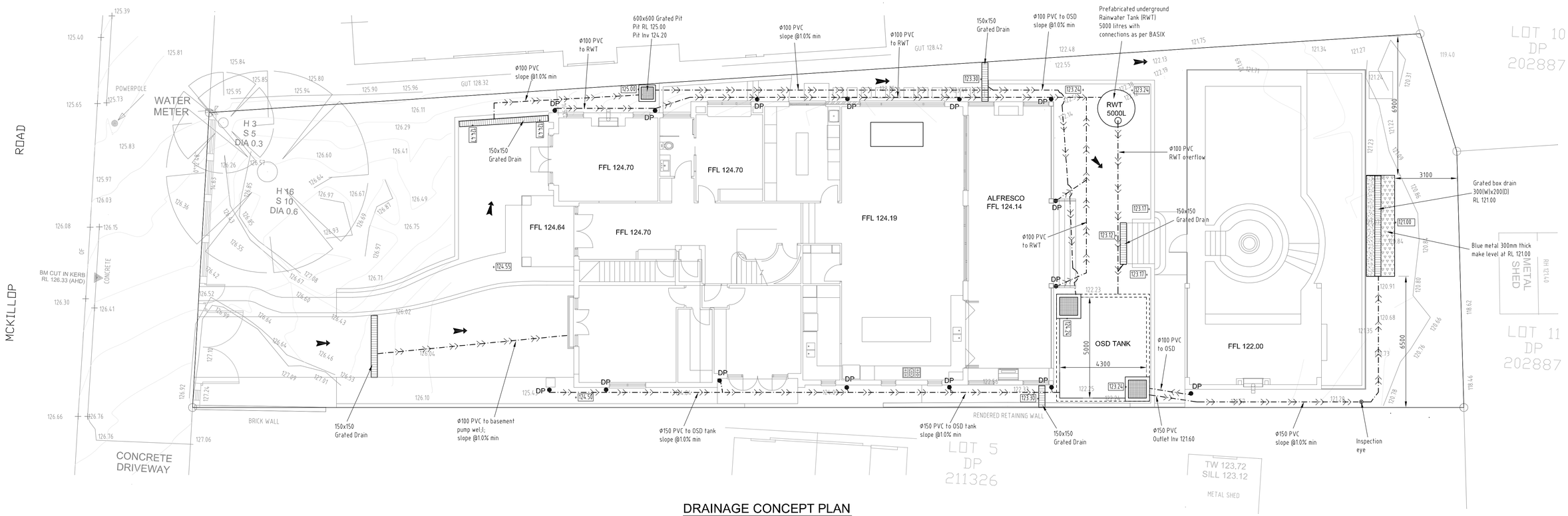
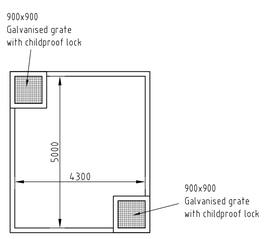


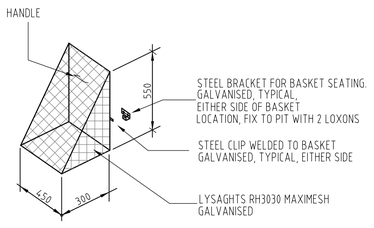
DRAINAGE CONCEPT PLAN

SCALE 1:100



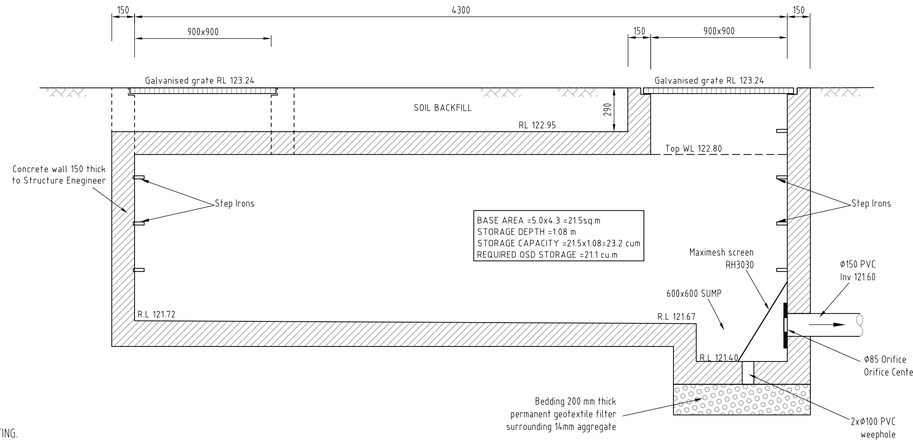
OSD TANK-PLAN VIEW

SCALE 1:100



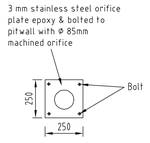
SCREEN DETAILS

NOT TO SCALE



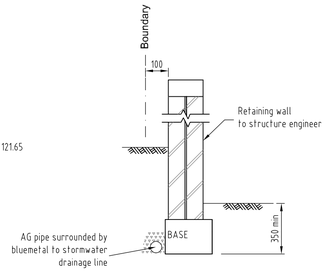
OSD TANK-THROUGH SECTION

SCALE 1:20



ORIFICE PLATE DETAIL

SCALE 1:20



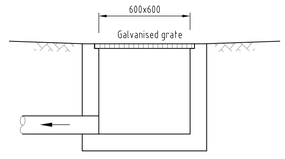
DRAINAGE FOR RETAINING WALL

NTS

DRAINS MODELLING RESULTS

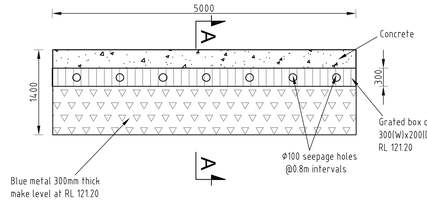
Storm (ARI)	Site discharge (l/s)		OSD storage (cu.m)
	$Pre-developed	#Developed	
Peak 5-year	21	16	9.5
Peak 100-year	47	27	21.1
Available OSD storage =23.2 cu.m -> OK			

$ Under natural condition (100% pervious)
# Including OSD bypass flow



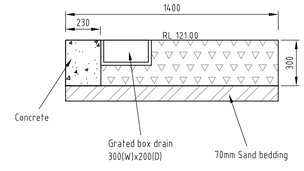
GRATED PIT

SCALE 1:20



FLOWSPREADER -PLAN VIEW

SCALE 1:50



SECTION A-A

SCALE 1:20

DESIGN NOTES:
1/ The applicant has advised that both the rear adjoining neighbours are not contactable for an easement negotiation.
2/ The geotechnical report , dated 16 May 2024, prepared by ESWNMAN , indicates shallow bedrock presence across the site.

SCALE 1:100 @A1 — 0 1 2 3 4 5 m

General notes	Issue	Amendments	Date	Issue	Amendments	Date
NOT FOR CONSTRUCTION	A	For DA	28.06.24			
- Minimum roofgutter slope of 0.5% to downpipe						
- Drainage pipes are Ø100 minimum						
- Dimensions in mm unless indicated otherwise						

LEGEND

+ 45.20	Existing level		Proposed drainage line
45.0	Existing contour		Proposed drainage pit
+45.20	Finished level	DP ●	Proposed Down Pipe
45.20	Proposed ground contour		Overland flow direction

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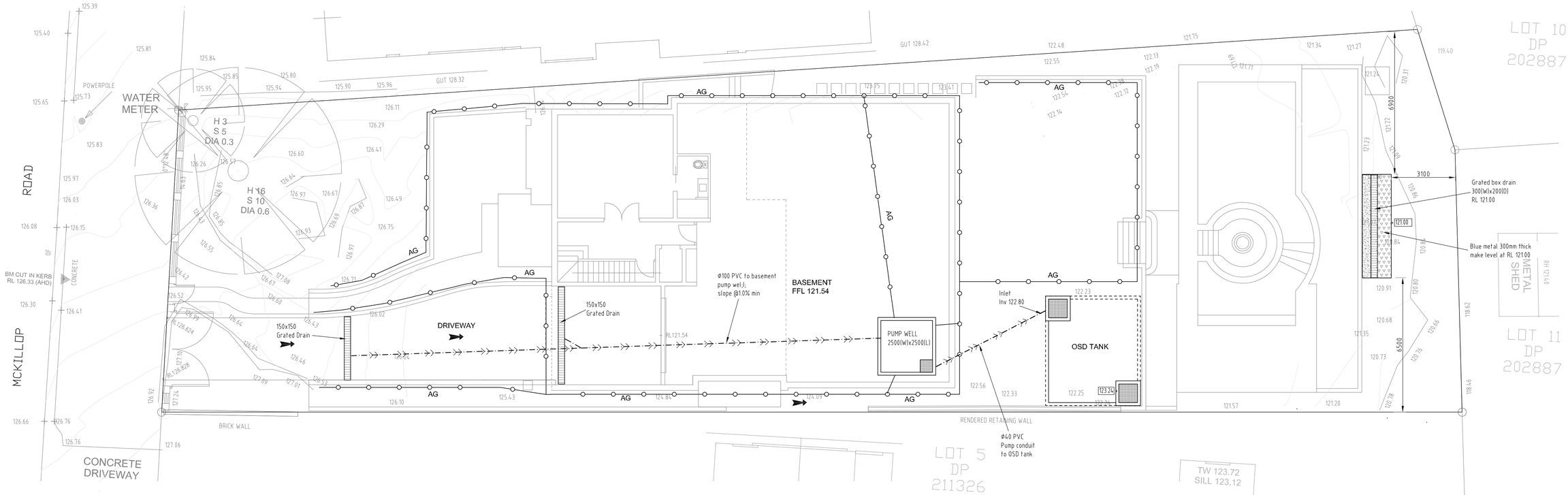
Registered Design Practitioner (DEP0003576)

PROJECT: PROPOSED SINGLE DWELLING
No 35 McKILLOP ROAD, BEACON HILL
NSW

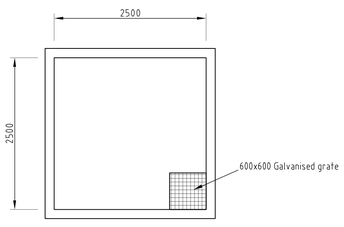
DRAINAGE CONCEPT PLAN & DETAILS

SCALE	AS SHOWN	Drawn: KT	Job #: DG 2789	Date: 21.05.24	Sheet 1 of 2



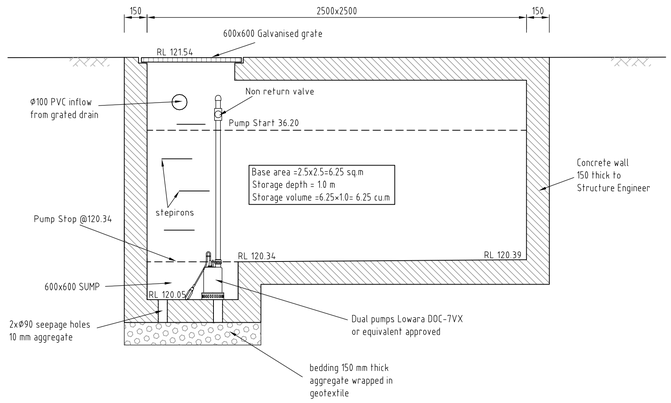
BASEMENT DRAINAGE PLAN

SCALE 1:100



PUMP WELL- PLAN VIEW

SCALE 1:50



PUMP WELL-THROUGH SECTION

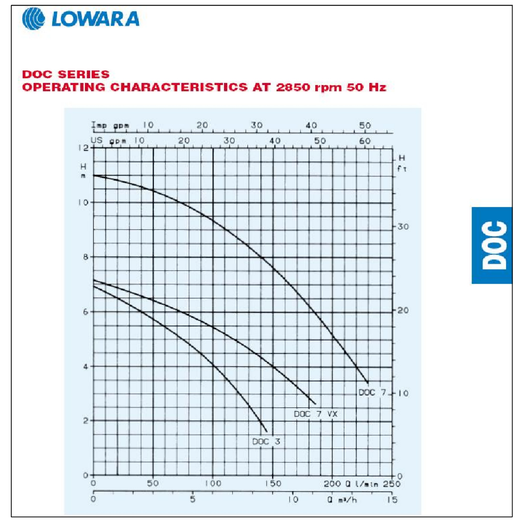
SCALE 1:20

PUMP CALCULATIONS

DESIGN PUMP RATE = 2.5 (l/s) or 150 (l/minute)
PUMP CONDUIT = Φ40
PUMP CONDUIT AREA =0.001256 (sq.m)
PUMP FLOW VELOCITY (V)=1.59 (m/s)

PUMP HEAD LOSS (Hloss)= $kV^2/2g$
ASSUMES TOTAL HEAD LOSS COEFFICIENT ,k=3
Hloss = 0.38 (m)

Zoutlet = 120.34 (m)
Zpump = 122.80 (m)
Hloss = 0.38 (m)
Pump Head = Zoutlet-Zpump-Hloss = 2.8 (m)
=> Select Lowara-DOC 7VX pump



SCALE 1:100 @A1

0 1 2 3 4 5 m

General notes	Issue	Amendments	Date	Issue	Amendments	Date
NOT FOR CONSTRUCTION	A	For DA	28.06.24			
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- Drainage pipes are Ø100 minimum						
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LEGEND

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45.0	Existing contour		Proposed drainage pit
45.20	Finished level	DP ●	Proposed Down Pipe
45.20	Proposed ground contour		Overland flow direction

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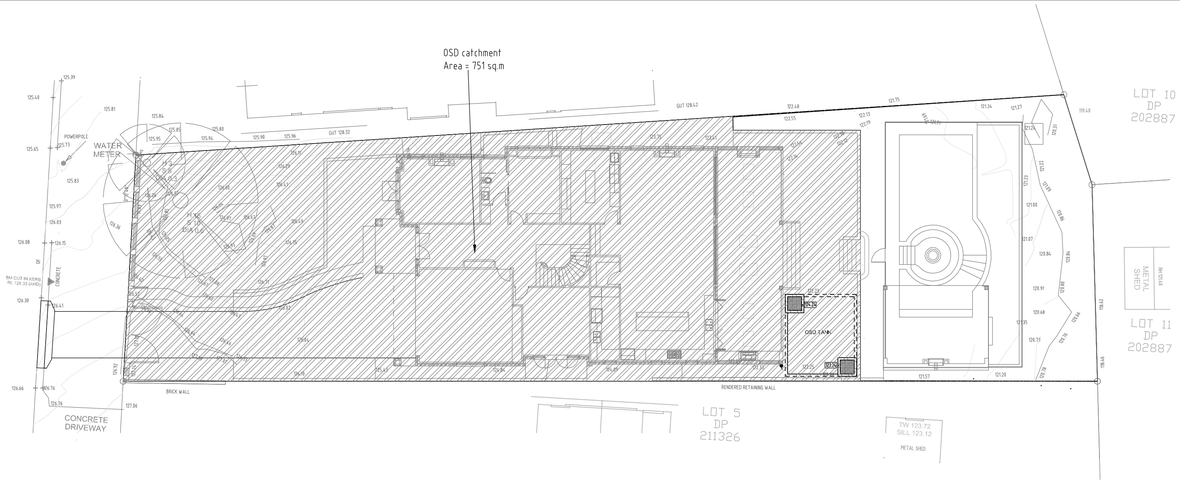
PROJECT: PROPOSED SINGLE DWELLING
No 35 McKILLOP ROAD, BEACON HILL
NSW

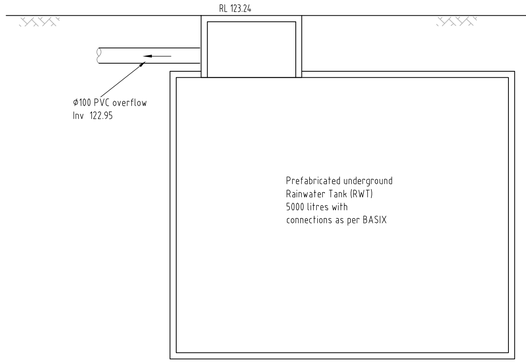
BASEMENT DRAINAGE PLAN & DETAILS

SCALE	AS SHOWN	Drawn: KT	Job #: DG 2789	Date: 21.05.24	Sheet 2 of 3



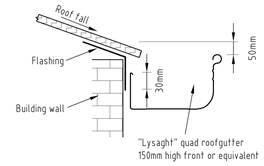
OSD CATCHMENT PLAN

SCALE 1:200



RAINWATER TANK (RWT)

NOT TO SCALE

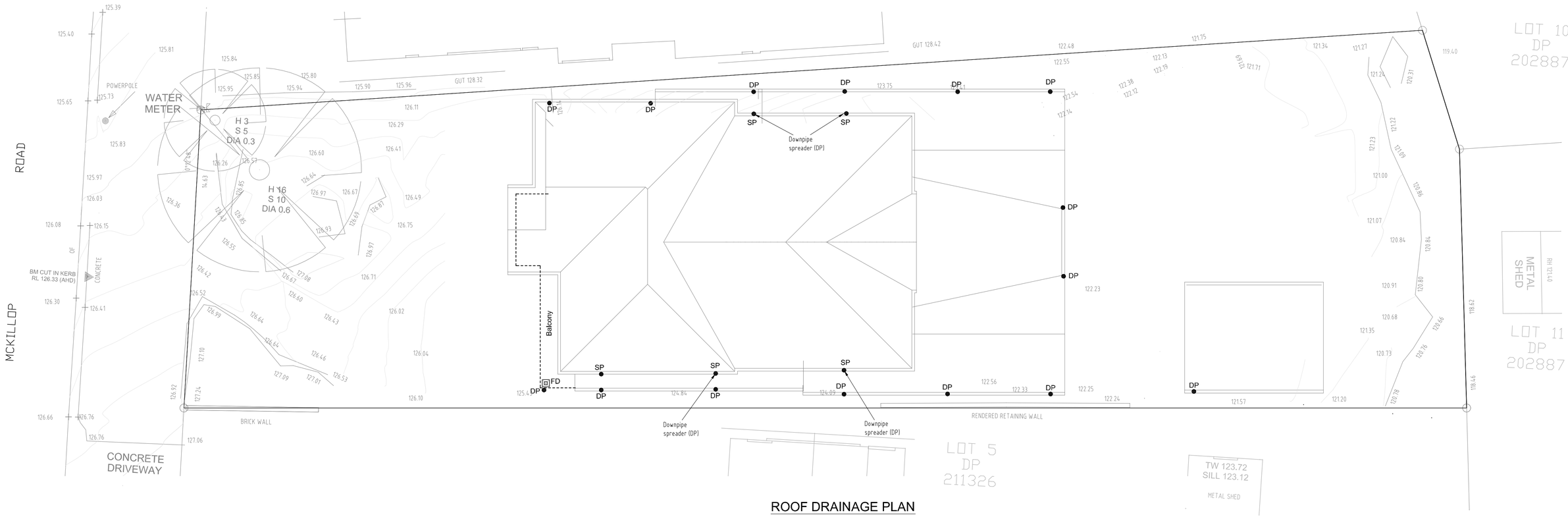


ROOF GUTTER & OVERFLOW

NOT TO SCALE

FLOOR DRAIN (FD)

SCALE 1:10



ROOF DRAINAGE PLAN

SCALE 1:100

General notes	Issue	Amendments	Date	Issue	Amendments	Date
NOT FOR CONSTRUCTION	A	For DA	28.06.24			
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- Drainage pipes are Ø100 minimum						
- Dimensions in mm unless indicated otherwise						

LEGEND

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45.0	Existing contour		Proposed drainage pit
+45.20	Finished level	DP ●	Proposed Down Pipe
45.20	Proposed ground contour	➤	Overland flow direction

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SCALE: AS SHOWN

PROJECT: PROPOSED SINGLE DWELLING
No 35 McKILLOP ROAD, BEACON HILL
NSW

OSD CATCHMENT& ROOF DRAINAGE PLAN

Drawn: KT | Job #: DG 2789 | Date: 21.05.24 | Sheet 3 of 3