

NOTES

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- ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
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- EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.

LEGEND

- RL PIT SURFACE LEVEL
- IL INVERT LEVEL
- TK TOP OF KERB
- STORMWATER DRAINAGE PIPE
- DOWNPIPE TO RAIN WATER TANK
- Ø100 SUBSOIL PIPE
- RAIN WATER TANK OVER FLOW PIPE
- PROPOSED RISING MAIN
- EXISTING STORMWATER PIPE
- DP PROPOSED DOWN PIPE
- EX-DP EXISTING DOWN PIPE
- CO CLEAN OUT
- DPS DOWN PIPE SPREADERS
- VD VERTICAL DROP
- VR VERTICAL RISER
- FW FLOOR WASTE 150Ø
- ▣ GRATED INLET PIT
- ▣ 200mm WIDE GRATED DRAIN



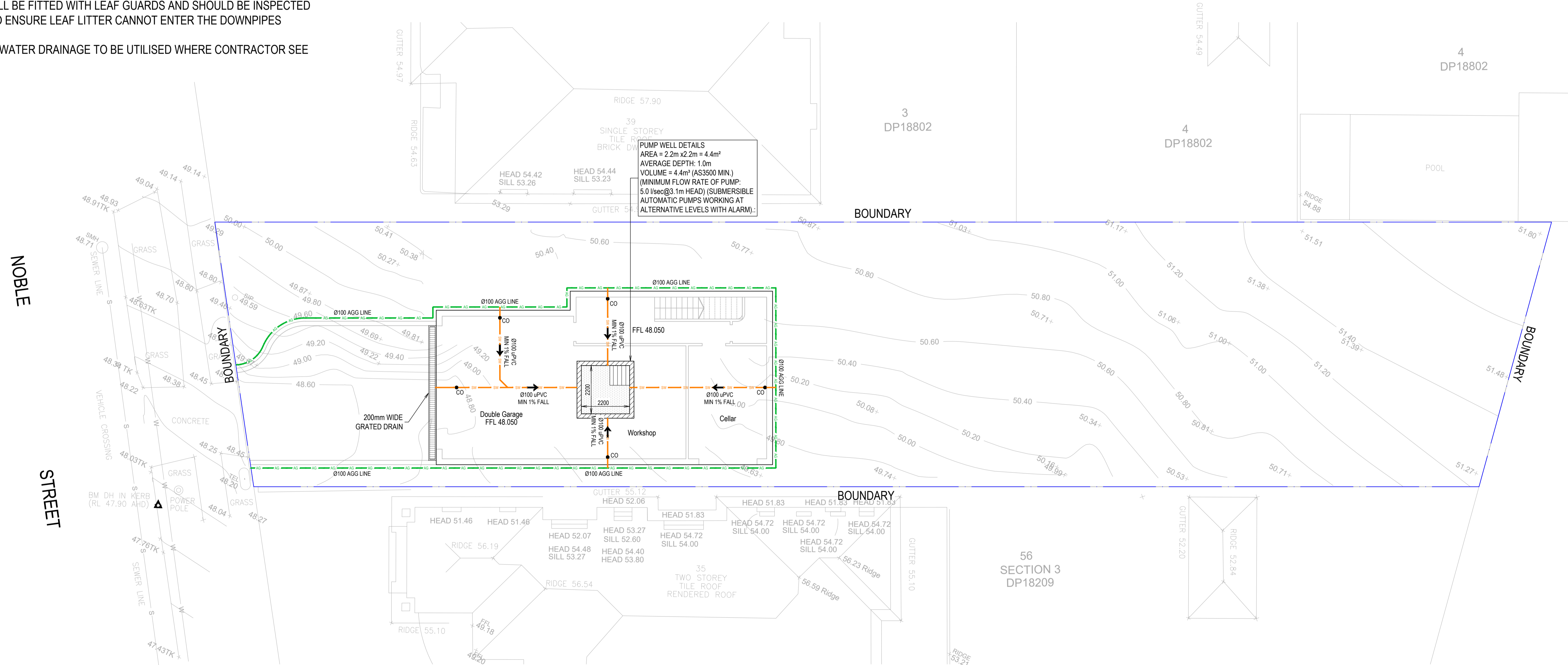
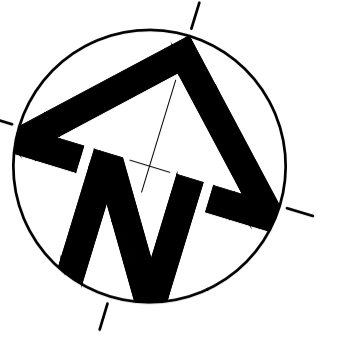
PUMP WELL DETAILS

AREA DRAINING TO SUMP= 57m²

SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I = 38.3 mm/hr,
 Q=CIA/3600= 1X 57 X 38.3/3600 = 0.606 l/sec
 VOLUME REQUIRED = 0.606 X (2X60X60) = 4366.2 L = 4.366m³
 STORAGE PROVIDED 2.2 X 2.2 X 1 = 4.4m³ (AS 3500 MIN.)

PUMP OUT RATE BASED ON 100YR 5MIN STORM, I=208 mm/hr
 Q=CIA/3600= 1X 208 X 57/3600 = 3.29 l/sec
 Q= 5.0 l/sec (AS 3500 MIN.)

DUAL KS-08 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO OPERATE SIMULTANEOUSLY ON HIGH LEVEL ALARMS AT 5.0 l/sec (PER PUMP) AT 3.1m HEAD



No	AMENDMENT	ENG	DRAFT	DATE
A	ISSUED FOR DA	A.E.	A.E.	06.02.24

ae CONSULTING ENGINEERS

P: 9037 0731
 E: info@aeconsulting.com.au
 W: www.aeconsulting.com.au

ARCHITECT

DAWSONVU

po box 1152 huntles hill nsw 2110
 www.dawsonvu.com.au
 info@dawsonvu.com.au
 t: 0438 297 973
 michael@dawsonvu.com.au
 0438 297 962

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56 SECTION 3 DP18209

SHEET SUBJECT

STORM WATER DRAINAGE PLAN BASEMENT LEVEL

PROJECT: 37 NOBLE AVENUE, PUNCHBOWL, NSW 2196			
DATE	DRAWN	DESIGNED	CHECKED
09.02.2024	A.E.	A.E.	A.E.
SCALE @ A1		JOB No	
1:100		D24026	
AUTHORISED		DWG No	REV
A.E.		SW10	A

ISSUED FOR DA

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- EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.

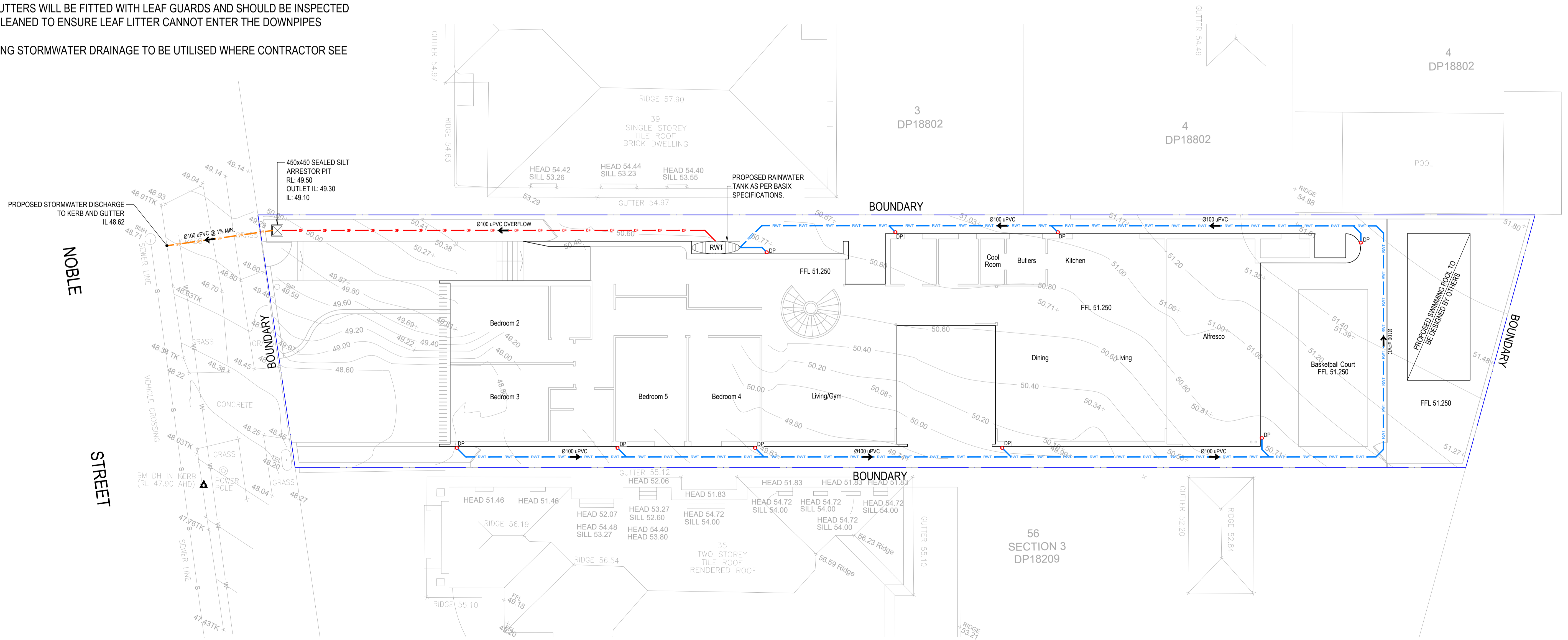
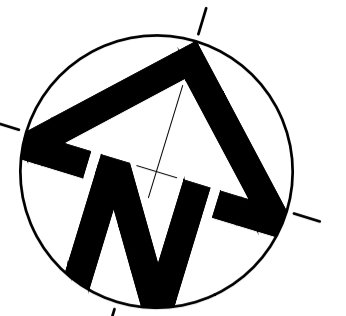
LEGEND

- RL PIT SURFACE LEVEL
- IL INVERT LEVEL
- TK TOP OF KERB
- — — — — STORMWATER DRAINAGE PIPE
- — — — — DOWNPIPE TO RAIN WATER TANK
- — — — — Ø100 SUBSOIL PIPE
- — — — — RAIN WATER TANK OVER FLOW PIPE
- — — — — PROPOSED RISING MAIN
- — — — — EXISTING STORMWATER PIPE
- DP PROPOSED DOWN PIPE
- EX-DP EXISTING DOWN PIPE
- CO CLEAN OUT
- DPS DOWN PIPE SPREADERS
- VD VERTICAL DROP
- VR VERTICAL RISER
- FW FLOOR WASTE 150Ø
- ▣ GRATED INLET PIT
- ▣ 200mm WIDE GRATED DRAIN



DESIGN NOTES

- LGA = CANTERBURY BANKSTOWN COUNCIL
- SITE AREA = 701.9 m²
- SCOPE OF WORKS TO INCLUDE DEMOLITION OF EXISTING DWELLING AND CONSTRUCTION OF DWELLING.
- IN ACCORDANCE TO COUNCIL SPECIFICATIONS OSD IS NOT REQUIRED FOR SUBJECT DEVELOPMENT AS IMPERVIOUS AREA IS LESS THAN 75%.
- PROPOSED RAINWATER TANK PER DWELLING AS PER BASIX SPECIFICATIONS.
- IMPERVIOUS SITE AREA = 509.65m² (72.6% < 75%)



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ae CONSULTING ENGINEERS

P: 9037 0731
 E: info@aeconsulting.com.au
 W: www.aeconsulting.com.au

ARCHITECT

DAWSONVU

PO BOX 1152 HUNTERS HILL NSW 2110
 WWW.DAWSONVU.COM.AU
 INFO@DAWSONVU.COM.AU
 TONG@DAWSONVU.COM.AU
 MICHAEL@DAWSONVU.COM.AU
 0438 297 973
 0438 297 962

CLIENT

56 SECTION 3 DP18209

SHEET SUBJECT

**STORM WATER DRAINAGE PLAN
 GROUND FLOOR LEVEL**

PROJECT: 37 NOBLE AVENUE, PUNCHBOWL, NSW 2196			
DATE	DRAWN	DESIGNED	CHECKED
09.02.2024	A.E.	A.E.	A.E.
SCALE @ A1		JOB No	
1:100		D24026	
AUTHORISED		DWG No	REV
A.E.		SW20	A

ISSUED FOR DA

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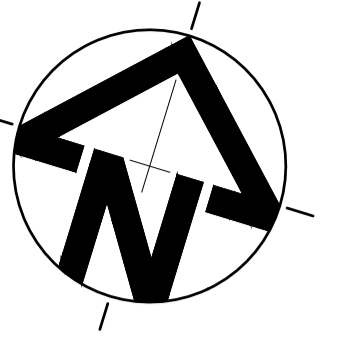
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NOTES

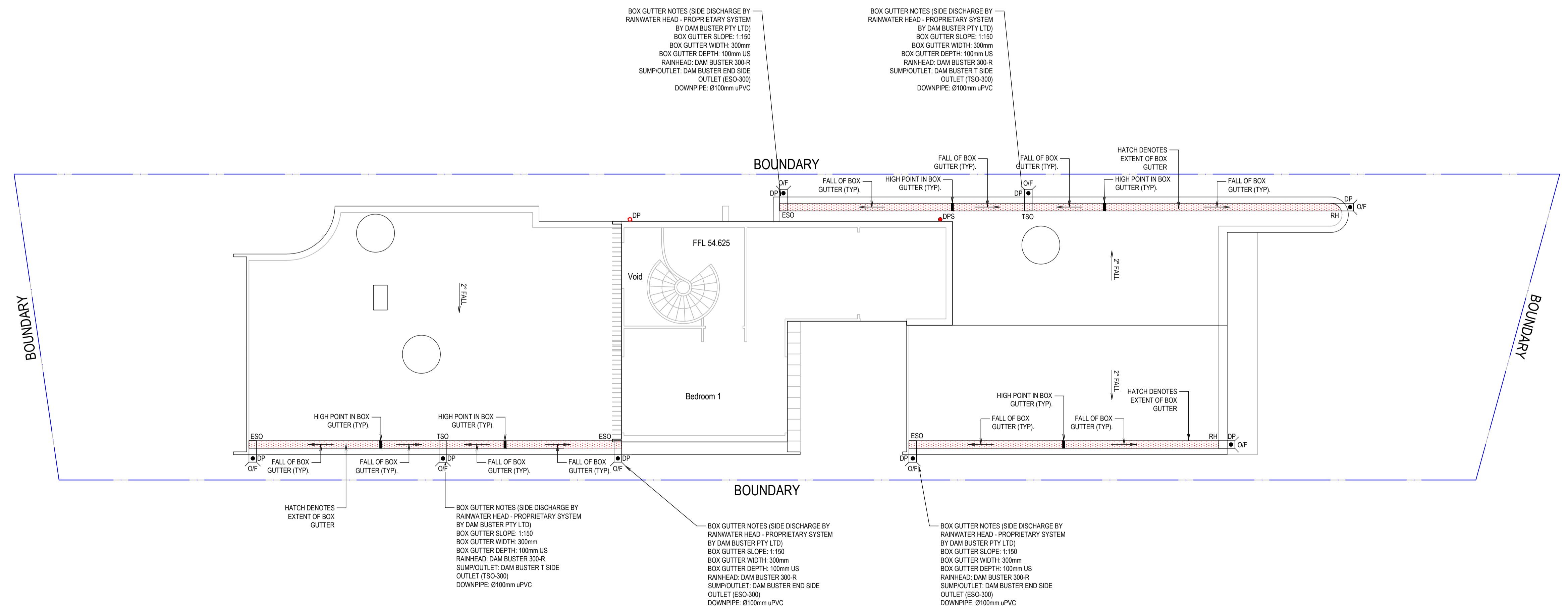
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- EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.

LEGEND

- RL PIT SURFACE LEVEL
- IL INVERT LEVEL
- TK TOP OF KERB
- SW — SW — Stormwater Drainage Pipe
- DW — DW — Downpipe to Rain Water Tank
- SS — SS — Ø100 Subsoil Pipe
- RTOF — RTOF — Rain Water Tank Over Flow Pipe
- P — P — Proposed Rising Main
- E — E — Existing Stormwater Pipe
- DP Proposed Down Pipe
- EX-DP Existing Down Pipe
- CO Clean Out
- DPS Down Pipe Spreaders
- VD Vertical Drop
- VR Vertical Riser
- FW Floor Waste 150Ø
- ▢ Grated Inlet Pit
- ▢ 200mm Wide Grated Drain



NOBLE STREET



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ae CONSULTING ENGINEERS

P: 9037 0731
 E: info@aeconsulting.com.au
 W: www.aeconsulting.com.au

ARCHITECT

AWSONVU

po box 1152 huntleys hill nsw 2110
 www.awsonvu.com.au
 info@awsonvu.com.au
 truong@awsonvu.com.au
 0438 297 973
 michael@awsonvu.com.au
 0438 297 942

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SHEET SUBJECT

**STORM WATER DRAINAGE PLAN
 FIRST FLOOR LEVEL**

PROJECT: 37 NOBLE AVENUE, PUNCHBOWL, NSW 2196			
DATE	DRAWN	DESIGNED	CHECKED
09.02.2024	A.E.	A.E.	A.E.
SCALE @ A1 1:100		JOB No D24026	
AUTHORISED A.E.		DWG No SW30	REV A

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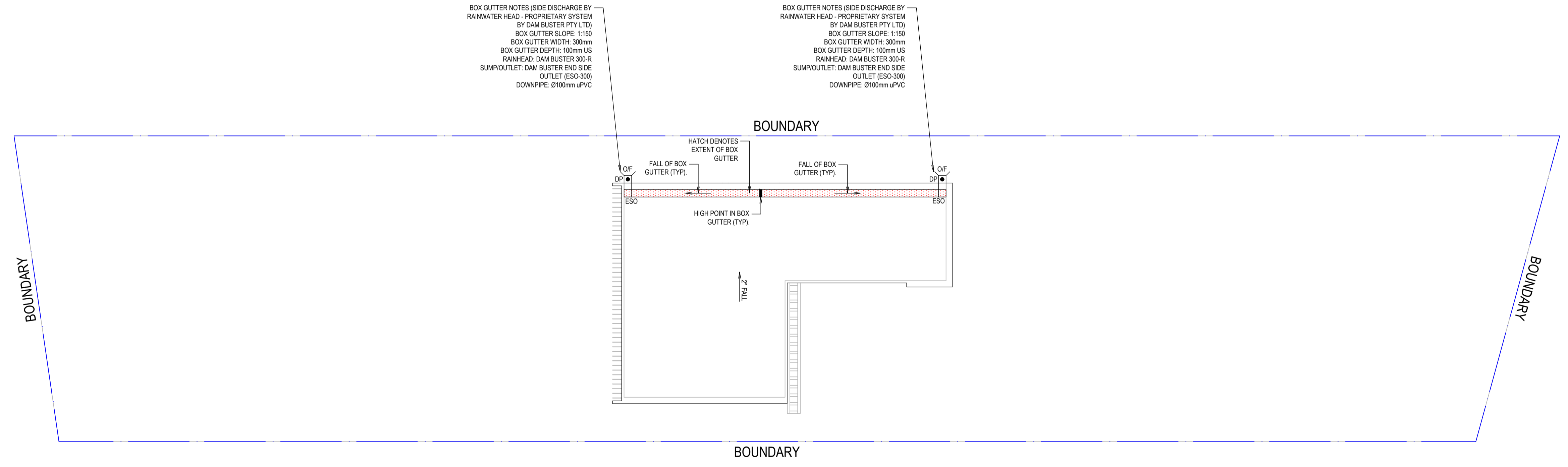
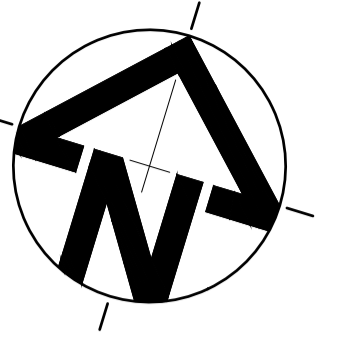
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LEGEND

-  STORMWATER DRAINAGE PIPE
-  DOWNPIPE TO RAIN WATER TANK
-  Ø100 SUBSOIL PIPE
-  DP
-  DPS
-  FW



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DAWSONVU

po box 1152 huntles hill nsw 2110
 www.dawsonvu.com.au
 info@dawsonvu.com.au
 tcong@dawsonvu.com.au
 0438 297 973
 michoel@dawsonvu.com.au
 0438 297 962

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SHEET SUBJECT

**STORM WATER DRAINAGE PLAN
 ROOF LEVEL**

PROJECT: 37 NOBLE AVENUE, PUNCHBOWL, NSW 2196			
DATE	DRAWN	DESIGNED	CHECKED
09.02.2024	A.E.	A.E.	A.E.
SCALE @ A1		JOB No	
1:100		D24026	
AUTHORISED		DWG No	REV
A.E.		SW40	A

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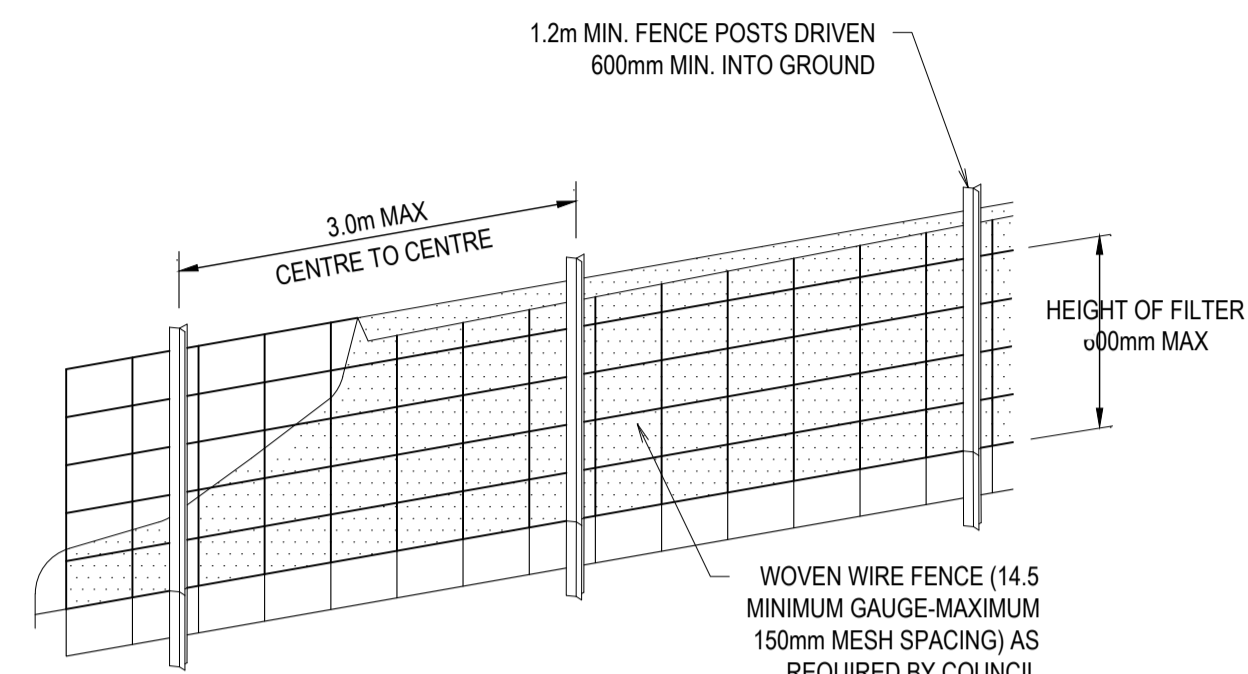
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EROSION & SEDIMENT CONTROL PLAN

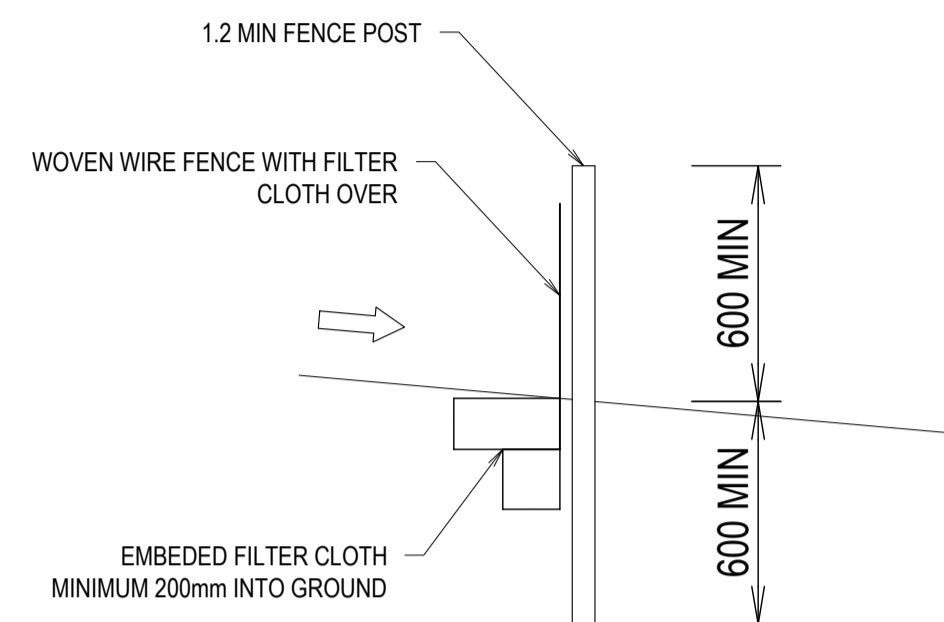
SCALE: 1:100

NOTES:

1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO THE DEVELOPMENT AT THE SUBJECT SITE
2. THE CONTRACTOR MUST ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION
3. ALL BUILDERS AND SUB-CONTRACTORS SHALL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMIZING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWN SLOPE LANDS AND WATERWAYS
4. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL
5. FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES
6. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE BY FILTERING THROUGH AN APPROVED STRUCTURE
7. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING HAVE BEEN REHABILITATED
8. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THEY HAVE OPERATED EFFECTIVELY AND REMAIN IN WORKING CONDITION
9. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITHIN ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY
10. PROVIDE SILT FENCE/HAY BALE BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL)
11. ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS
12. DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY

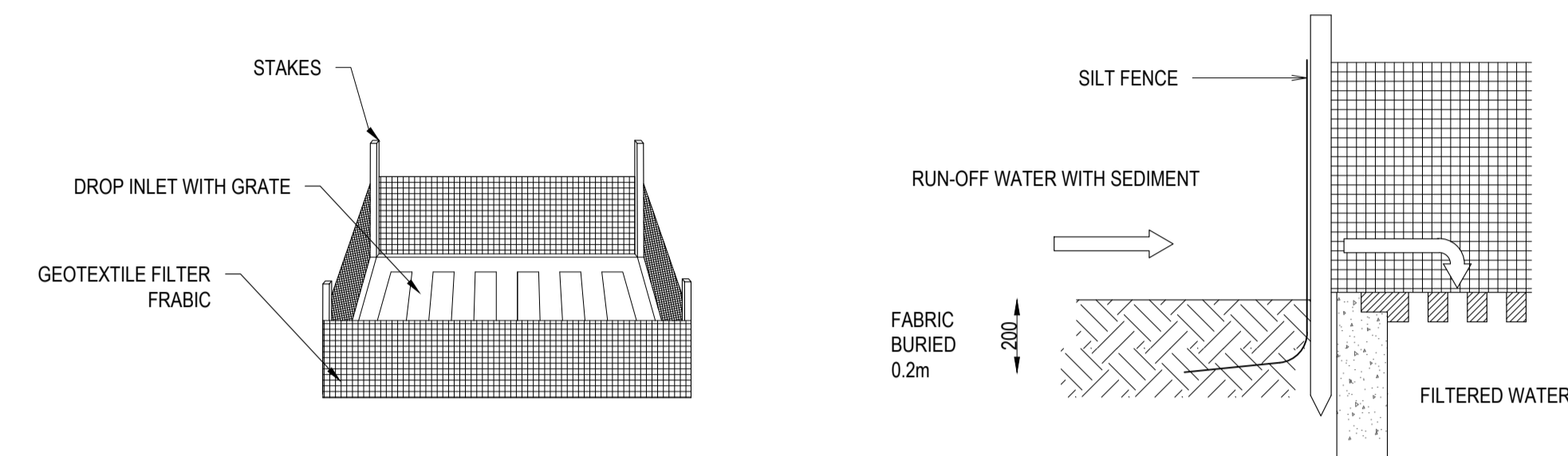


DIAGRAMMATIC VIEW

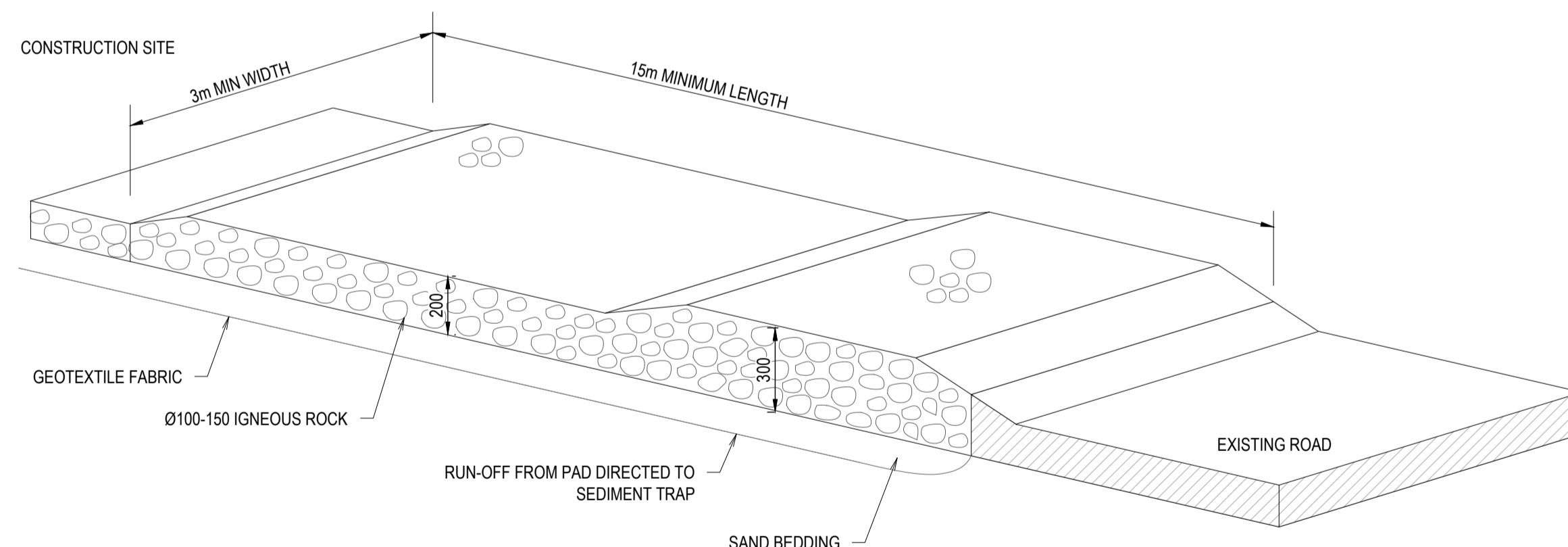


TYPICAL SECTION

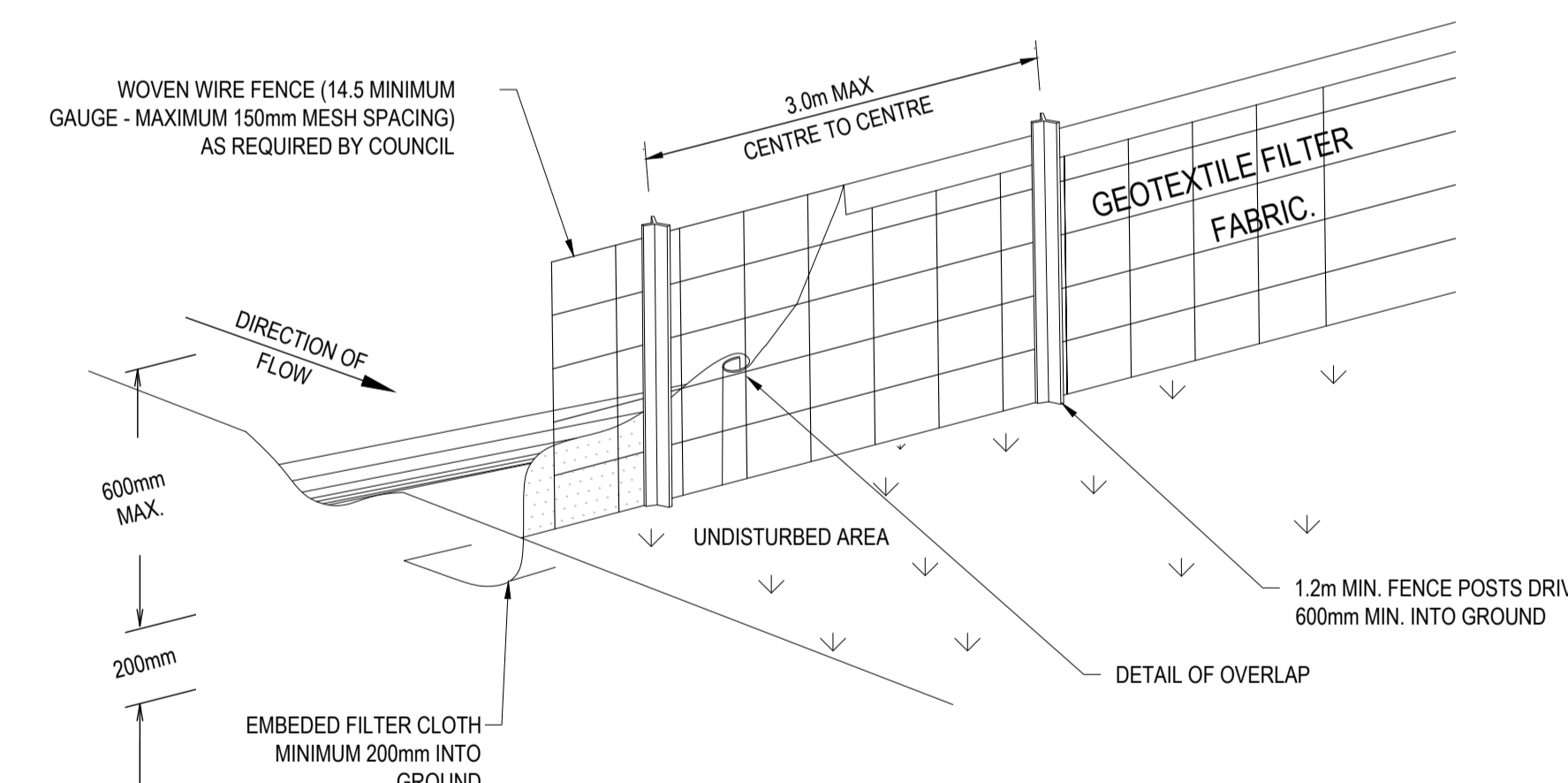
1 SEDIMENT FENCE DETAIL
NOT TO SCALE



2 SUMP SEDIMENT TRAP DETAIL
NOT TO SCALE



3 TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE



4 SEDIMENT FENCE
NOT TO SCALE

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info@dawsonvu.com.au
trcong@dawsonvu.com.au
0438 297 973
michae@dawsonvu.com.au
0438 297 962

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SHEET SUBJECT

EROSION & SEDIMENT CONTROL DETAILS

PROJECT: 37 NOBLE AVENUE, PUNCHBOWL, NSW 2196			
DATE	DRAWN	DESIGNED	CHECKED
09.02.2024	A.E.	A.E.	A.E.
SCALE @ A1		JOB No	
AS SHOWN		D24026	
AUTHORISED		DWG No	REV
A.E.		SW50	A

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WARNING
 PUMP OUT SYSTEM
 FAILURE IN BASEMENT
 WHEN LIGHT IS FLASHING
 AND SIREN SOUNDING

COLOURS :
 WARNING - RED
 BORDER AND OTHER - BLACK

NOTES:

SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT.

A SUITABLE ALARM SYSTEM POSITIONED AT ENTRANCE OF BASEMENT CARPARK TO PROVIDE A FLOOD WARNING IN CASE OF PUMP FAILURE (TO COUNCILS SPEC).

PUMP SPECIFICATIONS: STANDARD PUMP-OUT NOTES

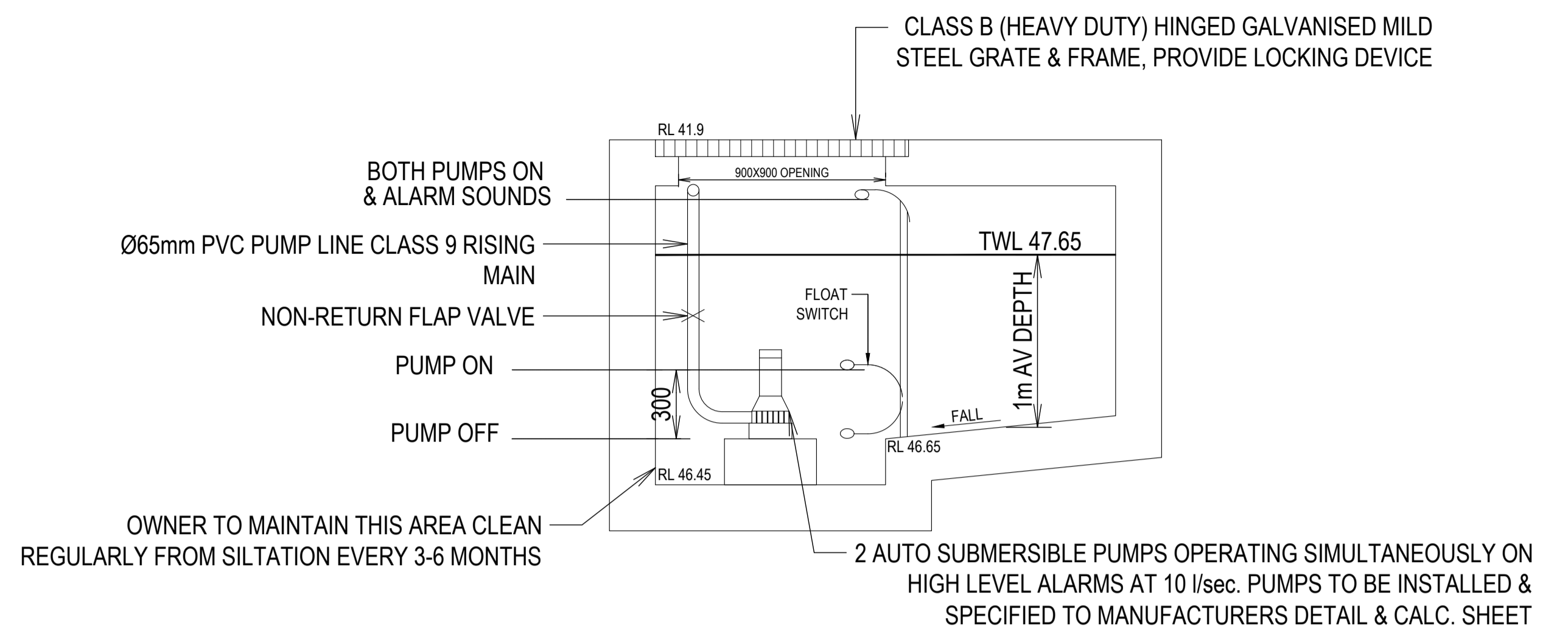
- THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -
1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & PUMP LIFE.
 2. A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
 3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
 4. A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING & ACTIVATE THE ALARM.
 5. AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

Type	Output		Outlet		Rated Head Capacity		Maximum Capacity		Weigh	Dimension		
	HP	kW	mm	Inch	M	LPM	M	LPM		L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610

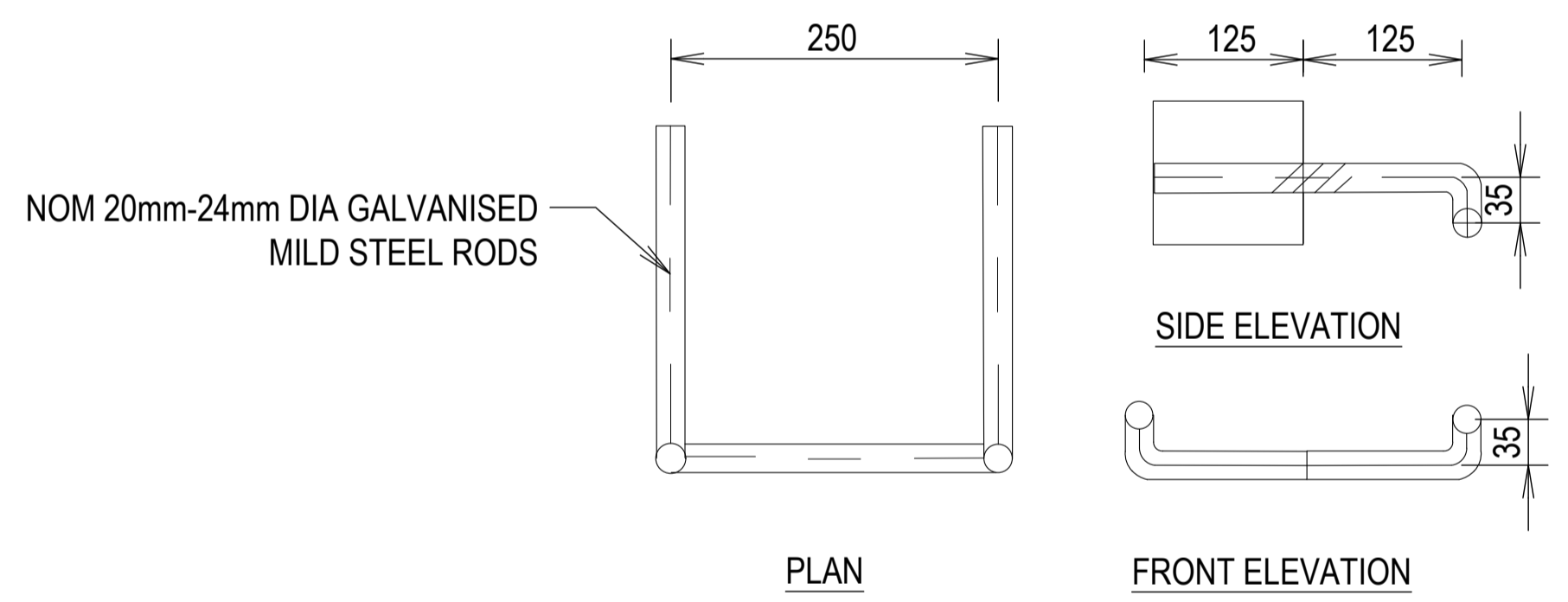


COLOURS:
 "DANGER" AND BACKGROUND WHITE
 ELLIPTICAL AREA RED
 RECTANGLE CONTAINING ELIPSE BLACK
 OTHER LETTERING AND BORDER BLACK

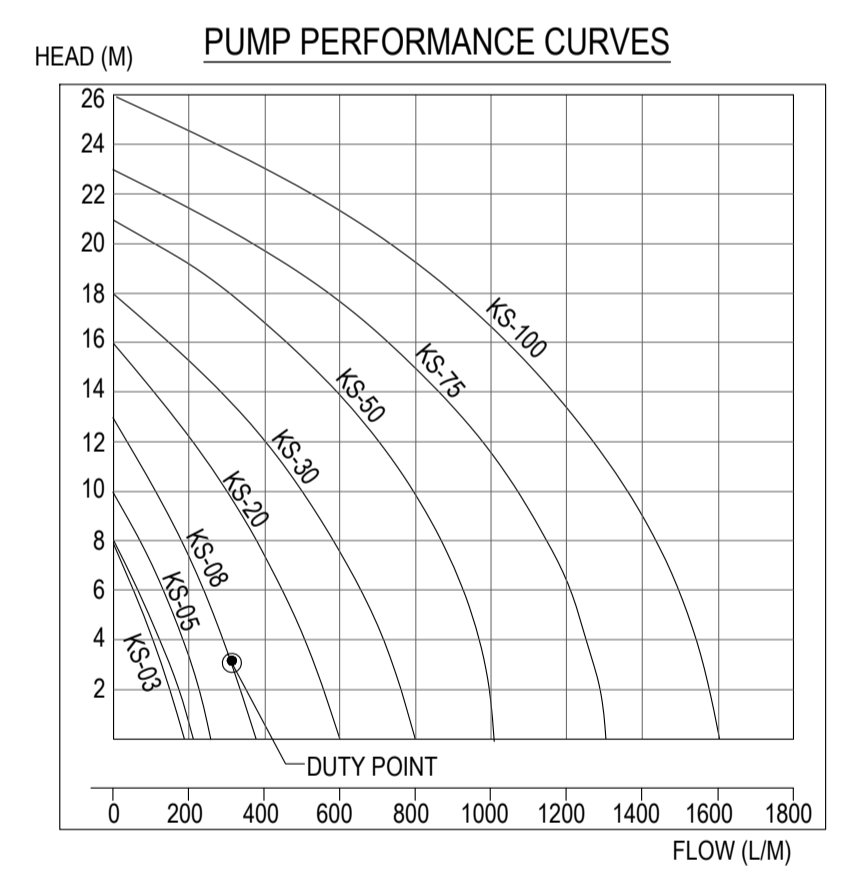
MATERIALS:
 POLYPROPYLENE



TYPICAL SECTION THROUGH PUMP PIT
 SCALE 1:20
 PUMP WELL VOLUME 3.0m³



DETAIL
 STEP IRONS
 1:5
 NOTE: INSTALL WHERE PITS ARE DEEPER THAN 1000



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ARCHITECT
DAWSONVU
 po box 1152 huntleys hill nsw 2110
 www.dawsonvu.com.au
 info@dawsonvu.com.au
 ttrong@dawsonvu.com.au
 0438 297 973
 michael@dawsonvu.com.au
 0438 297 962

CLIENT

SHEET SUBJECT
STORMWATER SECTIONS & DETAILS
 SHEET 1

PROJECT: 37 NOBLE AVENUE, PUNCHBOWL, NSW 2196
 DATE: 09.02.2024
 SCALE @ A1: AS SHOWN
 AUTHORISED: A.E.

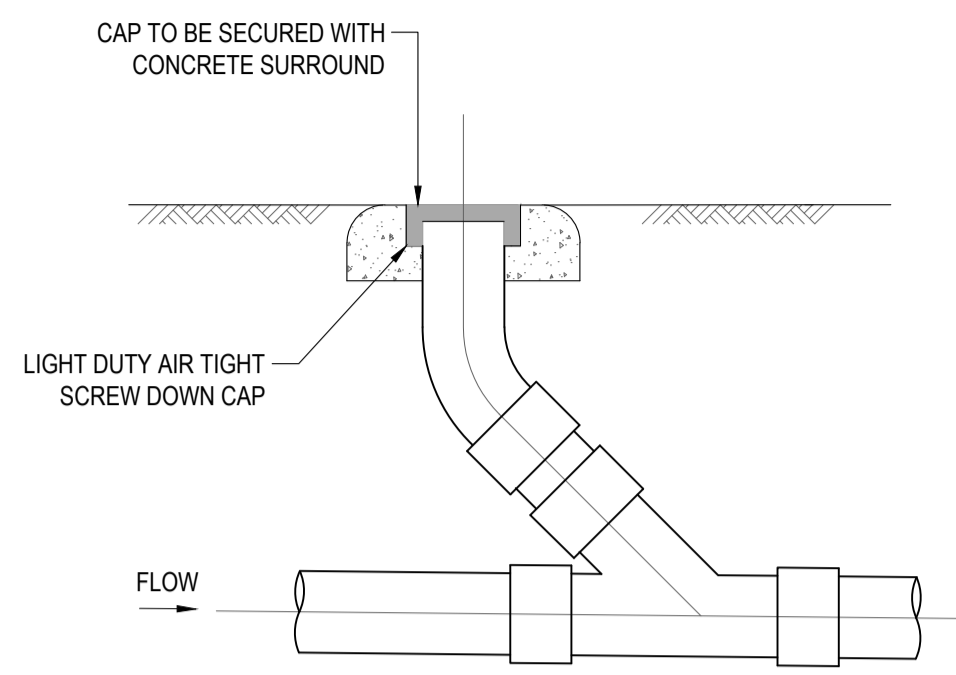
DRAWN: A.E.
 DESIGNED: A.E.
 DWG No: SW60

CHECKED: A.E.
 JOB No: D24026
 REV: A

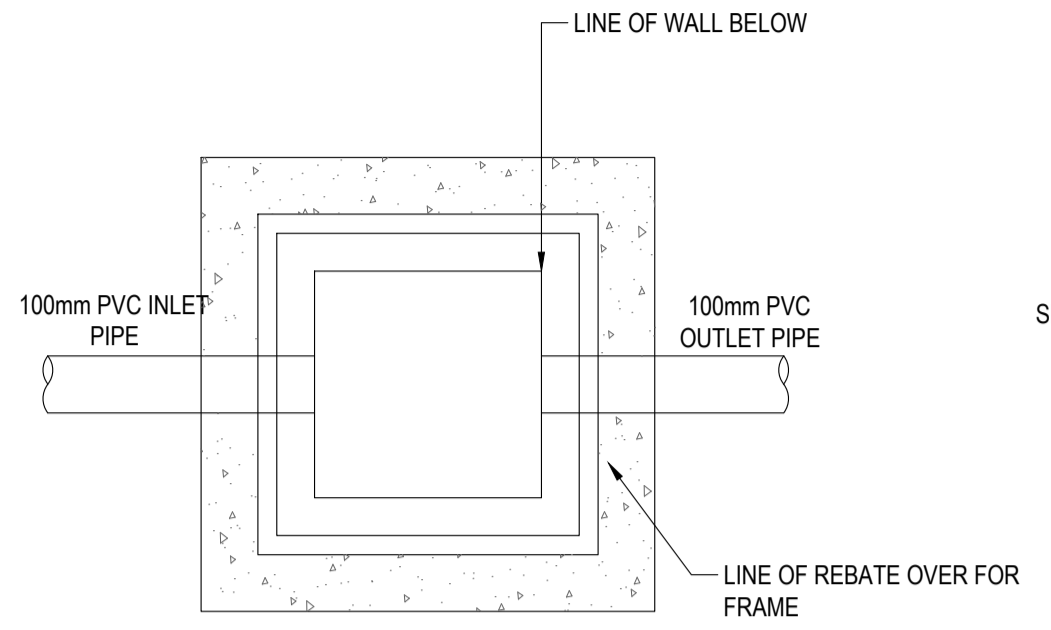
ISSUED FOR DA

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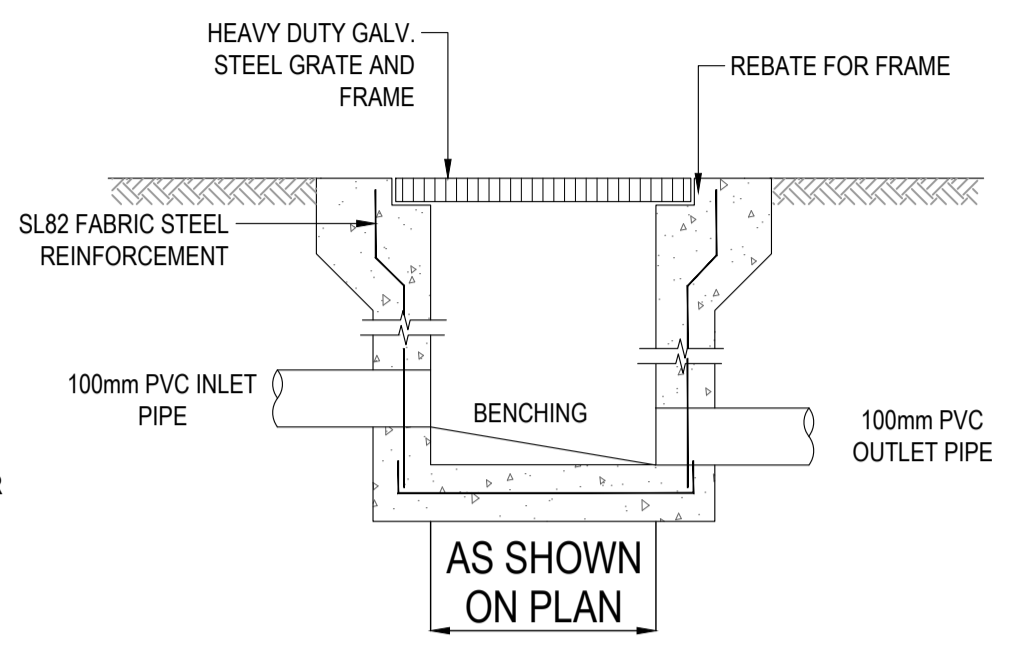
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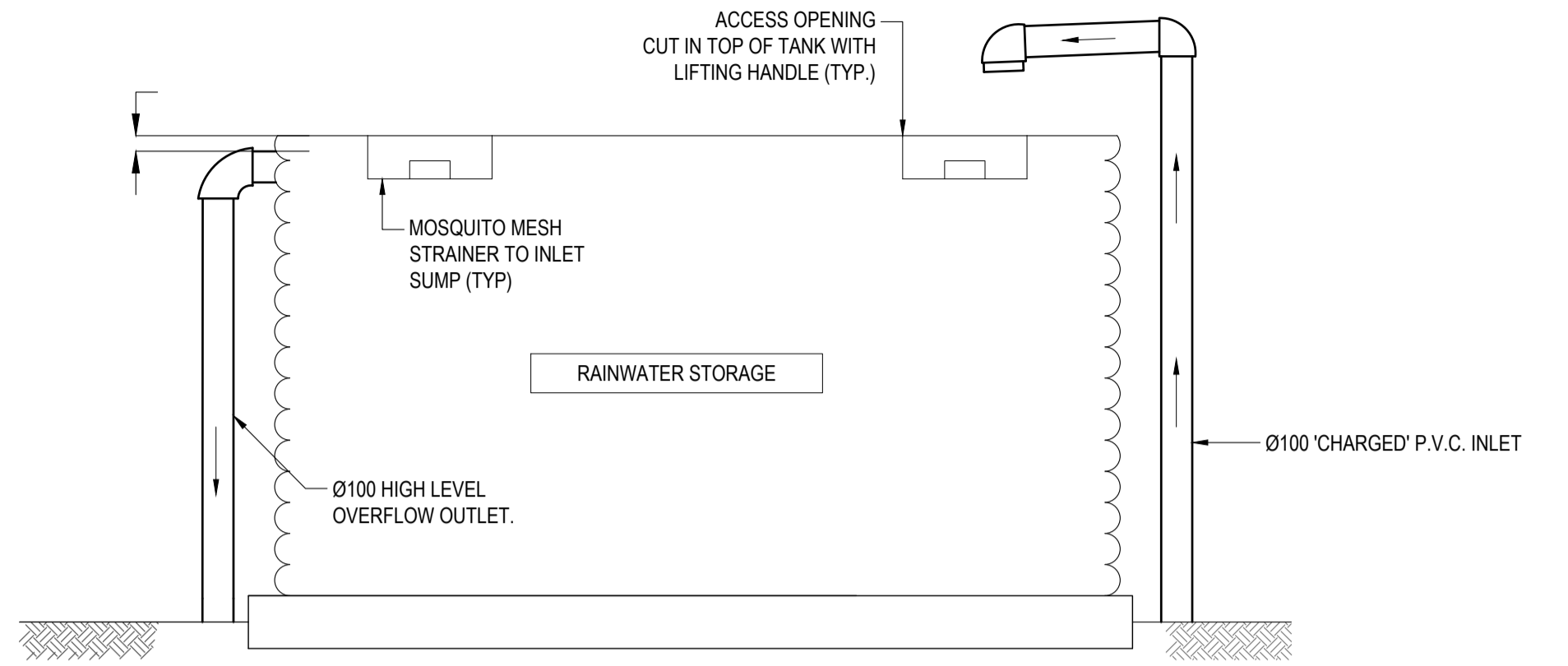
TYPICAL CLEANING EYE DETAIL
SCALE N.T.S.



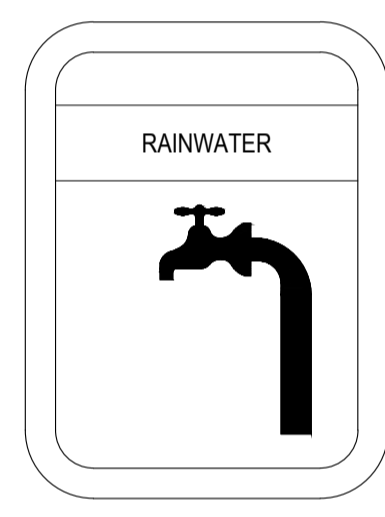
PLAN WITHOUT GRATE



SECTION

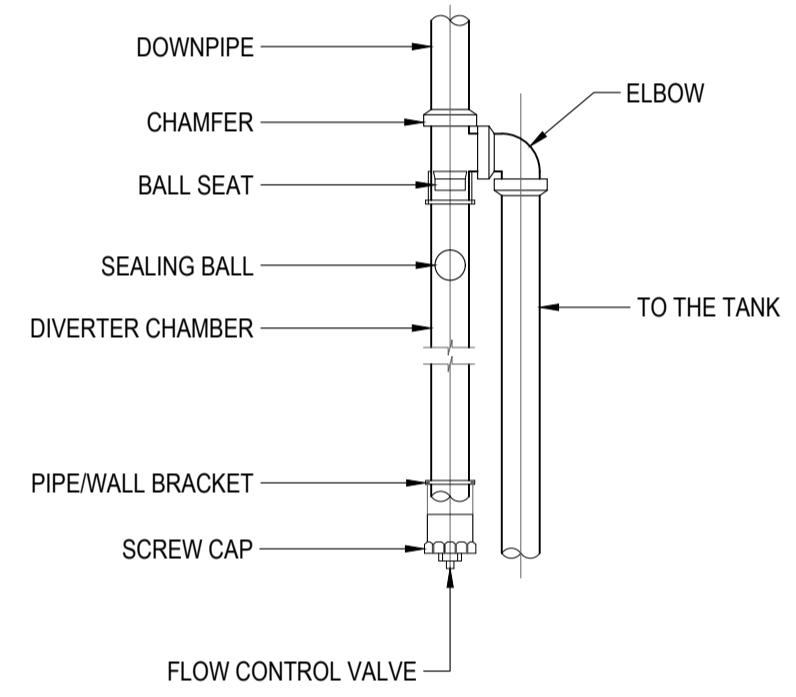


TYPICAL RAINWATER TANK DETAIL
SCALE N.T.S.

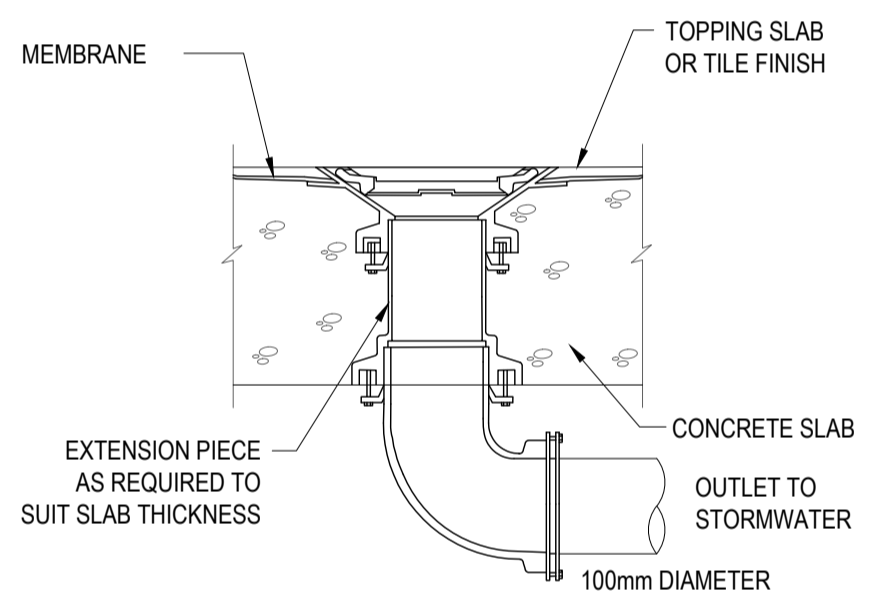


LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK
BACKGROUND

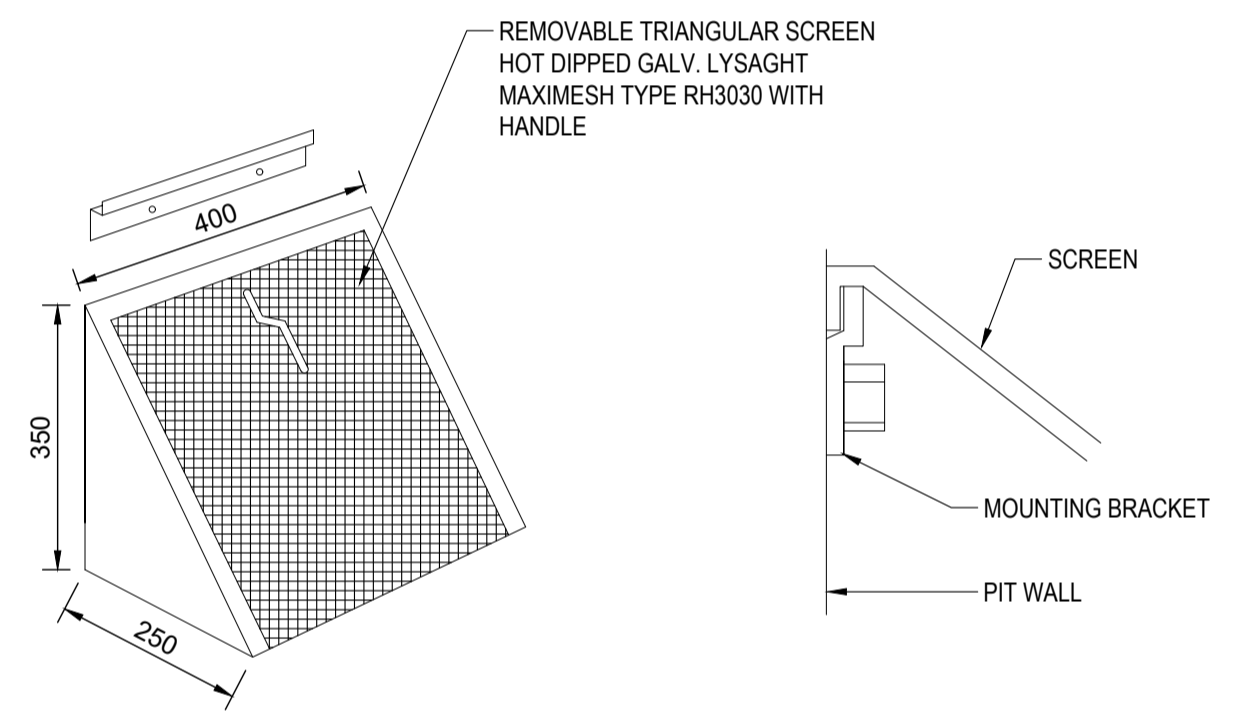
RAINWATER SIGN DETAIL
SCALE N.T.S.



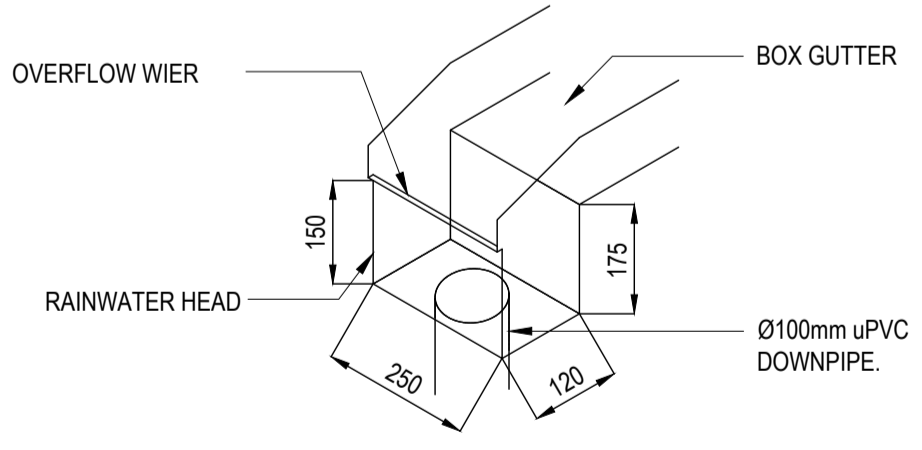
FIRST FLUSH DETAIL
SCALE N.T.S.



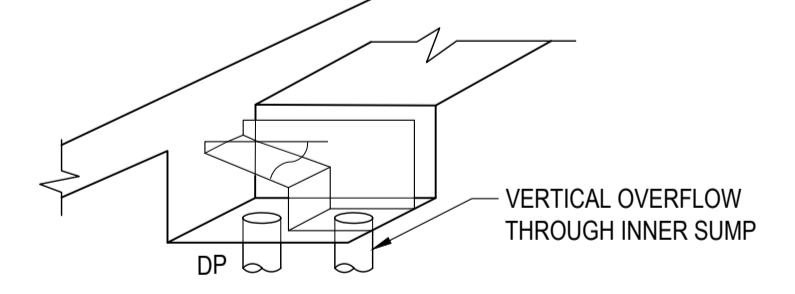
FLOOR WASTE OUTLET
NOT TO SCALE



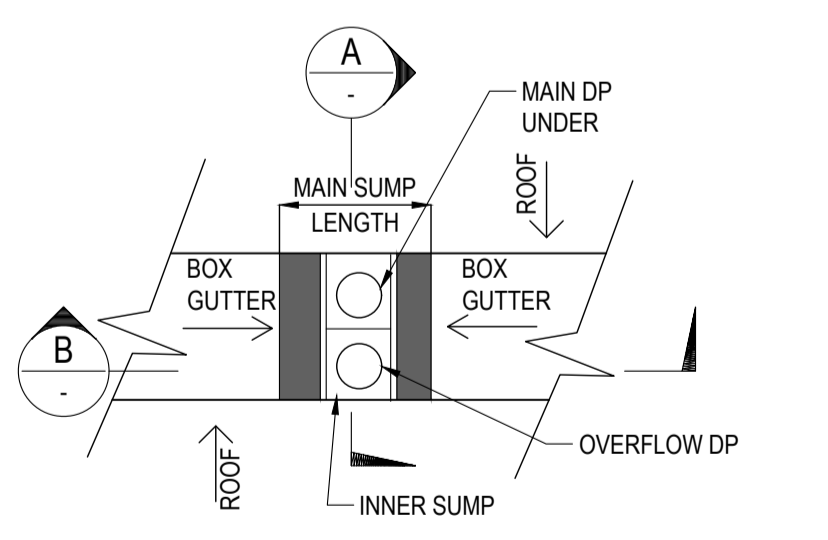
MULTI PURPOSE FILTER SCREEN
SCALE N.T.S.



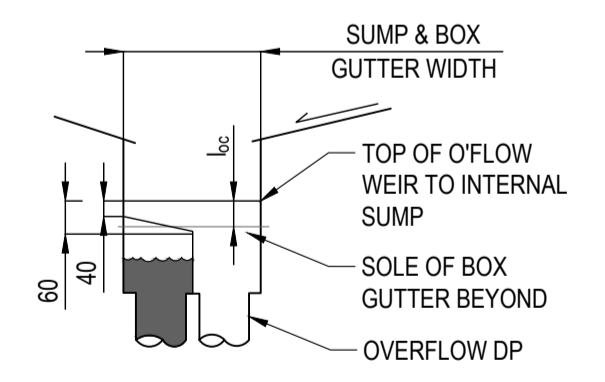
STANDARD RAINWATER HEAD SECTION
NOT TO SCALE



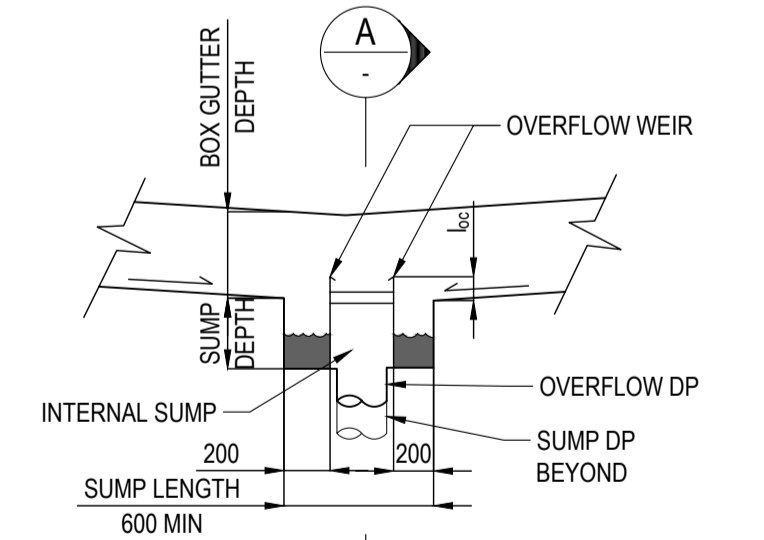
BOX GUTTER WITH VERTICAL OVERFLOW (OVERALL VIEW)
SCALE N.T.S.



BOX GUTTER WITH VERTICAL OVERFLOW (PLAN VIEW)
SCALE N.T.S.



SECTION A
1:20



SECTION B
1:20

No	AMENDMENT	ENG	DRAFT	DATE
A	ISSUED FOR DA	A.E.	A.E.	06.02.24

ae CONSULTING ENGINEERS
 P: 9037 0731
 E: info@aeconsulting.com.au
 W: www.aeconsulting.com.au

ARCHITECT
DAWSONVU
 po box 1152 huntleys hill nsw 2110
 www.dawsonvu.com.au
 info@dawsonvu.com.au
 troy@dawsonvu.com.au
 micha@dawsonvu.com.au
 0438 297 973
 0438 297 962

CLIENT

SHEET SUBJECT
STORMWATER SECTIONS & DETAILS
 SHEET 2

PROJECT: 37 NOBLE AVENUE, PUNCHBOWL, NSW 2196			
DATE	DRAWN	DESIGNED	CHECKED
09.02.2024	A.E.	A.E.	A.E.
SCALE @ A1	JOB No		
N.T.S.	D24026		
AUTHORISED	DWG No	REV	
A.E.	SW70	A	

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