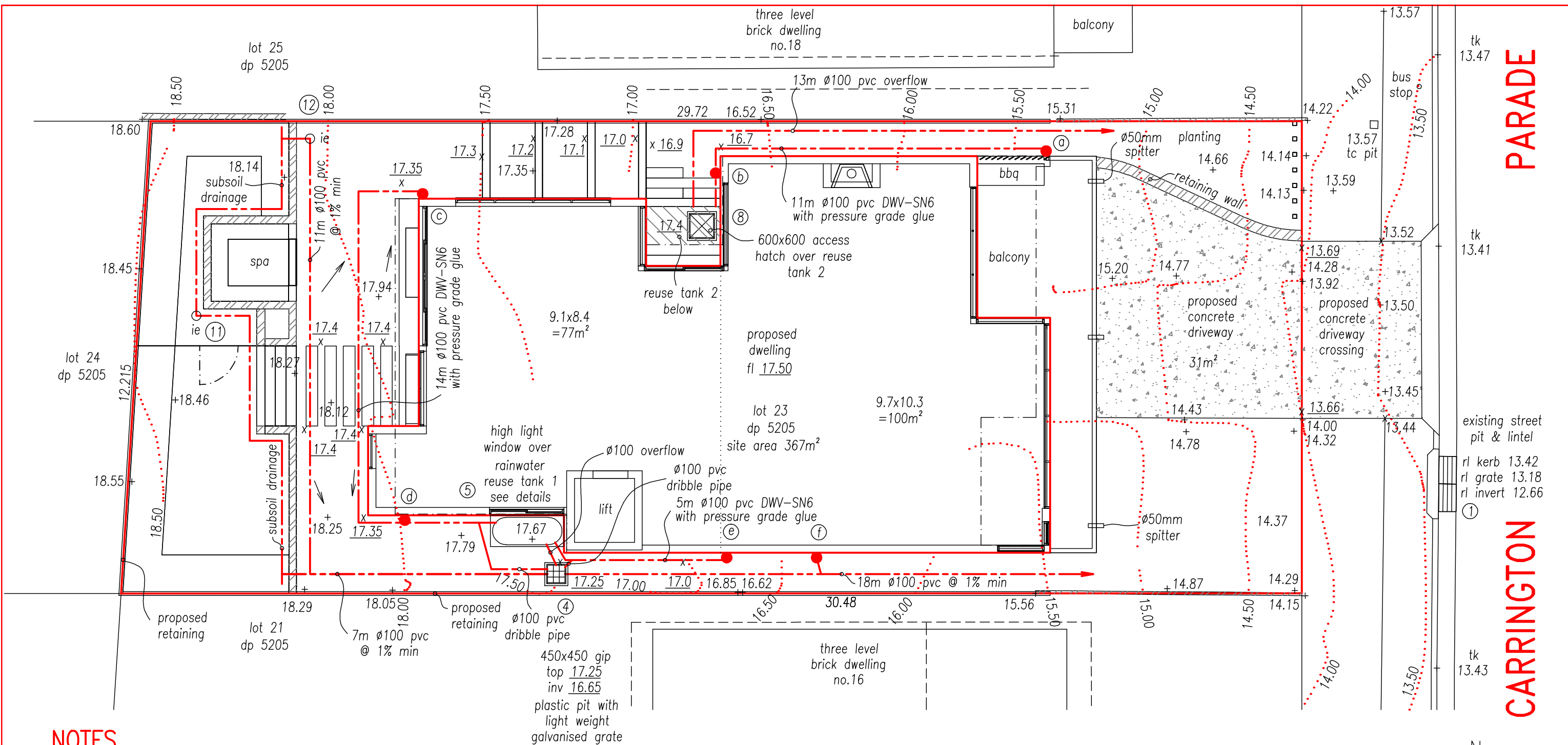




NOTES

- all work to be done to the satisfaction of Northern Beaches (Warringah) Council.
- legend:
 - tw top of wall
 - tk top of kerb
 - down pipe
 - fw floor waste
 - gfl garage floor level
 - fl floor level
 - 56.89 existing level
 - 53.81 design level
 - gip grated inlet pit
 - bfl basement floor level
 - jp junction pit
 - ie upvc sewer grade inspection eye

dps – downpipe with spreader
 D.E.B – dropped edge beam
 rgd – round grated drain
 eof – emergency over flow
 ie – inspection eye

- proposed concrete driveway to be constructed in accordance with plans, specifications, and levels issued separately by council.
- all pipes to be min. 100mm dia unless noted otherwise (uno).
- all pipes to be grade upvc at min 1% uno.

site plan

scale 1:100

SHEET 1

total proposed impervious area :
 77+100+31+5+6=219m²

p\stormwater drawings\081019 17 carrington

STORMWATER ENGINEERS PTY LTD

stormwater + civil engineers

email: aztecengineers@gmail.com
 tel 0433 00 1985

nov 2019	4000 litres reuse	C
nov 2019	redesign, relocated rainwater reuse	B
oct 2019	development application issue	A

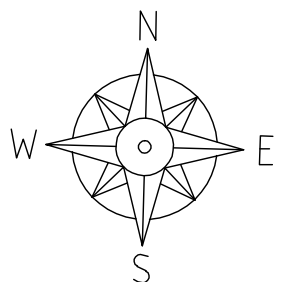
PROJECT :
 proposed dwelling at
 17 carrington parade, freshwater

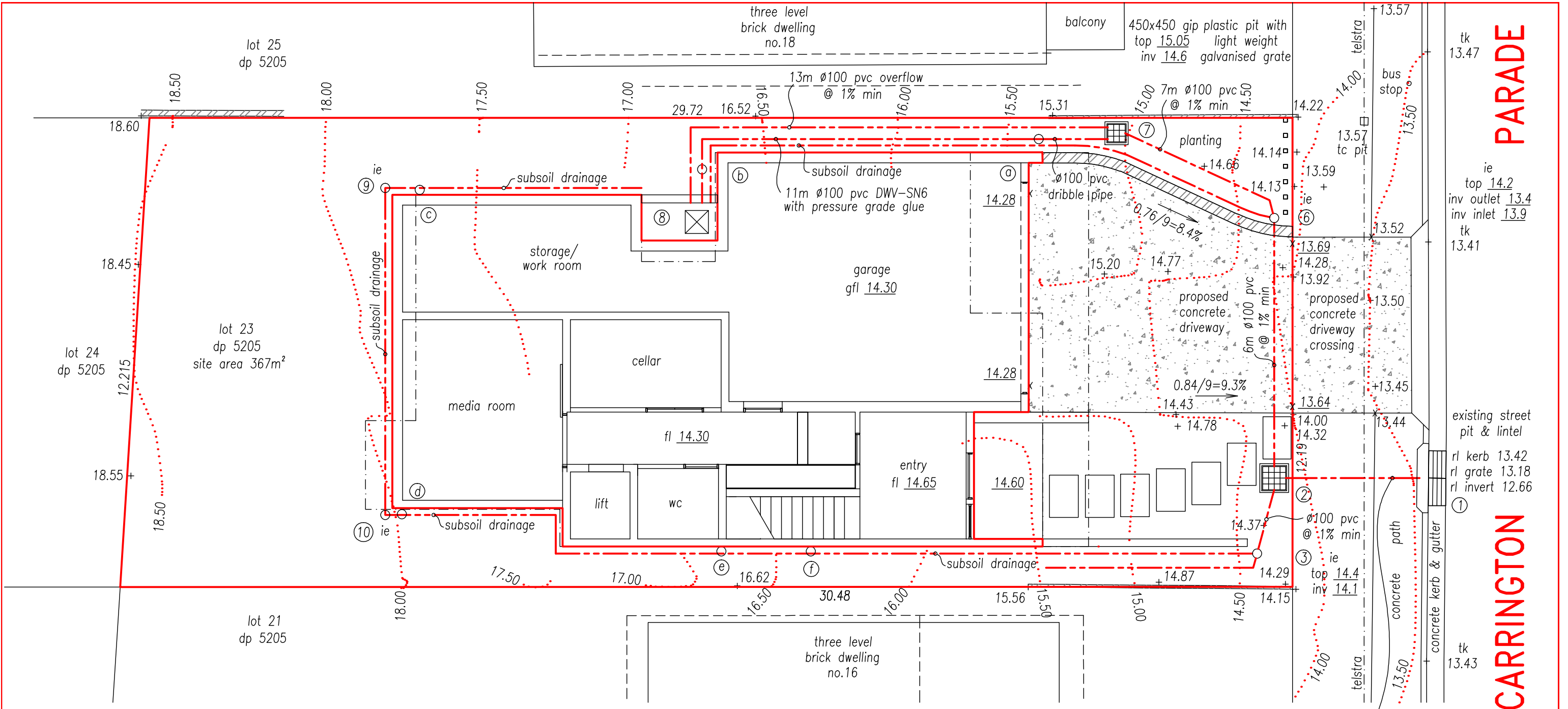
DRAWING No.
081019

**stormwater drainage
 & rainwater reuse**

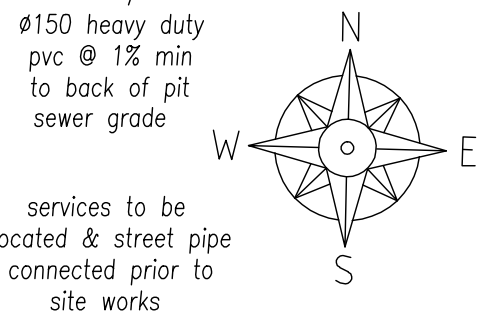
development application issue

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garage plan
scale 1:100



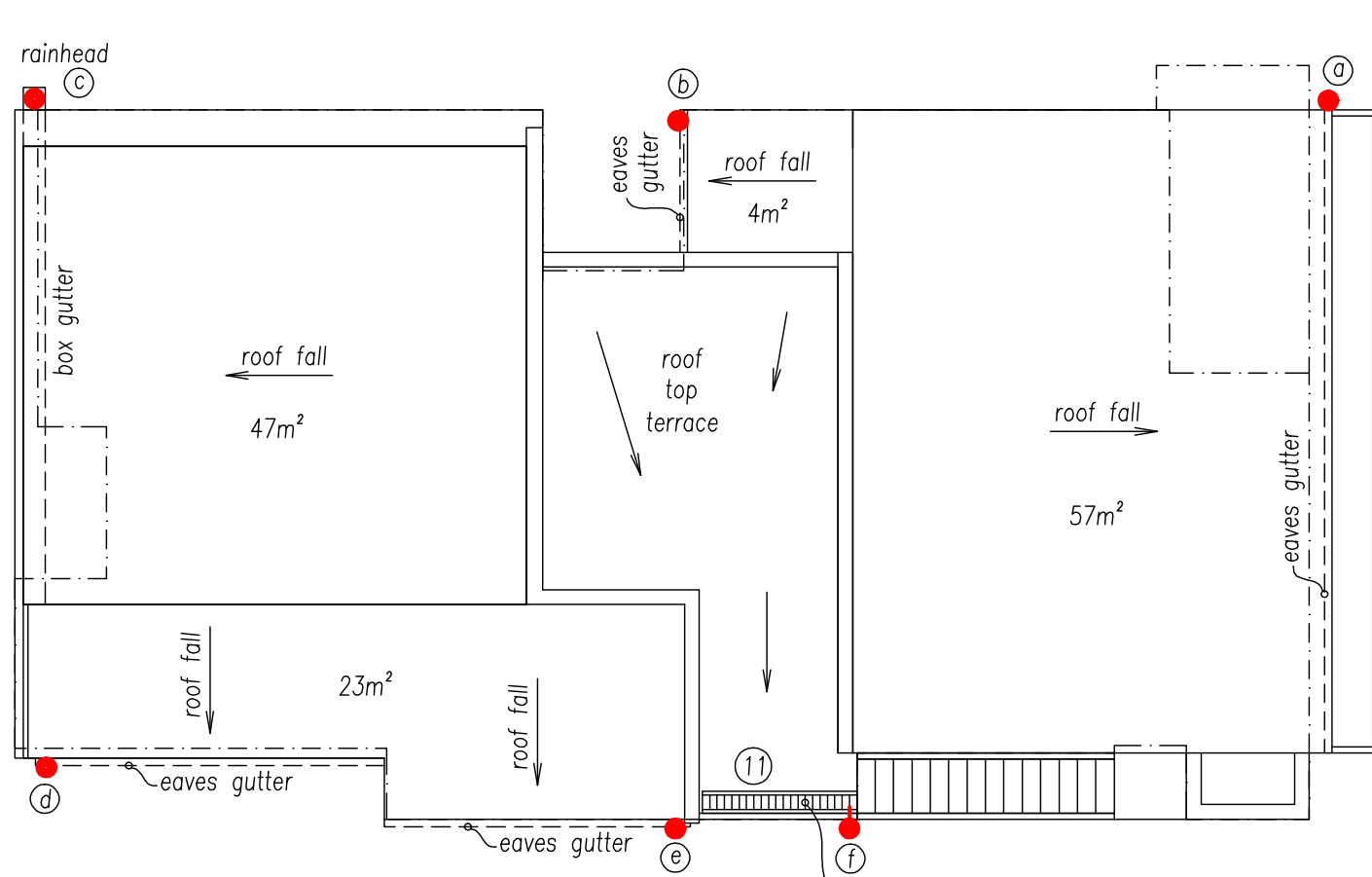
SHEET 2

p\stormwater drawings\081019 17 carrington

development application issue

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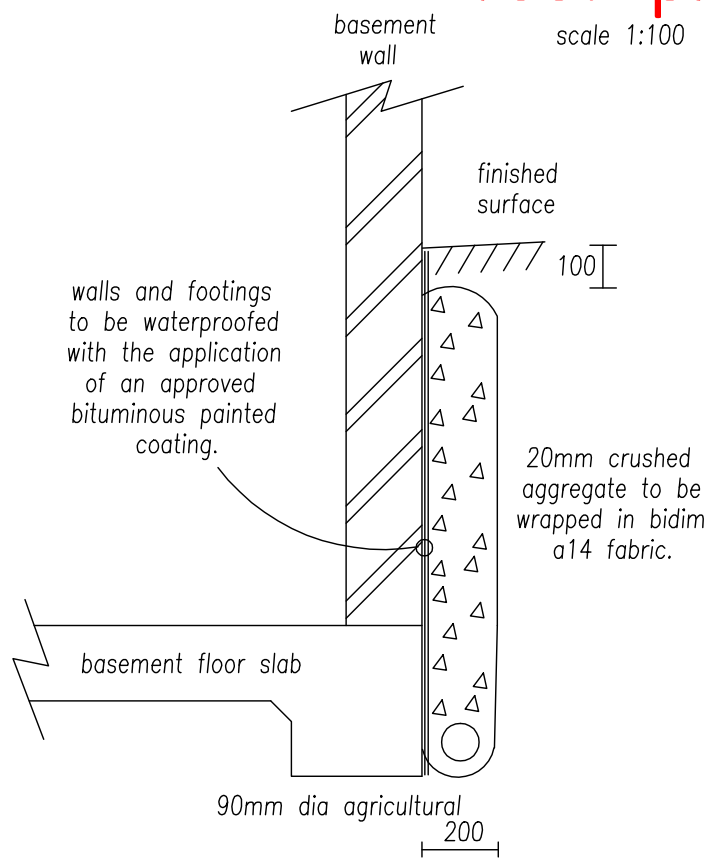
STORMWATER ENGINEERS PTY LTD			stormwater + civil engineers		email: aztecengineers@gmail.com tel 0433 00 1985	
nov 2019	4000 litres reuse	C	PROJECT : proposed dwelling at 17 carrington parade, freshwater	DRAWING No. 081019	stormwater drainage & rainwater reuse	
nov 2019	redesign, relocated rainwater reuse	B				
oct 2019	development application issue	A				



roof plan

scale 1:100

100mm wide grated drain with removable galvanised grates
roof area : 23+47+4+57=131m²

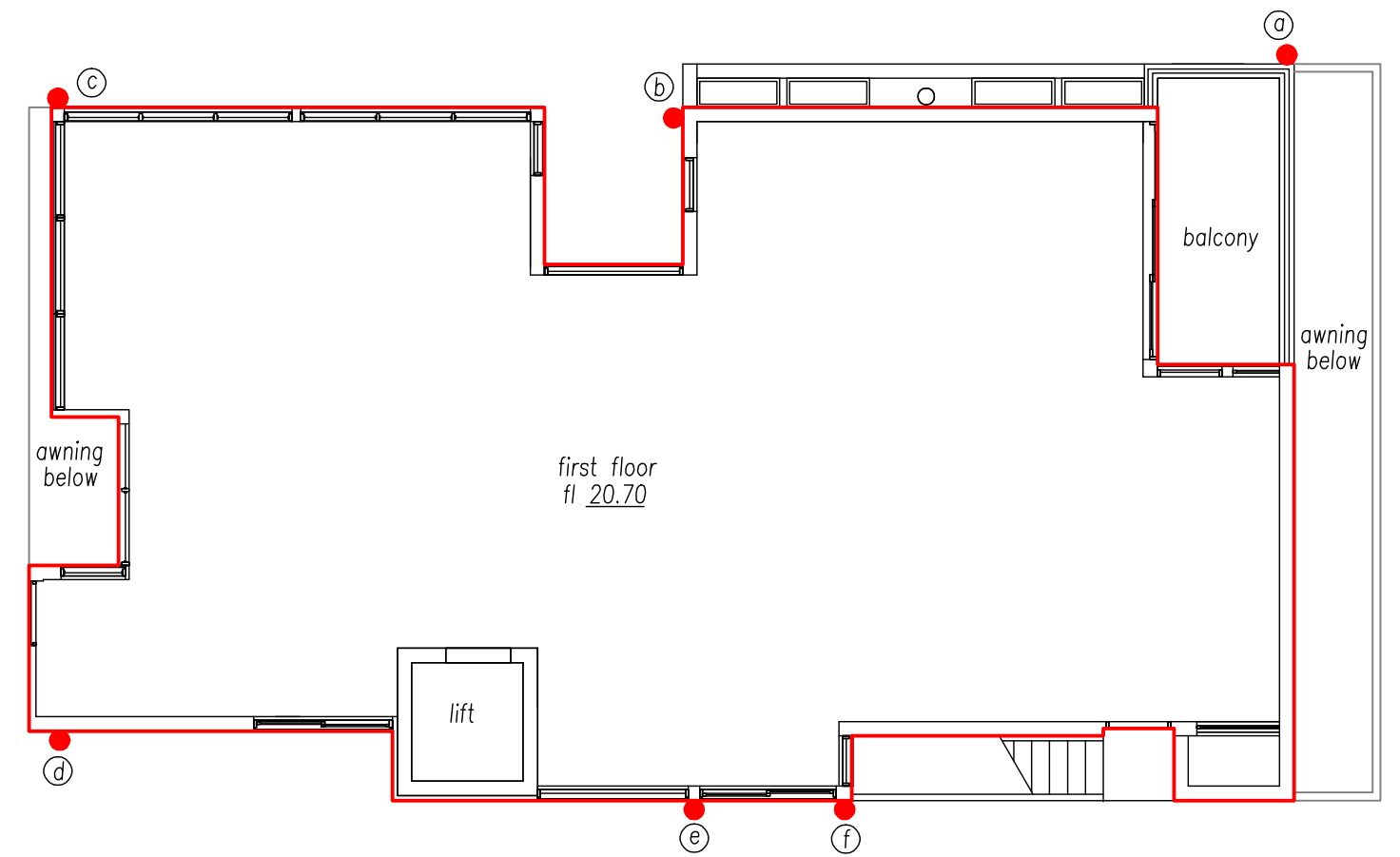


typical subsoil drainage and waterproofing for basement walls

scale 1:20

development application issue

BASIX Commitments	
item	requirement
refer BASIX Certificate number	757401S dated 02 September 2016
rainwater tank size	at least 4000 litres, 4000 litres proposed
roof area	at least 131sqm, 131sqm of roof proposed
rainwater tank connected to	all toilets & at least one outdoor tap
	the cold water tap that supplies each clothes washer



first floor plan

scale 1:100

TABLE OF DOWN PIPE INFORMATION

down pipe number	size	surface level	invert level
a	ø90mm	15.4	15.2
b	ø90mm	16.7	16.0
c	ø90mm	17.35	17.15
d	ø90mm	17.3	17.1
e	ø90mm	16.8	16.6
f	ø90mm	16.4	16.2

all proposed downpipes to be ø90 pvc SWV-SN6 with pressure grade glue (green glue) in joints

SHEET 3

p\stormwater drawings\081019 17 carrington

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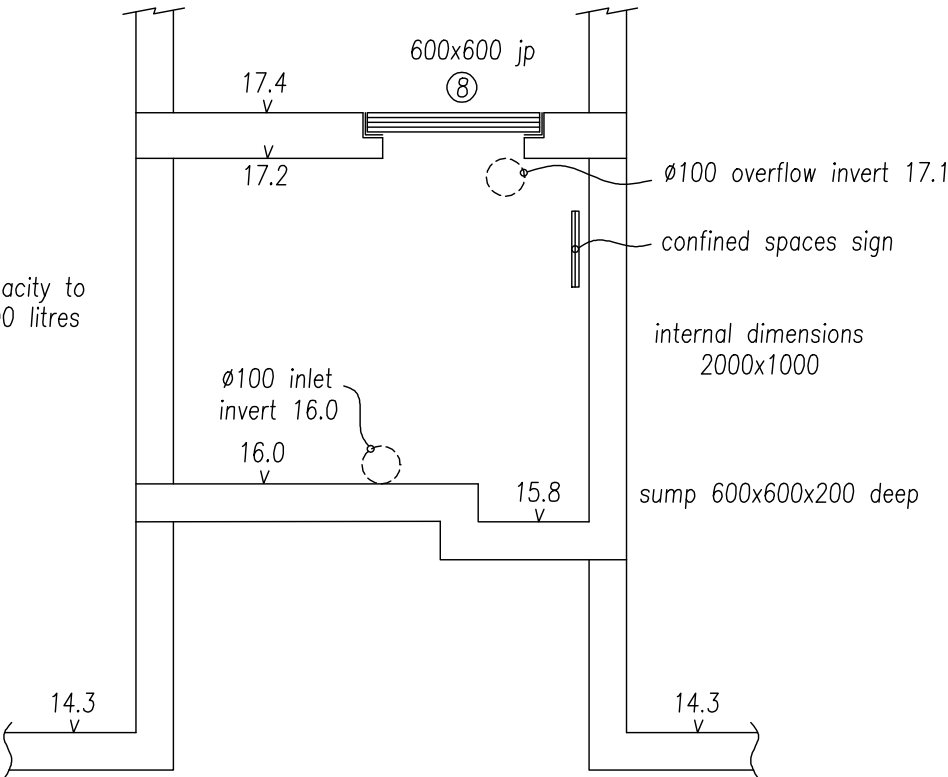
nov 2019	4000 litres reuse	C
nov 2019	redesign, relocated rainwater reuse	B
oct 2019	development application issue	A

STORMWATER ENGINEERS PTY LTD stormwater + civil engineers		email: aztecengineers@gmail.com tel 0433 00 1985	
PROJECT : proposed dwelling at 17 carrington parade, freshwater		DRAWING No. 081019	stormwater drainage & rainwater reuse

structural details of detention tank
to be prepared by a suitably
qualified structural engineer.

tank to be water proofed

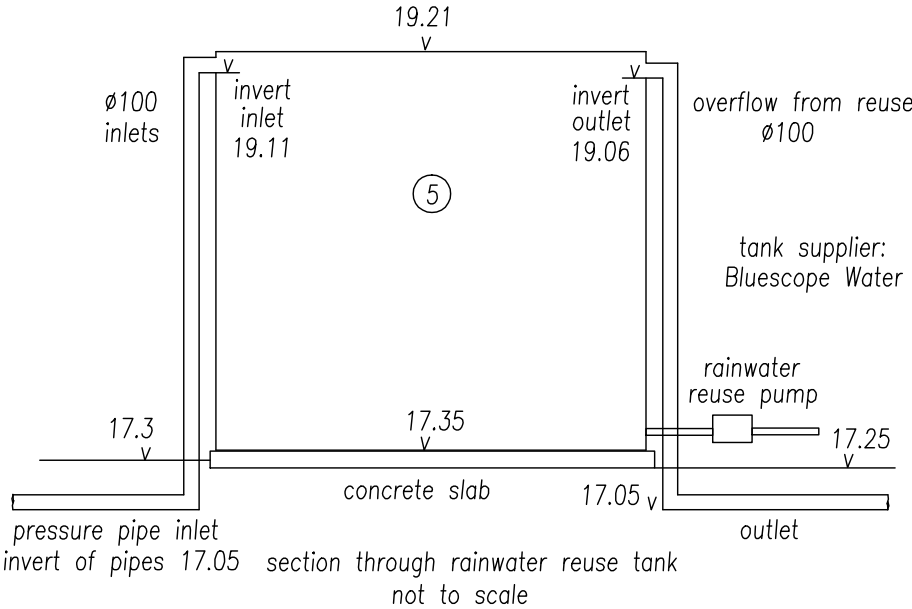
minimum capacity to
overflow 2000 litres



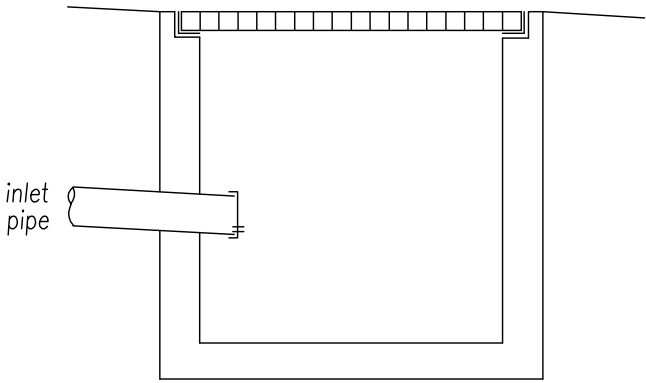
section through proposed
rainwater reuse tank 2
not to scale



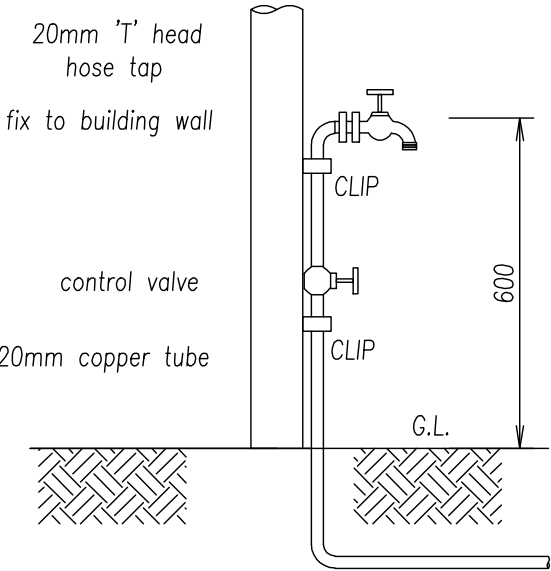
sign at
each entrance to
reuse tank 2



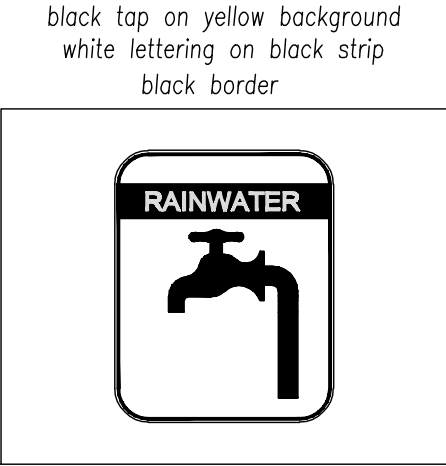
reuse required per BASIX 2000 litres
proposed 2000 litres storage
rainwater reuse tanks
per suppliers specifications
Slimline 2000TA 1800 long 1860 high 710 wide tank system
supplier Bluescope Water
any openings shall be meshed or sealed to
prevent access by insects such as mosquitos
pump to be suitably soundproofed
the drainage system & the downpipes & fittings
are to be DWV-SN6 pvc pipes with pressure glue
specified in AS3500.1:2015



dribble pipe details
not to scale
dribble pipe connection
screw cap over connection
5mm diameter weephole
to be provided at
base of screwcap



hose tap detail
not to scale



SHEET 4

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Leon Savage
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STORMWATER ENGINEERS PTY LTD

stormwater + civil engineers

email: aztecengineers@gmail.com
tel 0433 00 1985

PROJECT :
proposed dwelling at
17 carrington parade, freshwater

DRAWING No.
081019

stormwater drainage
& rainwater reuse

development application issue