

128 HEADLAND RD
NORTH CURL CURL NSW
DA ISSUE

STORMWATER SERVICES LEGEND

PIPEWORK SYMBOLOGY & ABBREVIATIONS

	AGM	AMENDMENT
	ASM	AUTHORITY GAS MAIN
	ASWM	AUTHORITY SEWER MAIN
	AWM	AUTHORITY STORMWATER MAIN
		AUTHORITY WATER MAIN
		CASTIN
	ELEC	DISCONNECTED SERVICE
	GRW	ELECTRICAL SERVICE
		GREY WATER
		INSET BORDER
	IR	IRRIGATION LINE
	eIR	IRRIGATION LINE - EXISTING
	NCW	NON-POTABLE COLD WATER
	eNCW	NON-POTABLE COLD WATER - EXISTING
	NHW	NON-POTABLE HOT WATER
	eNHW	NON-POTABLE HOT WATER - EXISTING
	NHW-R	NON-POTABLE HOT WATER RETURN
	RR	RAINWATER RE-USE
	eRR	RAINWATER RE-USE - EXISTING
	RW	RECLAIMED WATER
	eRW	RECLAIMED WATER - EXISTING
		STORMWATER CATCHMENT
	SWD	STORMWATER DRAINAGE
	eSWD	STORMWATER DRAINAGE - EXISTING
	SWRM	STORMWATER RISING MAIN
	eSWRM	STORMWATER RISING MAIN - EXISTING
	SSD	SUBSOIL DRAINAGE
	eSSD	SUBSOIL DRAINAGE - EXISTING
	SOF	SYPHONIC OVERFLOW
	eSOF	SYPHONIC OVERFLOW - EXISTING
	SSW	SYPHONIC STORMWATER
	eSSW	SYPHONIC STORMWATER - EXISTING

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING SCALE	DRAWING TITLE
SW-000	NTS	COVER SHEET AND LEGEND - STORMWATER SERVICES
SW-100	1:200	SITE PLAN - STORMWATER SERVICES
SW-101	1:200	LOWER GROUND AND GROUND FLOOR PLAN - STORMWATER SERVICES
SW-102	1:200	FIRST AND SECOND FLOOR PLAN - STORMWATER SERVICES
SW-200	1:200	SEDIMENT AND EROSION CONTROL PLAN - STORMWATER SERVICES

SYMBOLS

	RISER
	DROP / RISE
	DROPPER
	TEE DROPPER
	PIPEWORK CAP
	PIPEWORK CONTINUATION
	UNDOCUMENTED CONTINUED LINE
	PIPEWORK SECTION
	DIRECTION ARROW
	NEW CONNECTION
	NEXT DRAWING
	DIRECTION OF FLOW
	SERVICE DESCRIPTION
	SERVICE SIZE
	DIRECTION OF FLOW
	STOP VALVE
	CHECK VALVE
	3 - WAY VALVE
	BALL VALVE
	REDUCED PRESSURE ZONE DEVICE
	PRESSURE RELIEF VALVE
	PRESSURE LIMITING VALVE
	DOUBLE CHECK VALVE
	INFRA RED SENSOR
	WATER FILTER
	REFLUX VALVE
	REFLUX VALVE IN PIT
	PATHBOX
	EXPANTION JOINT
	PRESSURE GAUGE
	FLOW SWITCH
	PRESSURE SWITCH
	WATER POINT
	HOSE TAP
	PUMP
	CONTROL PANEL
	CLEAROUT TO SURFACE
	SYPHONIC OUTLET
	RAINWATER OUTLET
	SPREADER
	OVERLAND FLOW ARROW
	STORMWATER FLOW ARROW
	PENETRATION / CORE HOLE IN SLAB
	BEAM PENETRATION
	REDUCER
	STORMWATER GRATE
	STORMWATER COVER
	TRENCH GRATE
	REVISION
	KERB ENTRY PIT
	HAY BALE
	RAINWATER HEAD

ABBREVIATIONS

AS	Australian Standards
BCA	Building Code Of Australia
BDO	Balcony Drain Outlet
BR	Brass
BV	Ball Valve
BWL	Bottom Water Level
CHV	Check Valve
CI	Cast Iron
CIC	Cast In Column
CICL	Cast Iron Cement Lined
CIS	Cast In Slab
CL	Ceiling Level
COS	Clear Out To Surface
CP	Chrome Plated
CU	Copper
CV	Control Valve
DCV	Double Check Valve
DCV-A	Double Check Valve Assembly
DIA	Diameter
DICL	Ductile Iron Cement Lined
DP	Downpipe
DWG	Drawing
e	Existing
ECV	Expansion Control valve
EJ	Expansion Joint
ELEC	Electrical Service
FCR	For Continuation Refer
FFL	Finished Floor Level
FRC	Fibre Reinforced Concrete
FSL	Finished Surface Level
GAL	Galvanised
GD	Grated Drain
GDO	Grated Drain Outlet
GL	Ground Level
GMS	Galvanised Mild Steel
GO	Gutter Outlet
GV	Gate Valve
H/L	High Level
HD	Heavy Duty
HDPE	High Density Polyethylene
HP	High Point
HV	High Voltage
ID	Inside Diameter
IL	Invert Level
IO	Inspection Opening
IS	Inspection Shaft
IV	Isolation Valve
JU	Jump Up
KIP	Kerb Inlet Pit
KPA	Kilopascal
KW	Kilowatt
L	Litres
L/L	Low Level
L/S	Litres Per Second
LD	Light Duty

ABBREVIATIONS cont.

LV	Low Voltage
M	Metre
M.HEAD	Metres Head
M/S	Metres per Second
M3/HR	Cubic Metres per Hour
MDPE	Medium Density Polyethylene
MIN	Minimum
MJD	Movement Joint Drain
MM	Millimetres
MS	Mild Steel
NRV	Non-Return Valve
NTS	Not To Scale
O/F	Overflow
OD	Outside Diameter
OJ	Oblique Junction
PDO	Planter Drain Outlet
PG	Pressure Gauge
PLV	Pressure Limiting Valve
PRV	Pressure Relief Valve
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
RHS	Rectangular Hollow Section
RL	Reduced Level
RPZD	Reduced Pressure Zone Device
RV	Reflux Valve
RWH	Rain Water Head
RWO	Rainwater Outlet
S/S	Stainless Steel
SDO	Spoon Drain Outlet
SL	Surface Level
SO	Syphonic Outlet
SOF	Syphonic Overflow
SPD	Spreader
SQ	Square
SSL	Structural Slab Level
STD	Sprinkler Test Drain
SV	Stop Valve
SWIP	Stormwater Inspection Pit
SWMH	Stormwater Manhole
SWP	Stormwater Pit
SWS	Stormwater Sump
SYP	Syphonic
TB	Thrust Block
TBR	To Be Removed
TEL	Telecommunication Service
TG	Trench Grate
TWL	Top Water Level
TYP	Typical
U/S	Underside
UNO	Unless Noted Otherwise
UPVC	Unplasticised Polyvinyl Chloride
UV	Ultra Violet
VCP	Vitrified Clay Pipe
WL	Water Level

The contractor is responsible for checking all dimensions and site conditions prior to commencing any work. Do not scale drawings, refer to figured dimensions only. Any discrepancies shall immediately be referred to ADCAR Consulting Pty Ltd for clarification. All drawings, plans and specifications are the property of ADCAR Consulting Pty Ltd and must not be used, reproduced or copied wholly or in part without the written permission of ADCAR Consulting Pty Ltd.

REV	DATE	DESCRIPTION	DRN	APP
A	22.09.20	PRELIMINARY ISSUE	MA	PC

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Architect:

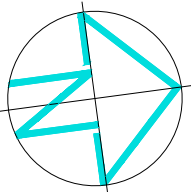
WALTER BARDA DESIGN

Drawing Title:

**COVER SHEET AND LEGEND
STORMWATER SERVICES**

Project:

**128 HEADLAND RD
NORTH CURL CURL, NSW**



DRAWN	ENGINEER	CHECKED	SCALE
MA	MA	PC	NTS
PROJECT No.		DRAWING No.	REVISION
ADC200919		SW-000	A

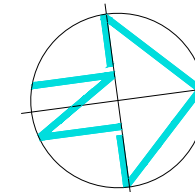
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WALTER BARDA DESIGN



128 HEADLAND RD
NORTH CURL CURL, NSW



DRAWN MA	ENGINEER MA	CHECKED PC	SCALE 1:200
PROJECT No. ADC200919		DRAWING No. SW-100	REVISION A

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CALCULATIONS:

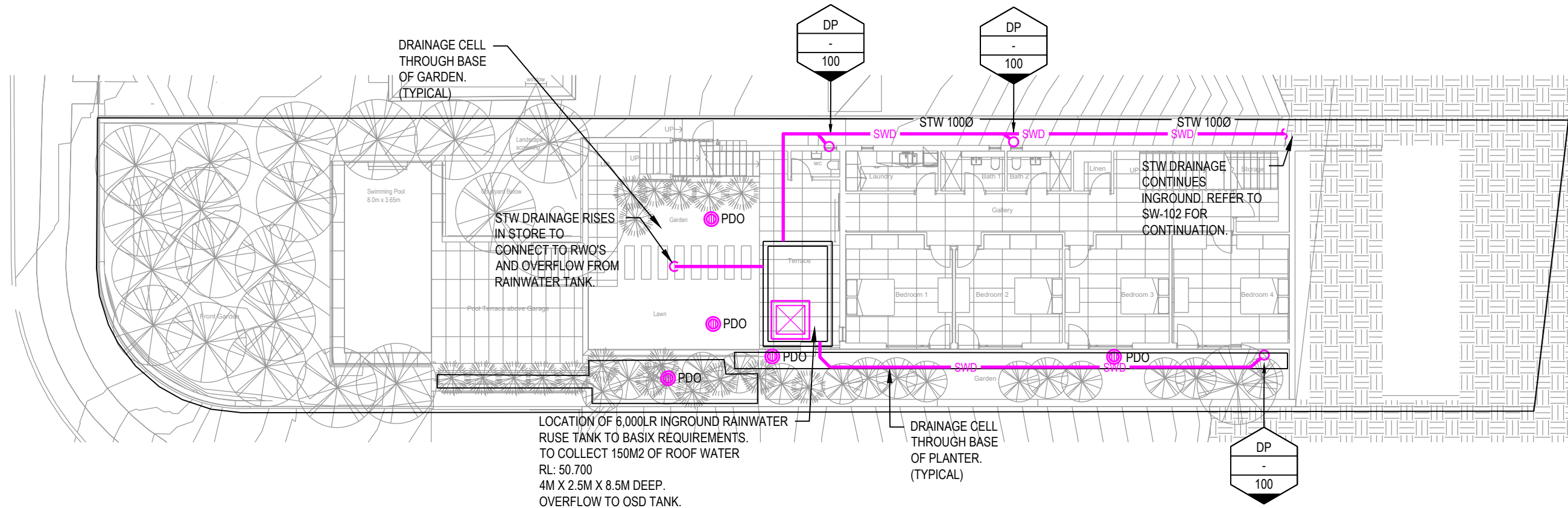
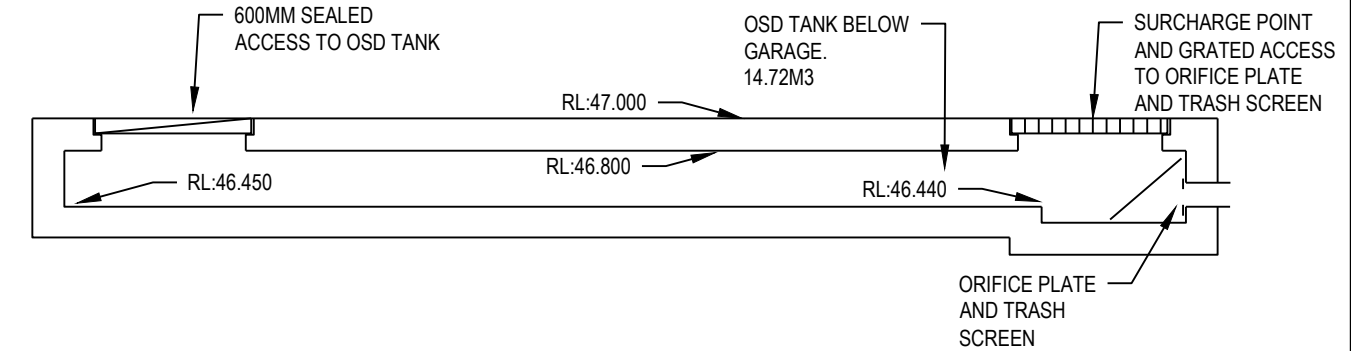
OSD DESIGN TO REQUIREMENTS OF OSD TECHNICAL MANUAL.

CLAUSE 4.2.1

TABLE 1:

$$\text{SSR} - 200\text{M}^3 \text{ PER Ha} = \text{SITE AREA} - 736.4 : 200 \times 0.0736 = 14.72\text{M}^3$$

$$\text{PSD} - 400\text{L/S PAR Ha} = \text{SITE AREA} - 736.4 : 400 \times 0.0736 = 29.44\text{L/S}$$

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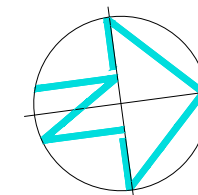
WALTER BARDA DESIGN

Drawing Title:

LOWER GROUND AND GROUND FLOOR PLAN STORMWATER SERVICES

Project:

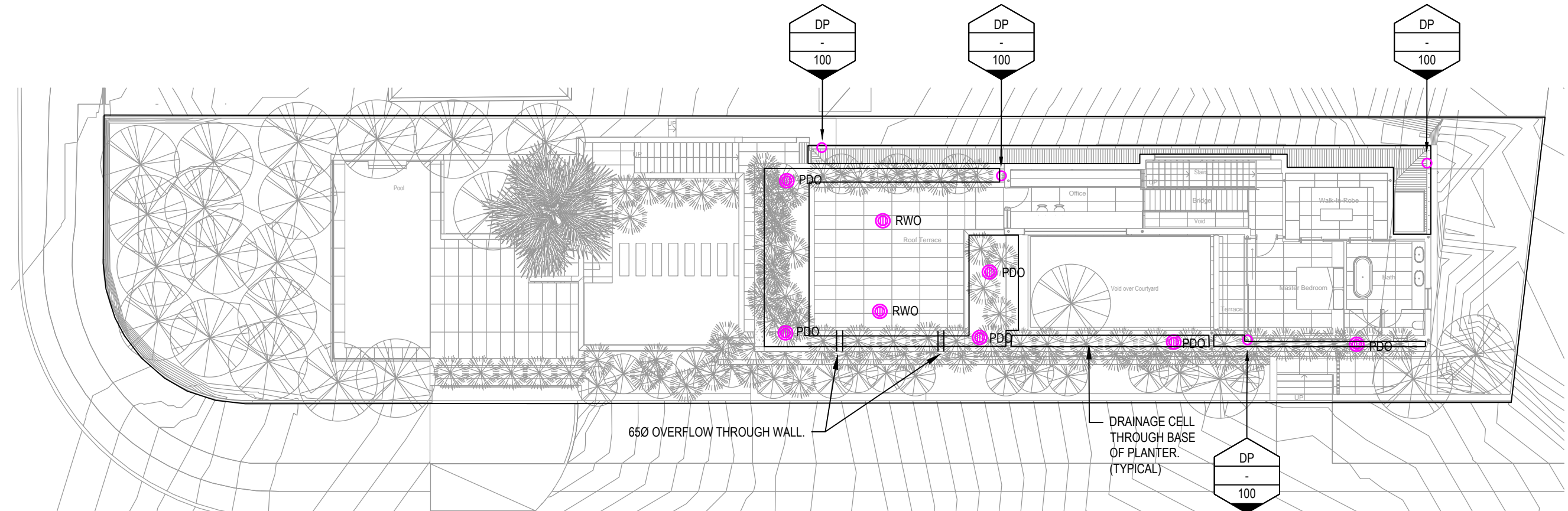
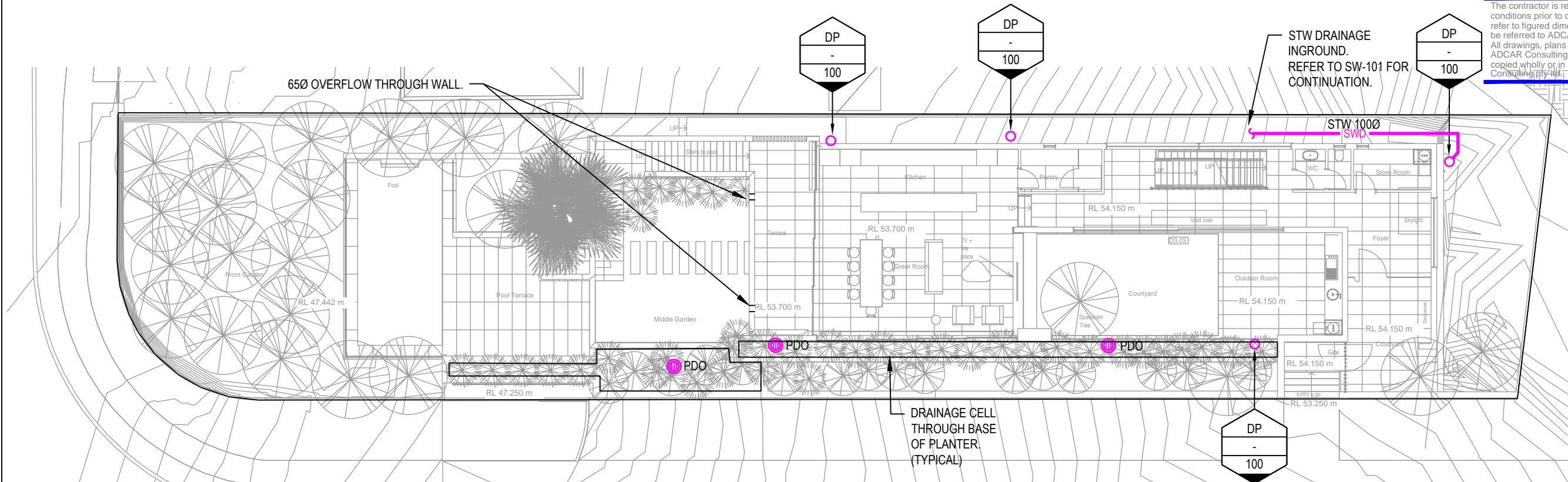
128 HEADLAND RD
NORTH CURL CURL, NSW



DRAWN MA	ENGINEER MA	CHECKED PC	SCALE 1:200
PROJECT No. ADC200919		DRAWING No. SW-101	REVISION A

ORIGINAL SIZE: A3

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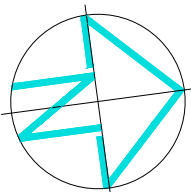


Architect:

WALTER BARDIA DESIGN

Drawing Title:
**FIRST AND SECOND FLOOR PLAN
STORMWATER SERVICES**

Project:
**128 HEADLAND RD
NORTH CURL CURL, NSW**



DRAWN MA	ENGINEER MA	CHECKED PC	SCALE 1:200
PROJECT No. ADC200919		DRAWING No. SW-102	REVISION A

ORIGINAL SIZE: A3