

STORMWATER SERVICES LEGEND

AMENDMENT		
CASTIN		
COLD WATER - EXISTING CONDUIT		
DISCONNECTED SERVICE		
ELECTRICAL SERVICE		
GAS SERVICE - EXISTING		
INSET BORDER		
IRRIGATION LINE		
IRRIGATION LINE - EXISTING		
NON-POTABLE COLD WATER		
NON-POTABLE COLD WATER - EXISTING		
PLANT LINE		
RAINWATER RE-USE		
RAINWATER RE-USE - EXISTING		
SANITARY DRAINAGE - EXISTING		
STORMWATER CATCHMENT		
STORMWATER DRAINAGE - EXISTING		
STORMWATER RISING MAIN		
STORMWATER RISING MAIN - EXISTING		
SUBSOIL		
SUBSOIL - EXISTING		

O	RISER
C	DROPPER
C	TEE DROPPER
J	PIPEWORK CAP
S	PIPEWORK CONTINUATION
//	UNDOCUMENTED CONTINUED LINE
●	PIPEWORK SECTION
→	DIRECTION ARROW
I	NEW CONNECTION
↖	NEXT DRAWING
⊗	SURCHARGE GULLY
⊕	INSPECTION SHAFT
⬅	DIRECTION OF FLOW
—	SERVICE SIZE
➡	DIRECTION OF FLOW
⌵	STOP VALVE
⌵	CHECK VALVE
⌵	BALANCING VALVE
⌵	3-WAY VALVE
⌵	BALL VALVE
⌵	REDUCED PRESSURE ZONE DEVICE
⌵	PRESSURE RELIEF VALVE
⌵	PRESSURE LIMITING VALVE
⌵	SOLENOID VALVE
⌵	DOUBLE CHECK VALVE
⌵	PATHBOX

	EXPANSION JOINT
	HOSE TAP
	PUMP
	CONTROL PANEL
	CLEAROUT TO SURFACE
	BOUNDARY TRAP
	RAINWATER OUTLET
	SPREADER
	OVERLAND FLOW ARROW
	STORMWATER FLOW ARROW
	STORMWATER GRATE
	STORMWATER COVER
	TRENCH GRATE
	REVISION
	KERB ENTRY PIT
	RAINWATER HEAD

DRAINAGE PIPING SYSTEMS	
BT	Boundary trap
CO	Clear Out
DP	Downpipe
GD	Grated Drain
GO	Gutter Outlet
IO	Inspection Opening
IS	Inspection Shaft
KIP	Kerb Inlet Pit
O/F	Overflow
ORG	Overflow Relief Gully
PO	Planter Outlet
RWH	Rain Water Head
RO	Rainwater Outlet
SDO	Spoon Drain Outlet
SWP	Stormwater Pit
TG	Trench Grate

BV	Ball Valve
CV	Check Valve
DCV	Double Check Valve
ECV	Expansion Control valve
FGV	Gate Valve
PLV	Pressure Limiting Valve
PRV	Pressure Reduction Valve
RPZD	Reduced Pressure Zone Device
SV	Stop Valve
VB	Vacuum Breaker

kPa	Kilopascal
L	Litres
L/s	Litres Per Second
m.HEAD	Metres Head
m/s	Metres per Second
m ³ /hr	Cubic Metres per Hour


HT Hose Tap

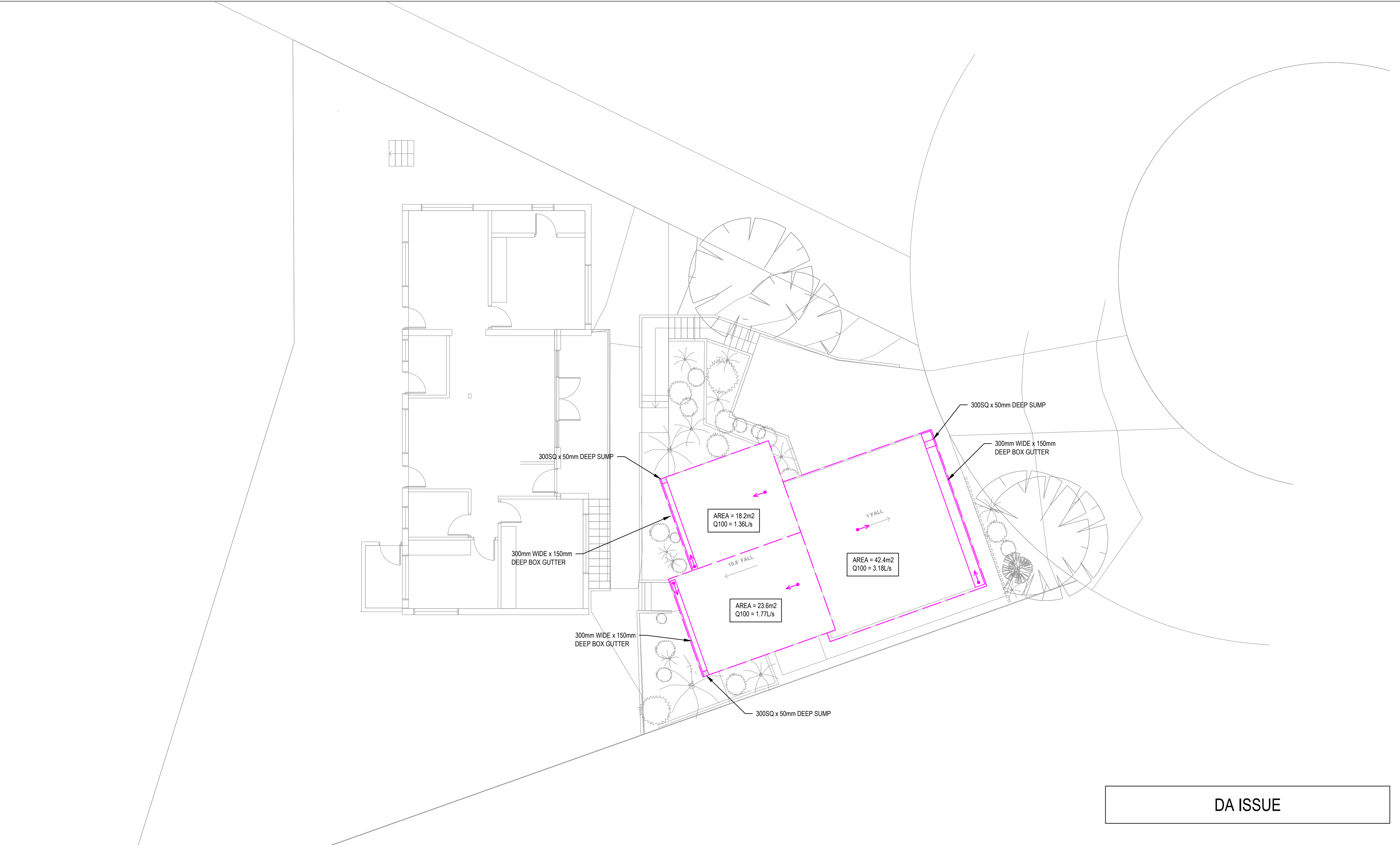
BR	Brass
CI	Cast Iron
CP	Chrome Plated
CICL	Cast Iron Cement Lined
Cu	Copper
DICL	Ductile Iron Cement Lined
FRC	Fibre Reinforced Concrete
GAL	Galvanised
GMS	Galvanised Mild Steel
HDPE	High Density Polyethylene
MDPE	Medium Density Polyethylene
MS	Mild Steel
NY	Nylon
PEX	Cross Linked Polyethylene
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
S/S	Stainless Steel
UPVC	Unplasticised Polyvinyl Chloride
VCP	Vitrified Clay Pipe

LEVELS	
AHD	Australian Height Datum
BWL	Bottom Water Level
CL	Ceiling Level
FFL	Finished Floor Level
FSL	Finished Surface Level
GL	Ground Level
H/L	High Level
HP	High Point
IL	Invert Level
L/L	Low Level
m	Metre
mm	Millimetres
RL	Reduced Level
SL	Surface Level
SOB	Soffit of Beam
SOS	Soffit of Slab
SSL	Structural Slab Level
TWL	Top Water Level
U/S	Underside
WL	Water Level

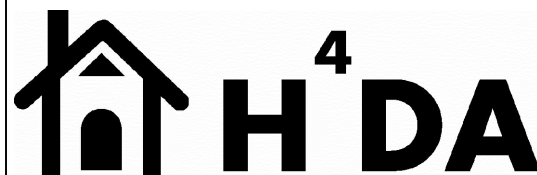

AS	Australian Standards
BCA	Building Code Of Australia
CIC	Cast In Column
CIS	Cast In Slab
DIA	Diameter
DWG	Drawing
EJ	Expansion Joint
ELEC	Electrical Service
HD	Heavy Duty
HV	High Voltage
ID	Inside Diameter
LD	Light Duty
LV	Low Voltage
MIN	Minimum
MJD	Movement Joint Drain
NTS	Not To Scale
OD	Outside Diameter
RHS	Rectangular Hollow Section
TB	Square
TB	Thrust Block
TEL	Telecommunication Service
TYP	Typical
UNO	Unless Noted Otherwise
UV	Ultra Violet

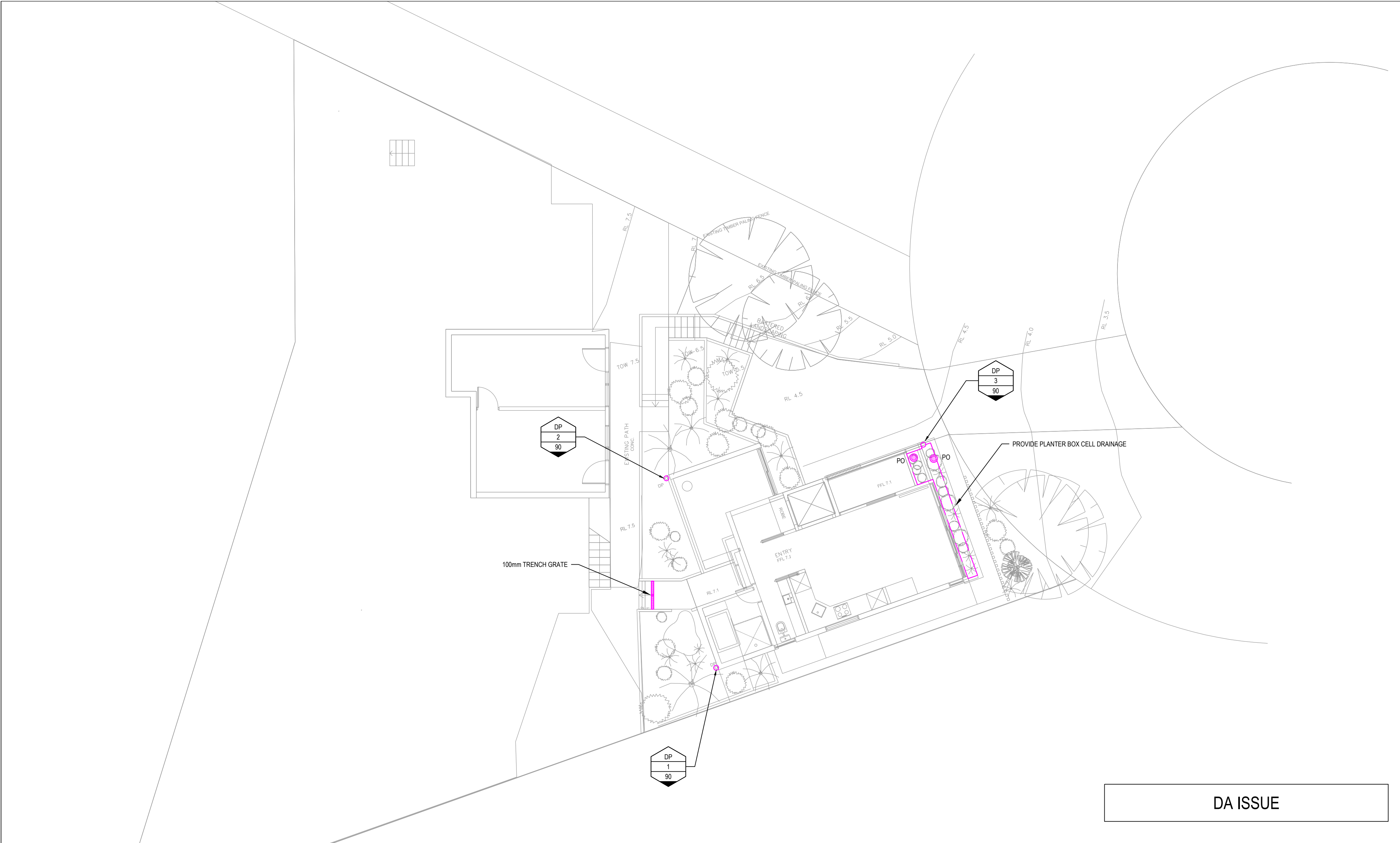
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<div>Hydraulic Consultant:</div> <div></div> <div>PO Box 158 HILLSDALE NSW 2036 Mobile: 0408 820 179 EMAIL: jason@h4da.com.au</div>	Issue	Date	Amendment	Int.	App.	COORDINATED REFERENCE DRAWINGS				Project: 27 GRENFELL AVENUE NORTH NARRABEEN	Drawing Title: STORMWATER SERVICES COVER SHEET & LEGEND	North Point:			
	01	07/12/20	DEVELOPMENT APPLICATION	JW	JW	SERVICE	DRAWING NUMBER	ISSUE	DATE					Design:	
						ARCH								JASON WHITFORD	
						MECH									
						STRUCT						Drawn:			
						ELEC						JASON WHITFORD			
						CIVIL						Job No:			
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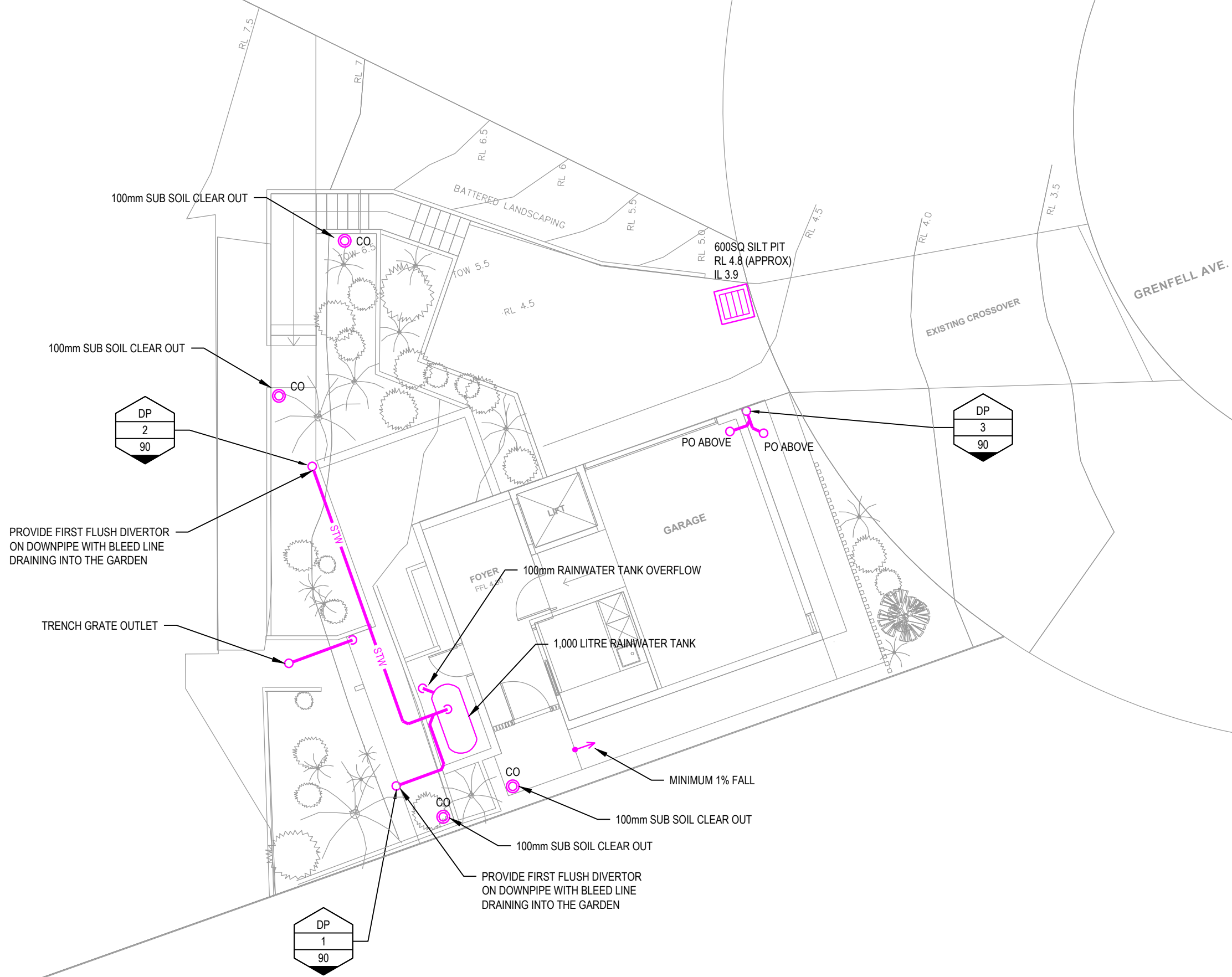
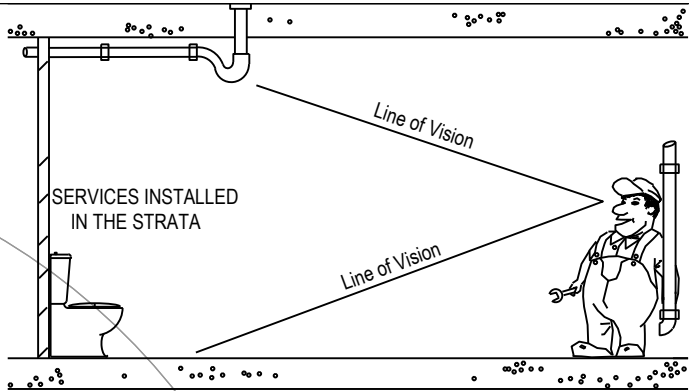


DA ISSUE

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	01	07/12/20	DEVELOPMENT APPLICATION	JW	JW	SERVICE	DRAWING NUMBER	ISSUE					DATE	Design: JASON WHITFORD	
						ARCH									
						MECH									
						STRUCT									
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						FILE NAME & PATH: C:\Users\jason\Dropbox (H4DA)\1. H4DA Pty Limited\Project Files\1. Design Projects (Current)\H420044 - 27 Grenfell Avenue North Narrabeen - DA\Drawings\Current Drawings\SW-01.dwg				Dwg No: SW-01		Issue: 01			
						PLOT DATE & TIME: 06 Dec, 2020 - 4:09pm				NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.					



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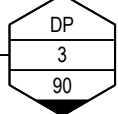
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Project:
27 GRENFELL AVENUE
NORTH NARRABEEN

Drawing Title:
STORMWATER
GRANNY FLAT GARAGE
FLOOR PLAN

NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.

North Point: 		Design: JASON WHITFORD
Job No: H420044		Drawn: JASON WHITFORD
Dwg No: SW-03		Scale: (A2) 1:100
		Issue: 01



Dwg No:	Issue:
SW-04	01

Issue	Date	Amendment	Int.	App.	COORDINATED REFERENCE DRAWINGS			
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