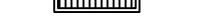


CONCEPT STORMWATER DRAWINGS FOR 3 & 4 LLANFOYST STREET, RANDWICK NSW 2031

SYMBOLS

RL	PIT SURFACE LEVEL
IL	INVERT LEVEL
TK	TOP OF KERB
B.O.W	BOTTOM OF WALL
T.O.W	TOP OF WALL
	STORMWATER DRAINAGE PIPE
	DOWNPIPE TO RAINWATER TANK
	OVERFLOW PIPE FROM RAINWATER TANK
	Ø100 SUBSOIL PIPE
	Ø100 SUBSOIL PIPE
	FLOOR WASTE 150X150
	FLOOR WASTE 150Ø
	RAINWATER OUTLET 300Ø
	PLANTER GRATE
•DP	DOWN PIPE
•CO	CLEAN OUT
•IO	INSPECTION OPENING
•VD	VERTICAL DROP
•VR	VERTICAL RISER
	CONCRETE COVER JUNCTION PIT
	GRATED INLET PIT
	WIDE GRATED DRAIN
	OVERLAND FLOW PATH
	CAST IN SLAB PIPE

NOTES

- ALL LINES ARE TO BE MIN. 100Ø UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 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.
- ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3 (CURRENT EDITION) AND COUNCIL SPECIFICATIONS.
- LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL AND ALL OTHER RELEVANT CONSULTANT'S PLANS.
- ALL RAINWATER TANKS TO BE FITTED WITH A FIRST FLUSH DEVICE TO PREVENT POTENTIAL CONTAMINANTS FROM ENTERING THE TANKS.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES
- PROVIDE EMERGENCY OVERFLOW TO ALL PLANTER BOX AND BALCONIES.
- ALL PITS WITH DEPTH MORE THAN 1M MUST HAVE IRON STEPS AND TO BE BENCHED AND STREAMLINED
- PROVIDE STORMWATER GRATE 200Wx200D AT THE BASE OF ALL MECHANICAL SHAFTS AND UNCOVERED STAIRS OR OPENINGS.
- ENSURE ALL DRAINAGE WORKS ARE AWAY FROM TREE ROOTS
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATION AND ARE NOT GUARANTEED COMPLETE NOR CORRECT. IT IS THE CLIENT AND CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL PRIOR TO CONSTRUCTION.
- ALL VARIATIONS TO THE WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY SMART STRUCTURES AUSTRALIA PRIOR TO COMMENCEMENT OF WORKS.
- THE MINIMUM SIZES OF THE STORMWATER DRAINS SHALL NOT BE LESS THAN DN90 FOR CLASS 1 BUILDINGS AND DN100 FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY

AS 3500.3- TABLE 8.2
SIZE OF MINIMUM INTERNAL DIMENSIONS
FOR STORMWATER AND INLET PITS

DEPTH OF INVERT OF OUTLET	MINIMUM INTERNAL DIMENSIONS (mm)		
	RECTANGULAR WIDTH	LENGTH	CIRCULAR DIAMETER
≤600	450	450	600
>600 ≤900	600	600	900
>900 ≤1200	600	900	1000
>1200	900	900	1000

DRAWING LIST	
DRAWING NUMBER	DRAWING NAME

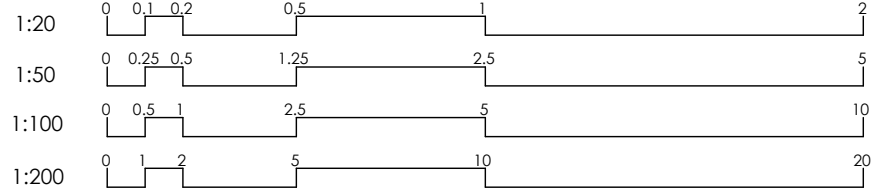
D00	COVER SHEET, LEGEND & DRAWING SCHEDULE
D01	BASEMENT 2 STORMWATER DRAINAGE PLAN
D01A	BASEMENT1 STORMWATER DRAINAGE PLAN
D02	GROUND FLOOR STORMWATER DRAINAGE PLAN
D06	ROOF STORMWATER DRAINAGE PLAN
D07	PRE AND POST CATCHMENT PLANS
D10	STORMWATER DRAINAGE SECTIONS AND DETAILS SHEET 1
D11	STORMWATER DRAINAGE SECTIONS AND DETAILS SHEET 2
D15	EROSION AND SEDIMENT CONTROL PLAN



IMPORTANT:
CONTRACTOR TO OBTAIN CURRENT SET OF
"DIAL BEFORE YOU DIG" PLANS ON SITE ALL
TIMES AND PRIOR TO CONSTRUCTION WORKS

B	ISSUED FOR D.A.	30.05.23	F.E.	K.E.	
A	ISSUED FOR D.A.	06.09.22	J.E.	K.E.	
No.	Description	Date	Issued by	Checked by	

SCALE BARS



CLIENT:

PARSEH LLANFOYST LTD

ARCHITECT:

OROSI



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DRAWING TITLE

**COVER SHEET, LEGEND &
DRAWING SCHEDULE**

SHEET NO.

D00

REV.

B

SCALE @ A1

NTS

DESIGNED:

K.E.

DRAWN:

J.E.

AUTHORISED:

K.E.

PROJECT

**3 & 4 LLANFOYST STREET, RANDWICK
NSW 2031**

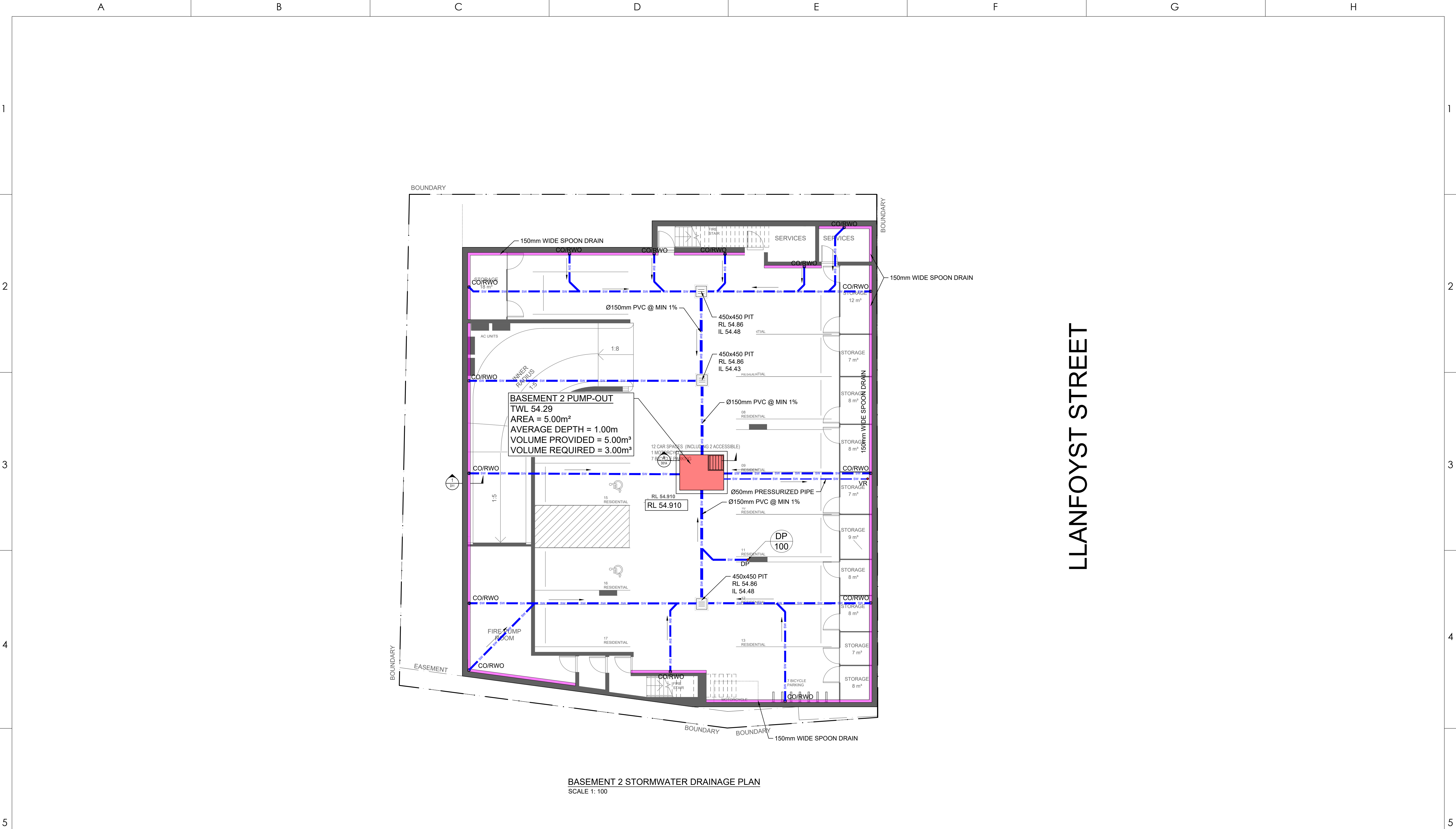
NORTH

PROJECT NO.

200462

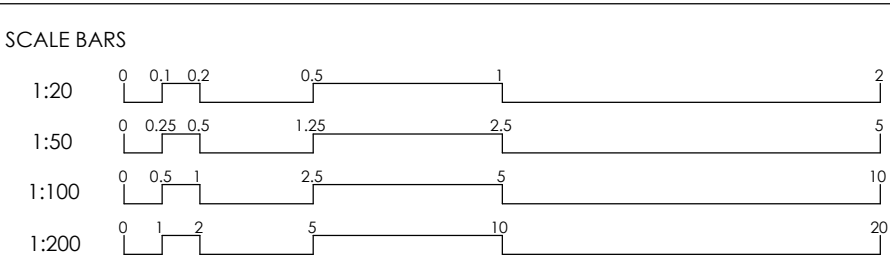
PROJECT START DATE:

SEPTEMBER 2022



LLANFOYST STREET

No.	Description	Date	Issued by	Checked by
G	ISSUED FOR D.A.	31.01.24	F.E.	K.E.
F	ISSUED FOR D.A.	13.10.23	F.E.	K.E.
E	ISSUED FOR D.A.	13.07.23	F.E.	K.E.
D	ISSUED FOR D.A.	19.06.23	F.E.	K.E.
C	ISSUED FOR D.A.	15.06.23	F.E.	K.E.
B	ISSUED FOR D.A.	31.05.23	F.E.	K.E.
A	ISSUED FOR D.A.	06.09.22	J.E.	K.E.

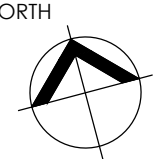


CLIENT:	PARSEH LLANFOYST LTD
ARCHITECT:	OROSI



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DRAWING TITLE BASEMENT 2 STORMWATER DRAINAGE PLAN			PROJECT 3 & 4 LLANFOYST STREET, RANDWICK NSW 2031	
SHEET NO. D01	REV. G	SCALE @ A1 AS SHOWN	NORTH 	PROJECT NO. 200462
DESIGNED: K.E.	DRAWN: J.E.	AUTHORISED: K.E.	PROJECT START DATE: SEPTEMBER 2022	

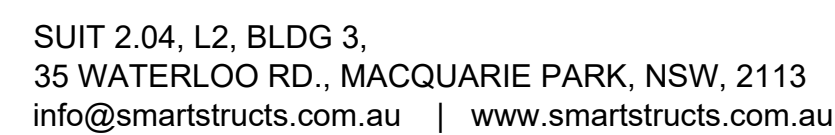
LLANFOYST STREET

INDICATIVE LAYOUT
OF DRIVEWAY; REFER
TO CIVIL PLANS FOR
DETAILS

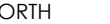
– TO CONNECT TO THE
COUNCIL'S EXISTING PIT
RL 57.27
IL 56.62

SCALE BARS

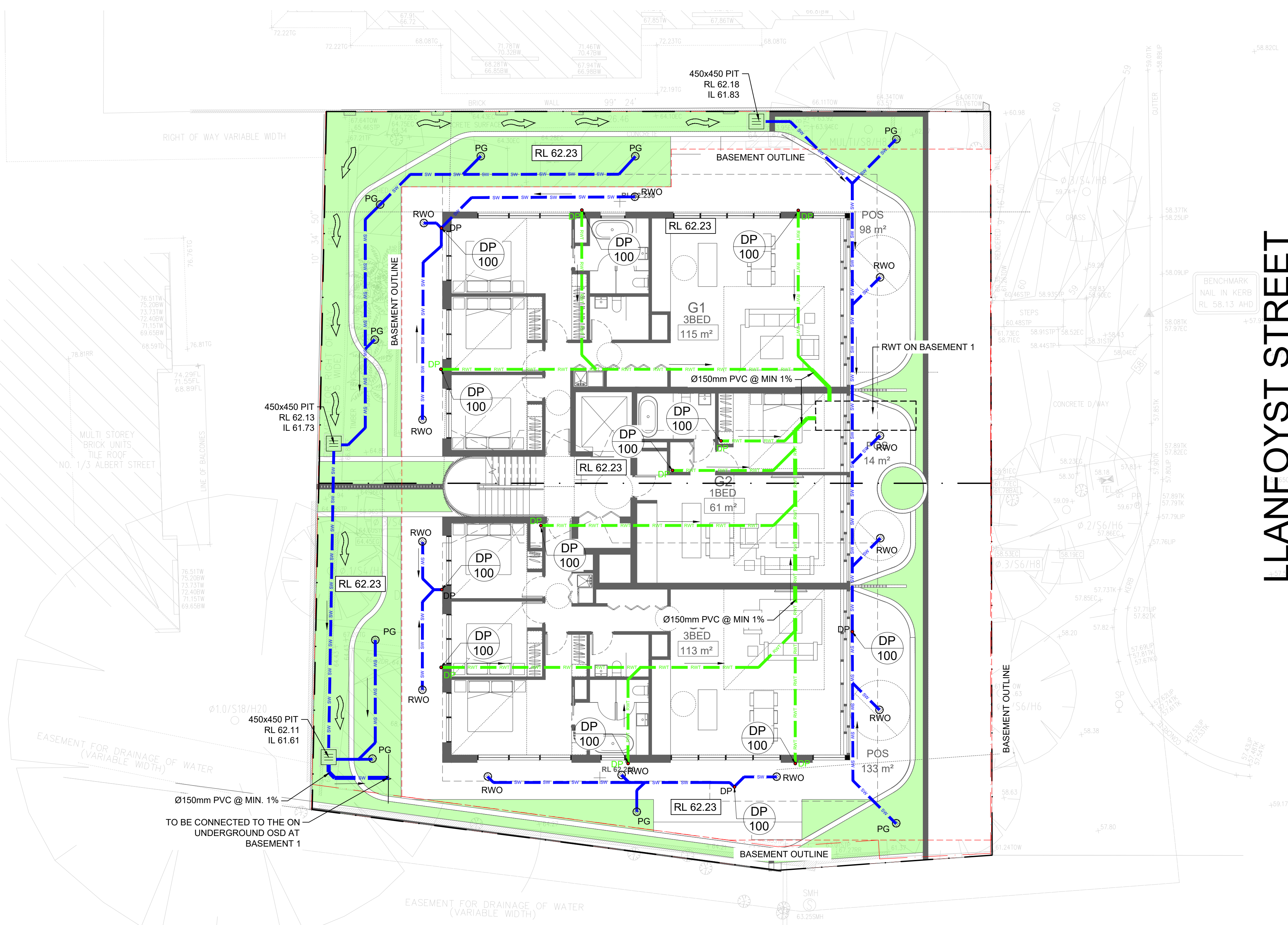
The figure shows four horizontal scale bars, each corresponding to a different scale. The scales are listed on the left: 1:20, 1:50, 1:100, and 1:200. Each scale bar is a horizontal line with vertical tick marks and numerical labels. The labels are placed above the line. For the 1:20 scale, the labels are 0, 0.1, 0.2, 0.5, 1, and 2. For the 1:50 scale, the labels are 0, 0.25, 0.5, 1.25, 2.5, and 5. For the 1:100 scale, the labels are 0, 0.5, 1, 2.5, 5, and 10. For the 1:200 scale, the labels are 0, 1, 2, 5, 10, and 20. The bars are arranged vertically, with the 1:20 scale at the top and the 1:200 scale at the bottom.

ARCHITECT:
OROSI

SHEET NO. D01A	REV. H	SCALE @ A1 AS SHOWN
DESIGNED: K.E.	DRAWN: J.E.	AUTHORISED: K.E.

NORTH 	PROJECT NO. 200462
	PROJECT START DATE: SEPTEMBER 2022

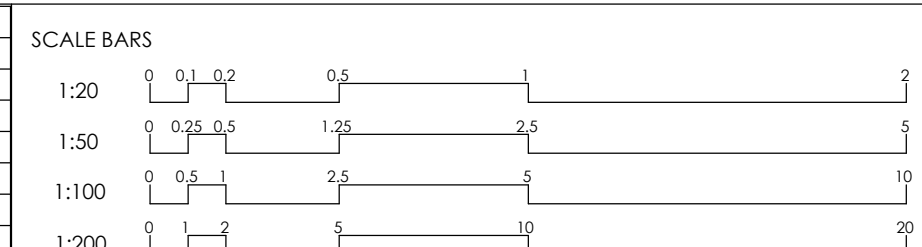
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G	ISSUED FOR D.A.		19.10.23	F.E.	K.E.
F	ISSUED FOR D.A.		13.10.23	F.E.	K.E.
E	ISSUED FOR D.A.		13.07.23	F.E.	K.E.
D	ISSUED FOR D.A.		19.06.23	F.E.	K.E.
C	ISSUED FOR D.A.		15.06.23	F.E.	K.E.
B	ISSUED FOR D.A.		01.06.23	F.E.	K.E.
A	ISSUED FOR D.A.		31.05.23	J.E.	K.E.
No.	Description	Date	Issued by	Checked by	



LLANFOYST STREET

GROUND FLOOR STORMWATER DRAINAGE PLAN
SCALE 1: 100

No.	Description	Date	Issued by	Checked by
H	ISSUED FOR D.A.	31.01.24	F.E.	K.E.
G	ISSUED FOR D.A.	19.10.23	F.E.	K.E.
F	ISSUED FOR D.A.	13.10.23	F.E.	K.E.
E	ISSUED FOR D.A.	13.07.23	F.E.	K.E.
D	ISSUED FOR D.A.	19.06.23	F.E.	K.E.
C	ISSUED FOR D.A.	15.06.23	F.E.	K.E.
B	ISSUED FOR D.A.	31.05.23	F.E.	K.E.
A	ISSUED FOR D.A.	06.09.22	J.E.	K.E.

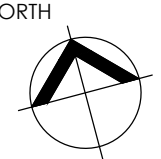


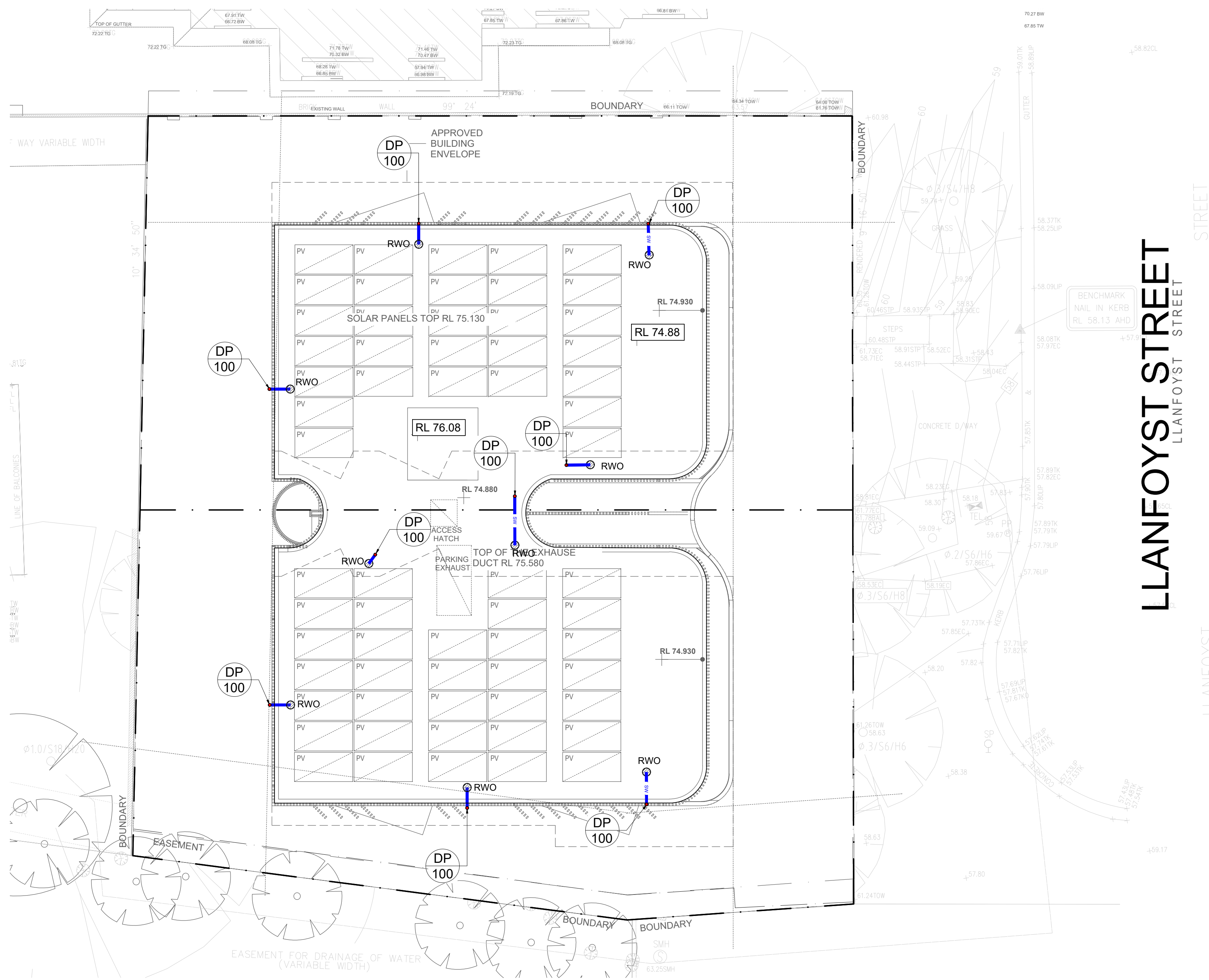
CLIENT:
PARSEH LLANFOYST LTD

ARCHITECT:
OROSI

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AUSTRALIA**

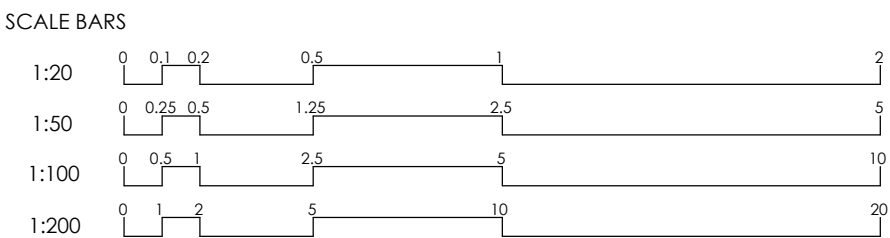
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35 WATERLOO RD., MACQUARIE PARK, NSW, 2113
info@smartstrucs.com.au | www.smartstrucs.com.au

DRAWING TITLE			PROJECT	
GROUND FLOOR STORMWATER DRAINAGE PLAN			3 & 4 LLANFOYST STREET, RANDWICK NSW 2031	
SHEET NO. D02	REV. H	SCALE @ A1 AS SHOWN	NORTH 	PROJECT NO. 200462
DESIGNED: K.E.	DRAWN: J.E.	AUTHORISED: K.E.	PROJECT START DATE: SEPTEMBER 2022	



ROOF STORMWATER DRAINAGE PLAN
SCALE 1: 100

F	ISSUED FOR D.A.	31.01.24	F.E.	K.E.	
E	ISSUED FOR D.A.	13.10.23	F.E.	K.E.	
D	ISSUED FOR D.A.	13.07.23	F.E.	K.E.	
C	ISSUED FOR D.A.	19.06.23	F.E.	K.E.	
B	ISSUED FOR D.A.	30.05.23	F.E.	K.E.	
A	ISSUED FOR D.A.	06.09.22	J.E.	K.E.	
No.	Description	Date	Issued by	Checked by	



CLIENT:
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info@smartstrucs.com.au | www.smartstrucs.com.au

DRAWING TITLE
ROOF STORMWATER DRAINAGE PLAN

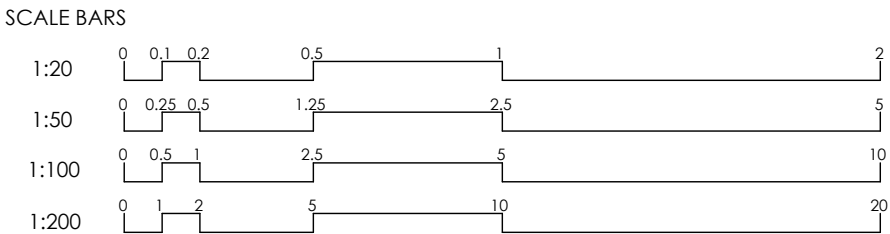
SHEET NO. D06	REV. F	SCALE @ A1 AS SHOWN
DESIGNED: K.E.	DRAWN: J.E.	AUTHORISED: K.E.

PROJECT
3 & 4 LLANFOYST STREET, RANDWICK
NSW 2031

NORTH 	PROJECT NO. 200462
	PROJECT START DATE: SEPTEMBER 2022



E	ISSUED FOR D.A.	13.10.23	F.E.	K.E.	
D	ISSUED FOR D.A.	13.07.23	F.E.	K.E.	
C	ISSUED FOR D.A.	15.06.23	F.E.	K.E.	
B	ISSUED FOR D.A.	30.05.23	J.E.	K.E.	
A	ISSUED FOR D.A.	06.09.22	J.E.	K.E.	
No.	Description	Date	Issued by	Checked by	



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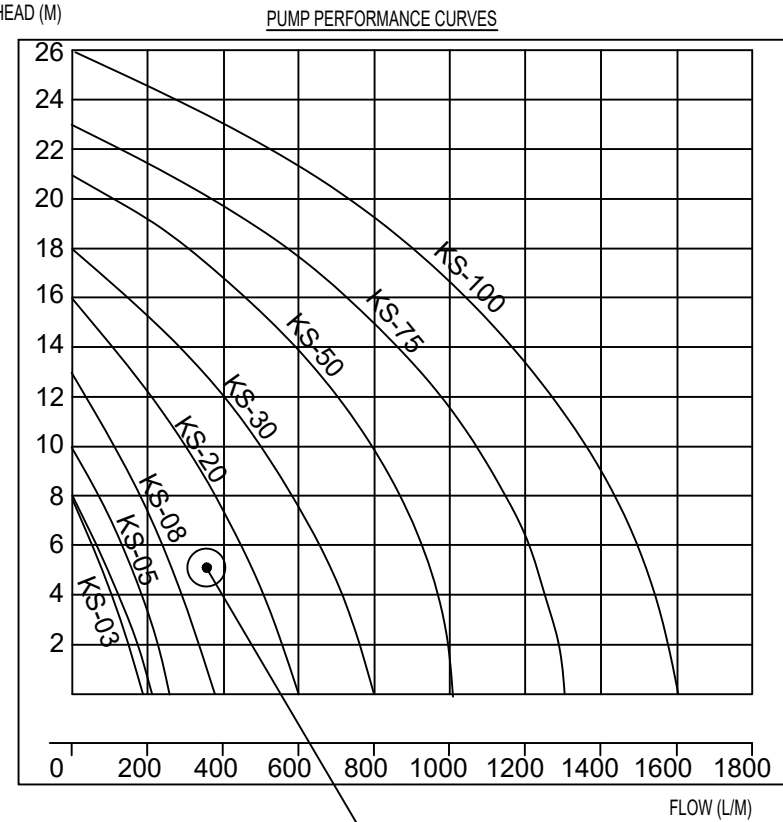
DRAWING TITLE PRE AND POST DEVELOPMENT CATCHMENT PLANS		
SHEET NO. D07	REV. E	SCALE @ A1 AS SHOWN
DESIGNED: K.E.	DRAWN: J.E.	AUTHORISED: K.E.

PROJECT 3 & 4 LLANFOYST STREET, RANDWICK NSW 2031	
NORTH 	PROJECT NO. 200462
PROJECT START DATE: SEPTEMBER 2022	

PUMP SPECIFICATIONS
STANDARD PUMP-OUT NOTES

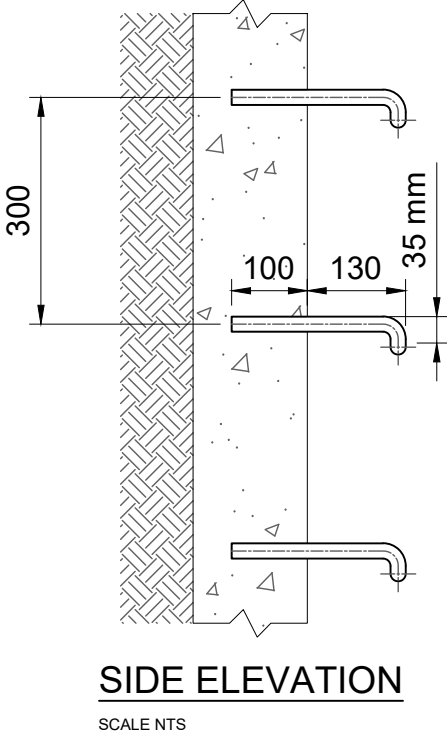
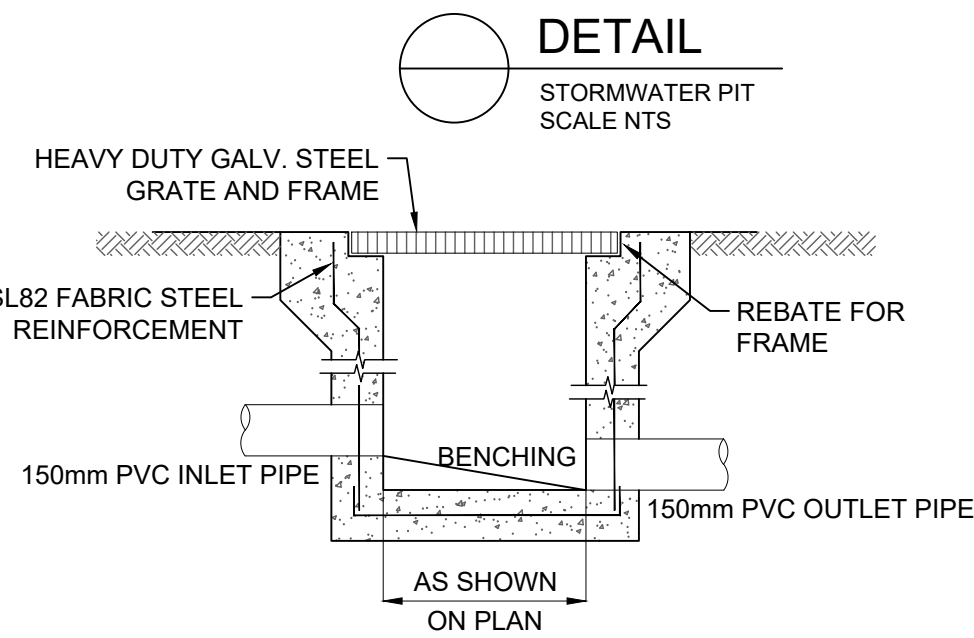
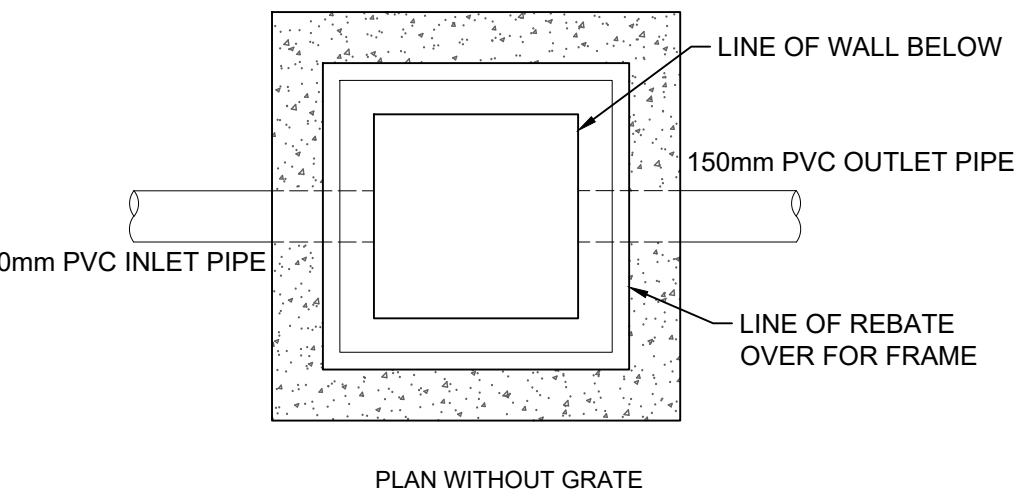
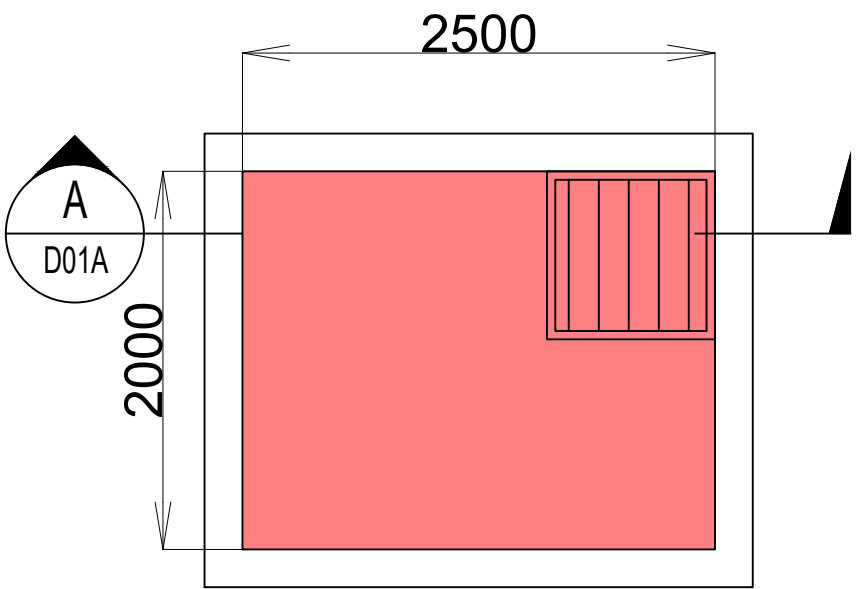
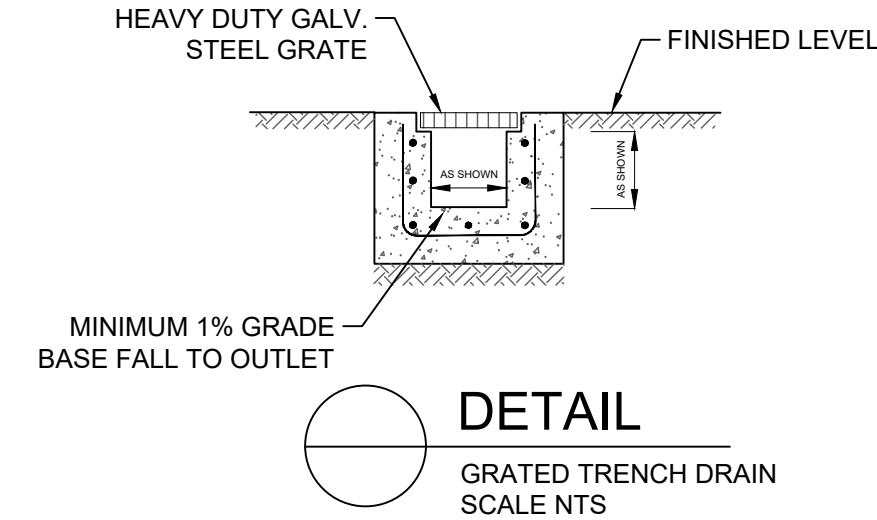
THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -

1. 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 PUMP.
2. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY THE PUMP WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
3. A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD ACTIVATE THE ALARM.
4. 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.

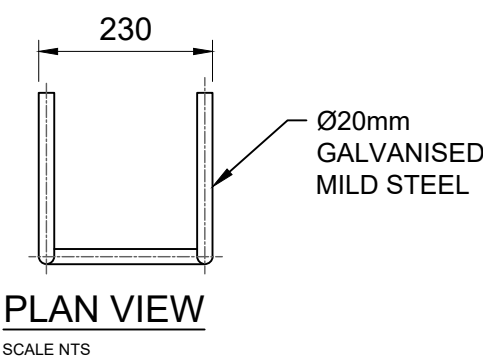
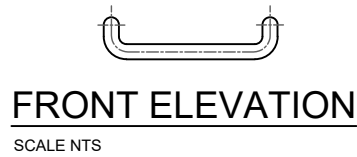


PUMP WELL DETAILS
AREA DRAINING TO SUMP = 14.23 m²
VOLUME BASED ON 100 YEAR ARI 2 HOUR INTENSITY
INTENSITY = 50.0mm/hr
MIN. VOLUME REQUIRED BY AS 3500= 3.00 m³
STORAGE PROVIDED 2.0x2.5x1.0m= 5.00 m³
MIN. PUMP OUT RATE REQUIRED BY AS 3500.3 = 10 L/sec
DUAL KS-08 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP 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 5.17m HEAD

Type	Output		Outlet		Rated		Maximum		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



PUMP OUT PIT PLAN VIEW
SCALE NTS



STEP IRON DETAIL
SCALE NTS
NOTE: INSTALL WHERE PITS ARE DEEPER THAN 900

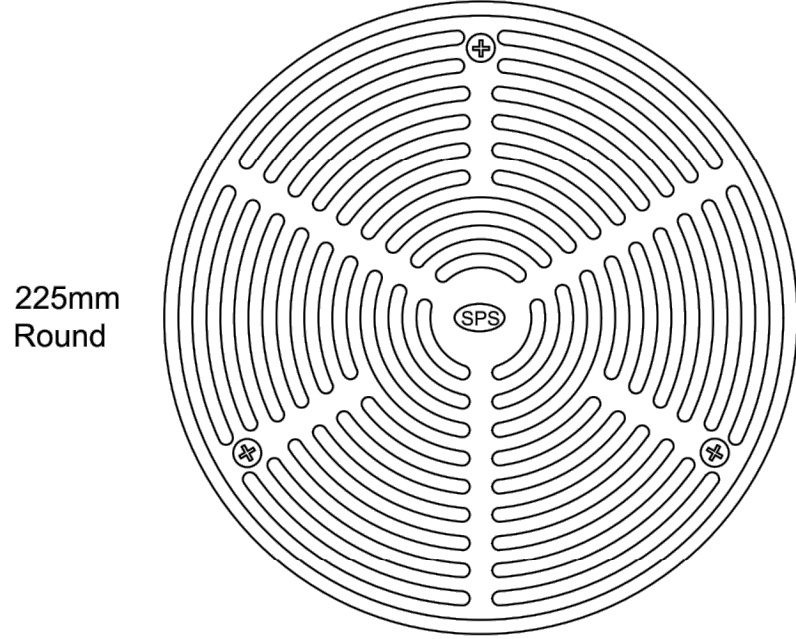
SPS 225mm Round Vari-Level Vertical Drain

150mm Outlet
or 100mm Outlet

Specification code:
R225N/C150 (nickel-bronze grate, CI lower body) *special order*
R225S4/C150 (Polished 304SS grate, CI lower body) *special order*
R225S/C150 (Satin 316SS grate, CI lower body)
For a 100mm outlet, use suffix "C100" not "C150"

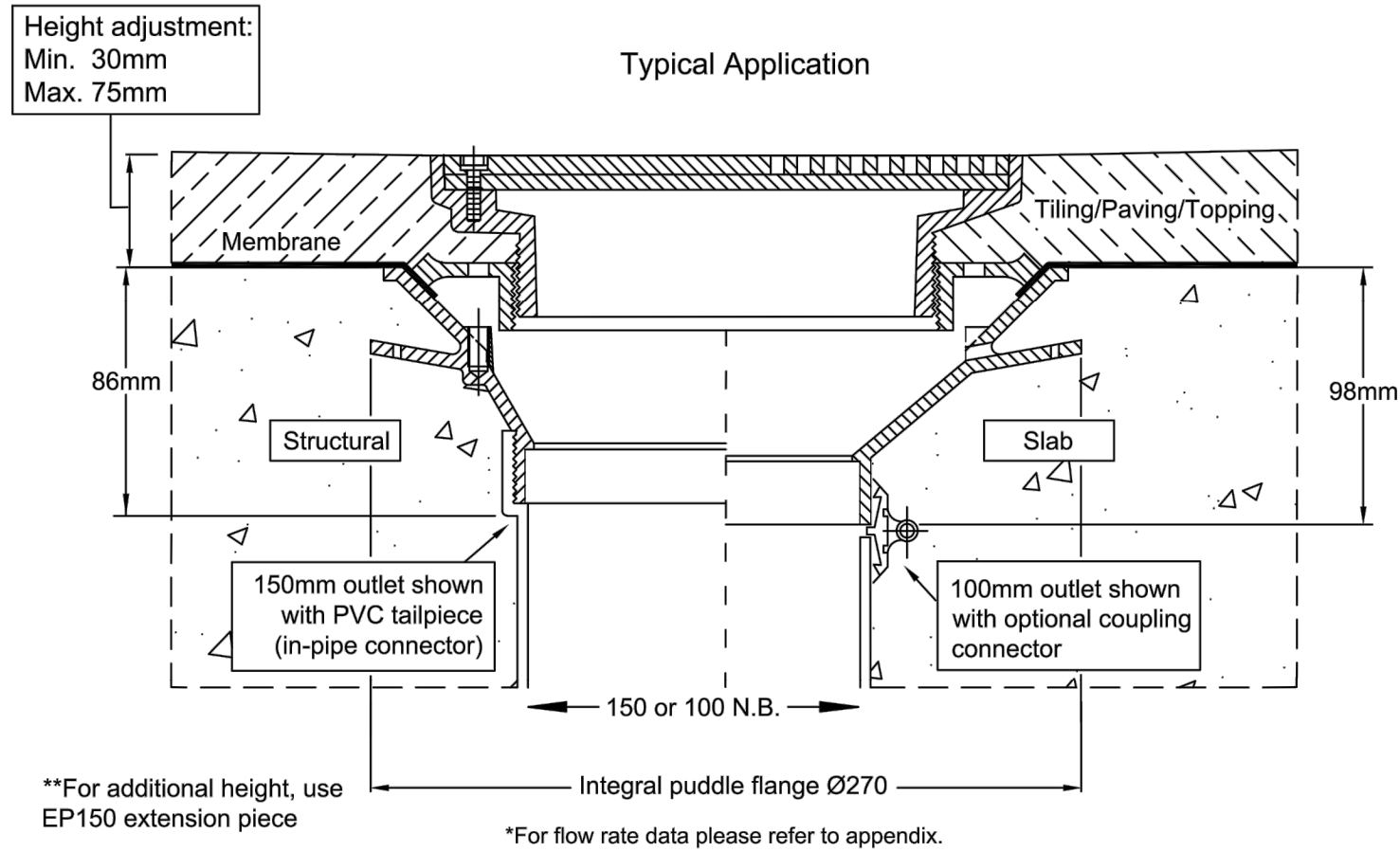
Load Class C per AS3996-2006

High-heel friendly pattern (5.5mm gaps)



- Height-adjustable high heel-friendly grate assembly.
- Grate assembly available 316 stainless steel. Polished 304SS and nickel-bronze available only by special order.
- 150mm or 100mm Trulfo CI lower body with 150mm BSP reversible clamp collar.

Typical Application



Speciality Plumbing Supplies Pty Ltd

Tel: (02) 9417 1900 Fax: (02) 9417 0108 E-mail: info@spsdraains.com.au

3.17

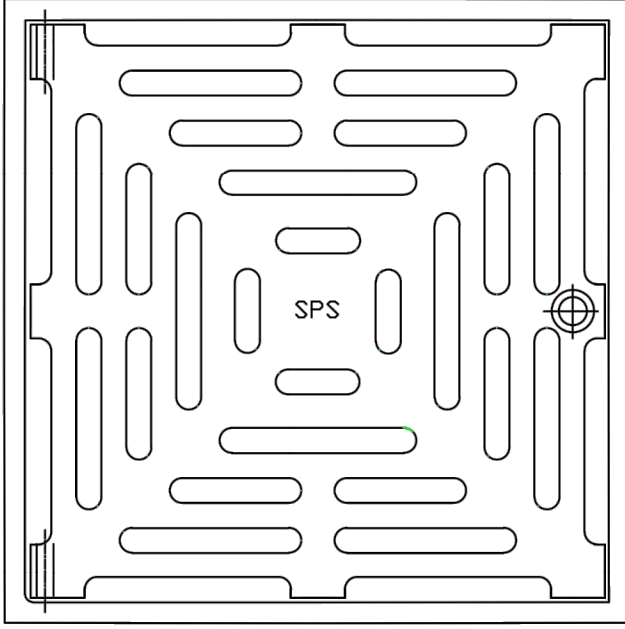
SPS 150mm Square Vari-Level Vertical Drain

100mm Outlet

Specification codes:
Q150G/C (bronze grate, CI lower body - non-stock option)
Q150N/C (nickel bronze grate, CI lower body)
Q150S4/C (polished 304 stainless steel, CI lower body)
Q150S/C (satin 316 stainless steel grate, CI lower body)

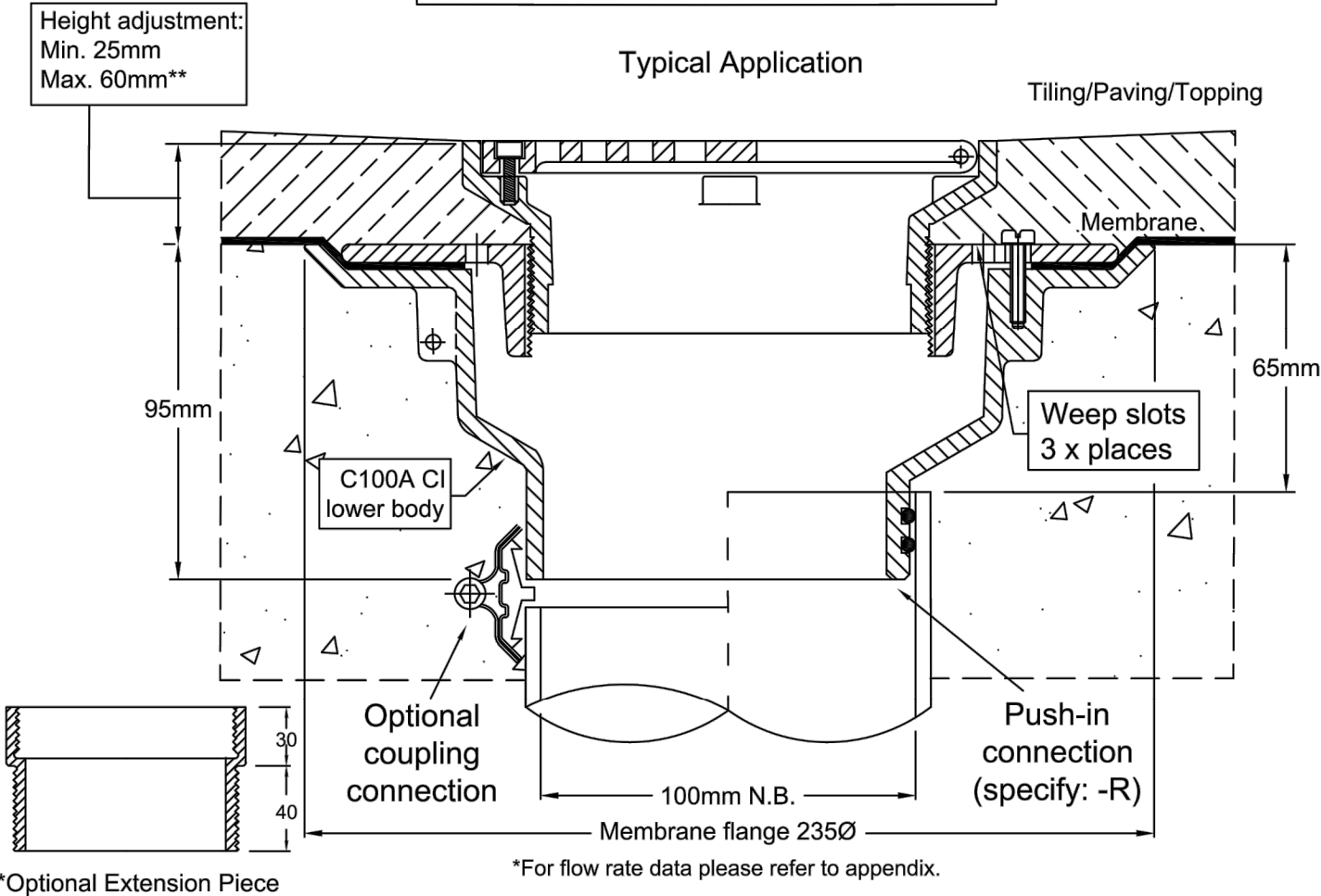
- Height-adjustable hinged grate assembly.
- Available in polished 304 & satin 316 stainless steel. Bronze and nickel-bronze available by special order only.
- C100A CI "deluxe" lower body with reversible clamp collar.

High-heel friendly pattern (6mm gaps)



150mm Square

Typical Application



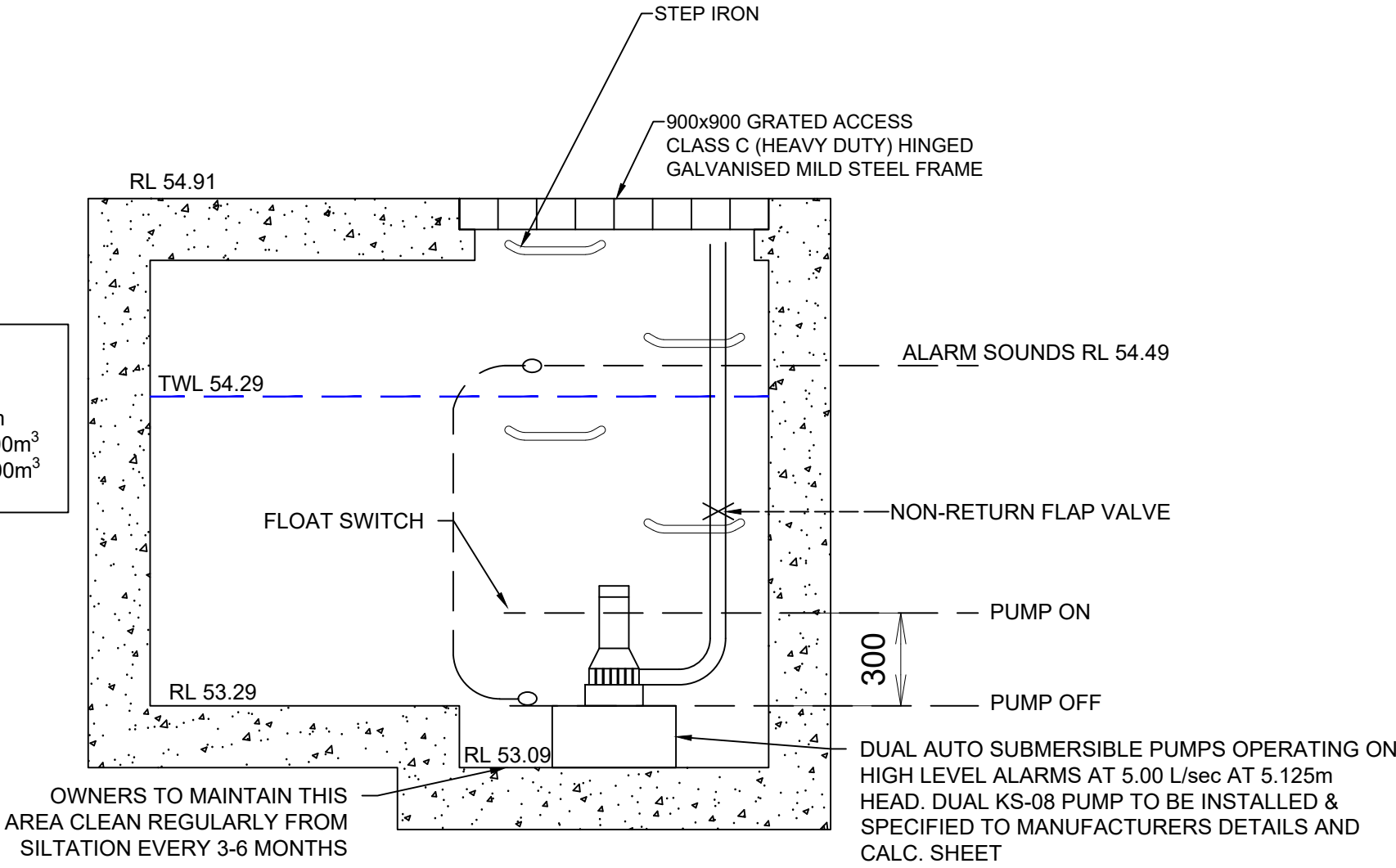
Speciality Plumbing Supplies Pty Ltd

Tel: (02) 9417 1900 Fax: (02) 9417 0108 E-mail: info@spsdraains.com.au

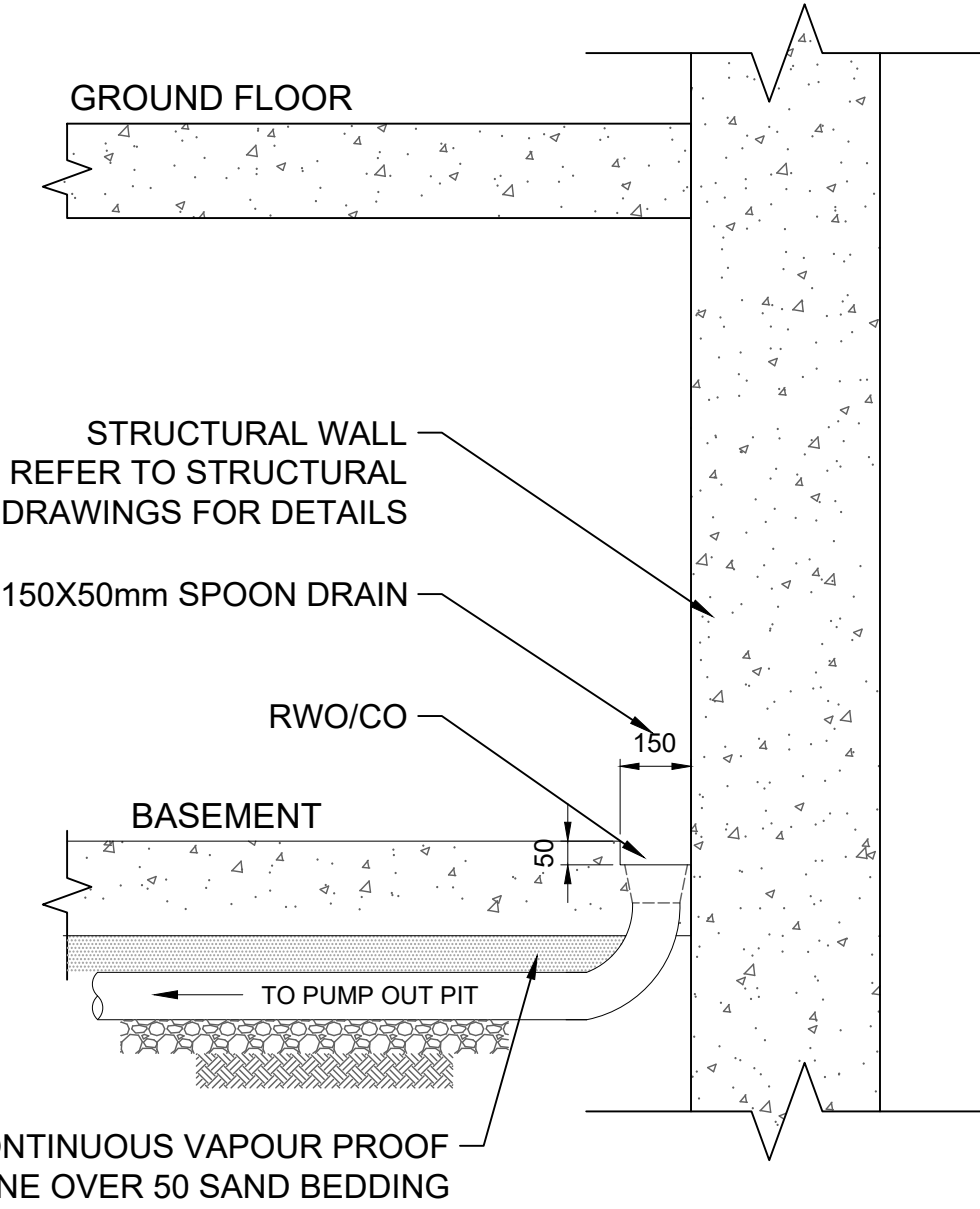
3.10

RAINWATER OUTLET SAMPLES

SCALE NTS



SECTION THROUGH PUMP OUT PIT
SCALE NTS

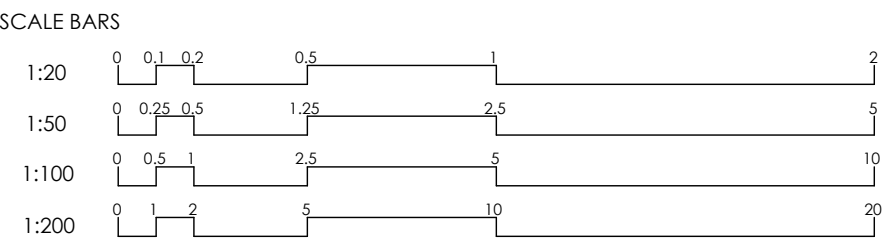


TYPICAL SPOON DRAIN DETAIL

SCALE NTS

1
D01

No.	Description	Date	Issued by	Checked by
F	ISSUED FOR D.A.	13.10.23	F.E.	K.E.
E	ISSUED FOR D.A.	13.07.23	F.E.	K.E.
D	ISSUED FOR D.A.	15.06.23	F.E.	K.E.
C	ISSUED FOR D.A.	01.06.23	F.E.	K.E.
B	ISSUED FOR D.A.	31.05.23	F.E.	K.E.
A	ISSUED FOR D.A.	06.09.22	J.E.	K.E.



CLIENT:

PARSEH LLANFOYST LTD

ARCHITECT:

OROSI



SUIT 2.04, L2, BLDG 3,
35 WATERLOO RD., MACQUARIE PARK, NSW, 2113
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DRAWING TITLE
**STORMWATER DRAINAGE SECTIONS
AND DETAILS SHEET 2**

SHEET NO.	REV.	SCALE @ A1
D11	F	NTS
DESIGNED:	DRAWN:	AUTHORISED:
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PROJECT
3 & 4 LLANFOYST STREET, RANDWICK
NSW 2031

NORTH	PROJECT NO.
	200462
	PROJECT START DATE:
	SEPTEMBER 2022

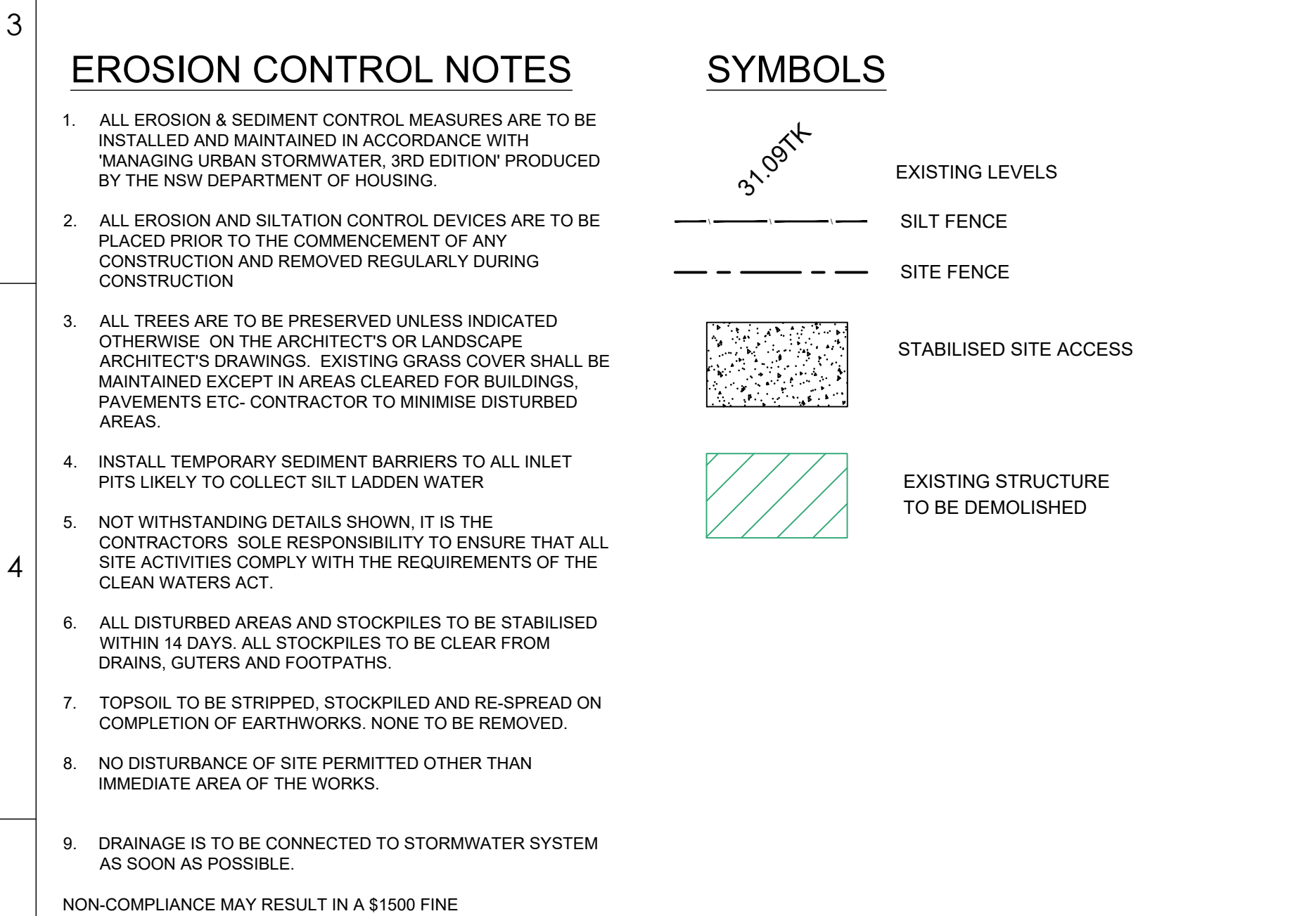


Diagram illustrating the typical detail of a filtration unit, showing the flow path and components:

- Flow Path:** Water flows from the **FROM PUMP FROM SEDIMENTATION POND** through the **GEO-TECH STYLE FABRIC** into the **FILTRATION TANK**. The water then passes through the **INLET** into the **HOLDING TANK** and exits through the **OUTLET**.
- Filtration Tank Layers:**
 - 500 mm OF HAY BALES** (Top layer)
 - 200 mm OF 20mm AGGREGATE** (Middle layer)
 - 600 mm OF 10MM AGGREGATE** (Bottom layer)
- Dimensions:**
 - Filtration Tank:** 80, 100, 900 (horizontal dimensions); 800 (vertical dimension for the holding tank section).
 - Holding Tank:** 800, 100 (horizontal dimensions); 800 (vertical dimension).
- Labels:** **FILTRATION TANK**, **GEO-TECH STYLE FABRIC**, **INLET**, **OUTLET**, **HOLDING TANK**, **EARTH**.

NOTE: HAY TO BE CHANGED EVERY DAY
GEO-TECH, SAND, AND BLUE METAL, TO BE CHANGED WEEKLY

TYPICAL DETAIL OF FILTRATION UNIT

[illegible]