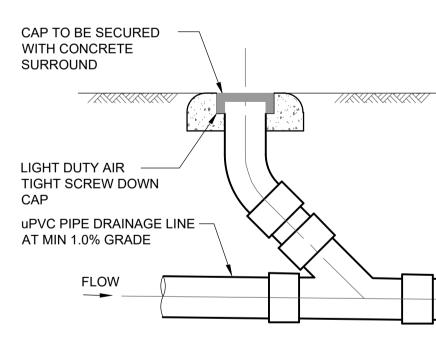
CLIENT:

FIRST FLOOR AND ROOF	ALL DIMENSIONS IN 'm' UNLESS OTHERWIS STATED
SCALE: 0 <u>m1 2 3 4 5</u> SCALE 1:100 ON ORIGINAL SIZE	PROJECT NO. SW21274 DRAWING NO. S201

STAMP OF APPROVAL	



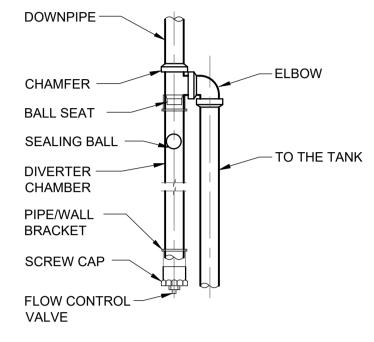
TYPICAL ABOVE GROUND RAINWATER TANK NOT TO SCALE

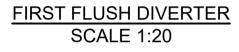


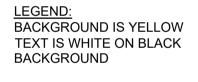
CLEANING EYE SCALE 1:20

					 W: www.deboke.com.au A: 65 Blaxcell Street, Granville NSW 2142 M: 0432 225 833 (A.A.), 0404 786 785 (J.D.) COPYRIGHT THIS DRAWING AND THE INFORMATION SHOWN HEREON IS THE PROPERTY OF DEBOKE ENGINEERING CONSULTANTS AND MAY NOT BE USED FOR ANY PURPOSES THAN FOR WHICH SUPPLIED. 	
A	ISSUED FOR DA	2	A.A.	03.06.2021	APPROVAL TYPE: 1. PRELIMINARY 4. CONSTRUCTION CERTIFICATE	











RAINWATER SIGN SCALE 1:10



A.A. DESIGNED: A.A. DRAWN: REVIEWED: J.D. DATE: 03.06.2021 APPROVED: DATE: 03.06.2021 A.A.

B.E CIVIL/STRUCTURAL BEng,MIEAust MEMB. NO: 5579488

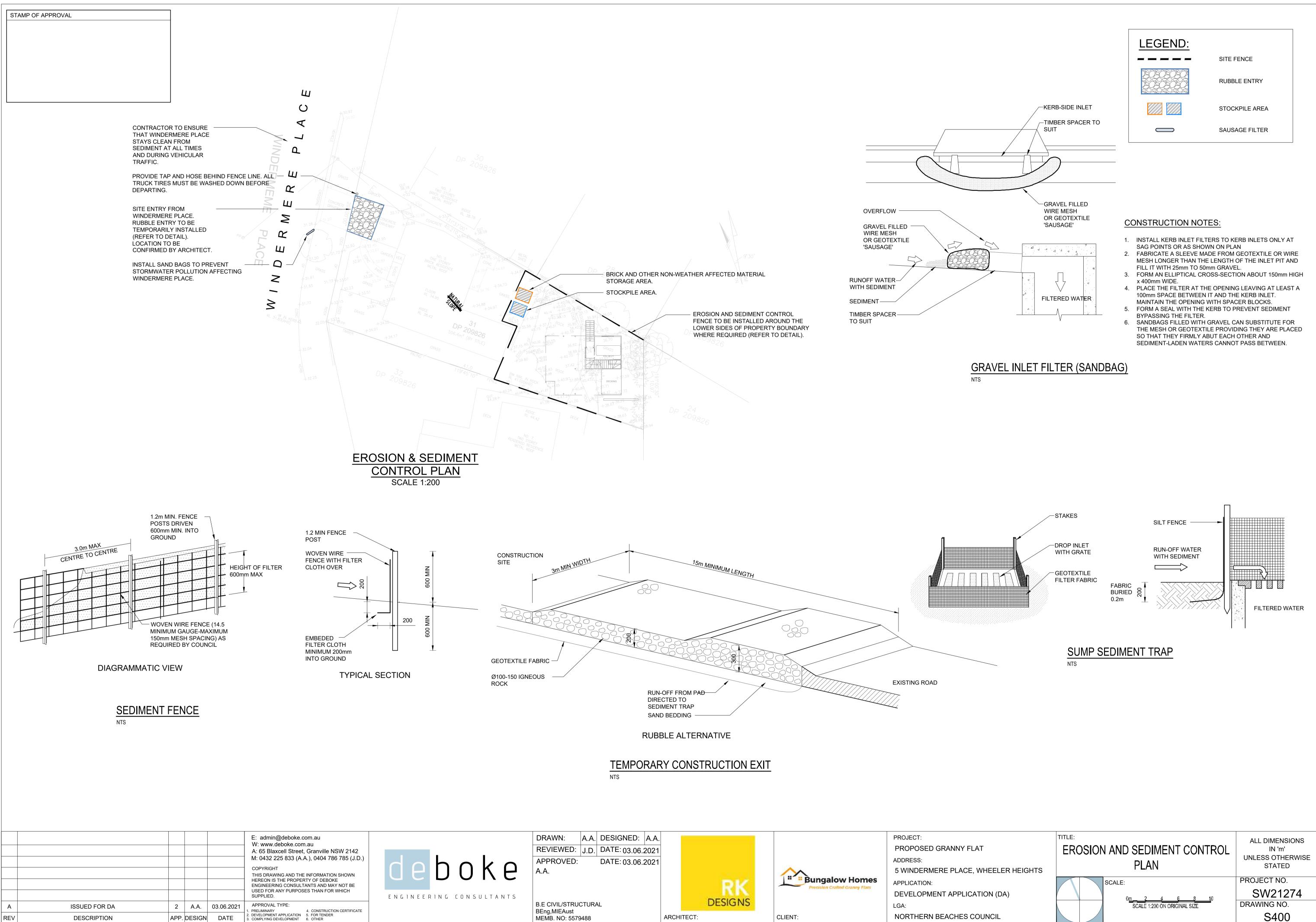




CLIENT:

PROJECT: PROPOSED GRANNY FLAT ADDRESS: 5 WINDERMERE PLACE, WHEELER HEIGH APPLICATION: DEVELOPMENT APPLICATION (DA) LGA: NORTHERN BEACHES COUNCIL

TITLE:	DETAILS SHEET	ALL DIMENSIONS IN 'm' UNLESS OTHERWISE STATED
	SCALE:	PROJECT NO.
		SW21274
		DRAWING NO.
		S300
	TITLE:	DETAILS SHEET



	B E CIVII /STRUCTURAI
	BEng.MIEAust
	B.E CIVIL/STRUCTURAL BEng,MIEAust MEMB. NO: 5579488
-	