A1

PROPOSED RESIDENTIAL DEVELOPMENT
71 ALBERT STREET, WERRINGTON
STORMWATER CONCEPT DESIGN

LOCALITY PLAN

NOT TO SCALE

COPYRIGHT OF SIXMAP, VERSION

DRAWINGS LIST			
SHEET No.	DWG No.	TITLE	REV
1	SW100	COVER SHEET	A
2	SW200	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 1 OF 2	A
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 2 OF 2	A
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	A
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET	A
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A
7	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	A

SGC

PREPARED BY:

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Email: office@sgce.com.au
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ARCHITECT:

obrien design+drafting

CLIENT :

CAZ BUILD

SGC Reference Number: 202110155

Drawing Number: SW100

Revision Number: A

A1

DATE PLOTTED: 14 September 2021 3:55 PM BY : USER

DESIGN NOTES:

THIS SITE IS A PROPOSED MULTI-DWELLING DEVELOPMENT. THE SUBJECT SITE IS LOCATED WITHIN PENRITH CITY COUNCIL.

SITE AREA=2322m².

OSD IS NOT REQUIRED AS THIS SITE IS LOCATED IN OSD NON-MANDATORY AREA.

WSUD IS REQUIRED ACCORDING TO WATER SENSITIVE URBAN DESIGN (WSUD) POLICY DECEMBER 2013 TABLE1 ON PAGE7

SW QUALITY TARGET: WSUD TECHNICAL GUIDELINES 2020 PAGE30
TSS 85%
TP 60%
TN 45%
GP 90%

1500L RAINWATER IS PROVIDED FOR EACH UNIT IN ACCORDANCE WITH BASIX REQUIREMENT.

SERVICES ON THIS DRAWING ARE SHOWN BELOW SLAB U.N.O

DENOTES 1500L RAINWATER TANK (TYP.)
680mm(W)x2070mm(H)x1460(L)
AVAILABLE AT RAINWATERTANKDIRECT OR APPROVED EQUAVALENT

EXISTING TREE TO BE REMOVED

EXCAVATION NEAR TREE TO BE RETAINED TO BE HAND DUG OR DONE VIA AIR SPADE. TPZ & SRZ TO BE OBSERVED AS PER ARBORIT'S SPECIFICATIONS

TREE TO BE REMOVED

PROPOSED NEW KERB INLET PIT ON ALBERT STREET

EXIS. KIP RL:21.53 IL:20.60

PROPOSED KIP GRATE RL:21.62 IL:20.70

PROPOSD Ø375mm RCP PIPE @1%

Ø300mm uPVC PIPE @1%

PIPE IL: 20.70

PIPE IL: 20.75

EXISTING Ø375mm RCP PIPE @1%

UNDERGROUND SPEL FILTER TANK
GRATE RL:21.85
TANK BASE RL:20.75
OUTLET PIPE IL:20.75
SURFACE AREA:5.4m²
3xSF.14-EMC SPEL FILTER
DETAIL REFER TO SW300

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

PROPOSED RETAINING WALL REFER TO DETAIL TOP OF WALL: RL21.85

DENOTES FIRST FLUSH DEVICE TO MANUFACTURER'S SPECIFICATION (TYP.)

FOR CONTINUATION REFERRING TO SW201

ALBERT STREET

					Reference Coordination Drawing			
					Discipline	Drawing Title and Number	Date	Rev.
					ARCH			
					ARCH			
					STRUCT			
A	ISSUEFOR DA	DR	13.09.21	2	MECH			
P2	PRELIMINARY ISSUE	DR	25.08.21	1	ELEC			
P1	PRELIMINARY ISSUE	DR	16.08.21	1	HYD			
Issue	Last revision title	by	Date	Status	FIRE			
					LANDS			
					CIVIL			
					SURVEY			

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

QUALITY CONTROL

DRAWN	DR	DATE	13.09.21
CHECKED	SH	DATE	13.09.21
DESIGNED	DR	DATE	13.09.21
VERIFIED	SH	DATE	13.09.21
APPROVED	SH	DATE	13.09.21

Scales
0m 1 2 3 4 5
SCALE 1:100 ON ORIGINAL SIZE

CLIENT
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PROJECT
PROPOSED MULTI-DEWLLING DEVELOPMENT
71 ALBERT STREET,
WERRINGTON

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	2 OF 7	1:100 @ A1

Drawing Status: FOR APPROVAL
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Drawing Title
STORMWATER CONCEPT DESIGN
GROUND FLOOR PLAN - SHEET 1 OF 2

Project No	Drawing No	Revision No
20210155	SW200	A

C:\Production\2021\20210155 71 Albert Street, Werrington\Civil\cad\SW200-SW201.dwg

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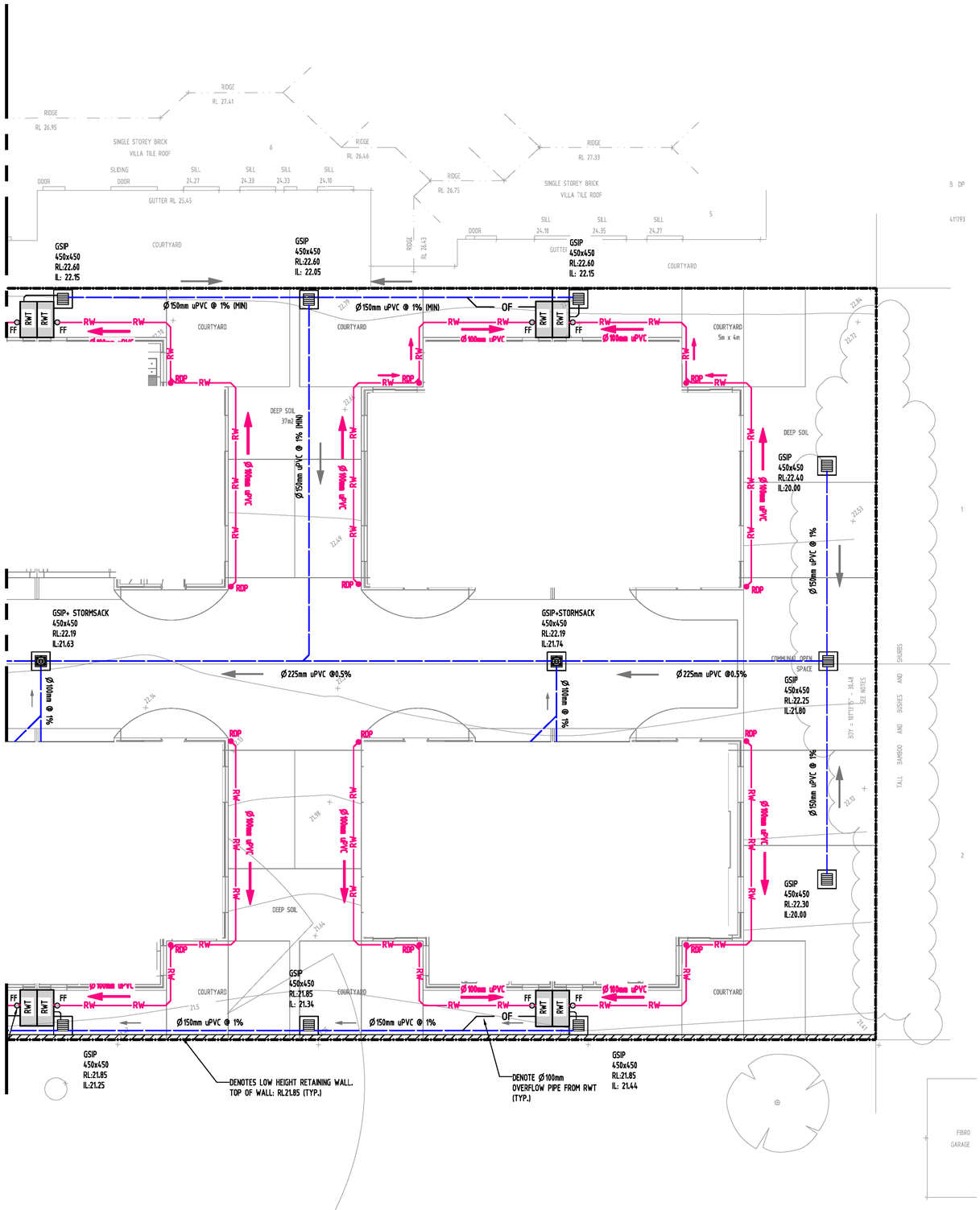
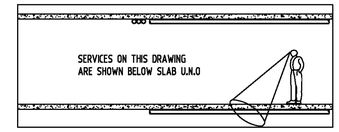
A1

FOR CONTINUATION REFERRING TO SW 200



SERVICES ON THIS DRAWING ARE SHOWN BELOW SLAB U.N.O



A	ISSUEFOR DA	DR	13.09.21	2
P2	PRELIMINARY ISSUE	DR	25.08.21	1
P1	PRELIMINARY ISSUE	DR	16.08.21	1
Issue	Last revision title	by	Date	Status

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Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER

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Scales

0m 1 2 3 4 5

SCALE 1:100 ON ORIGINAL SIZE

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PROJECT

PROPOSED MULTI-DEWLLING DEVELOPMENT
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WERRINGTON

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	3 OF 7	1:100 @ A1

Drawing Status: FOR APPROVAL
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Drawing Title: STORMWATER CONCEPT DESIGN
GROUND FLOOR PLAN - SHEET 2 OF 2

Project No	Drawing No	Revision No
20210155	SW202	A

Z:\Production\2021\20210155 71 Albert Street, Werrington\Civil\cad\SW200-SW201.dwg

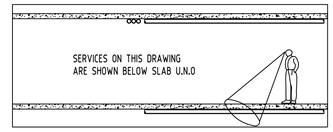
A1

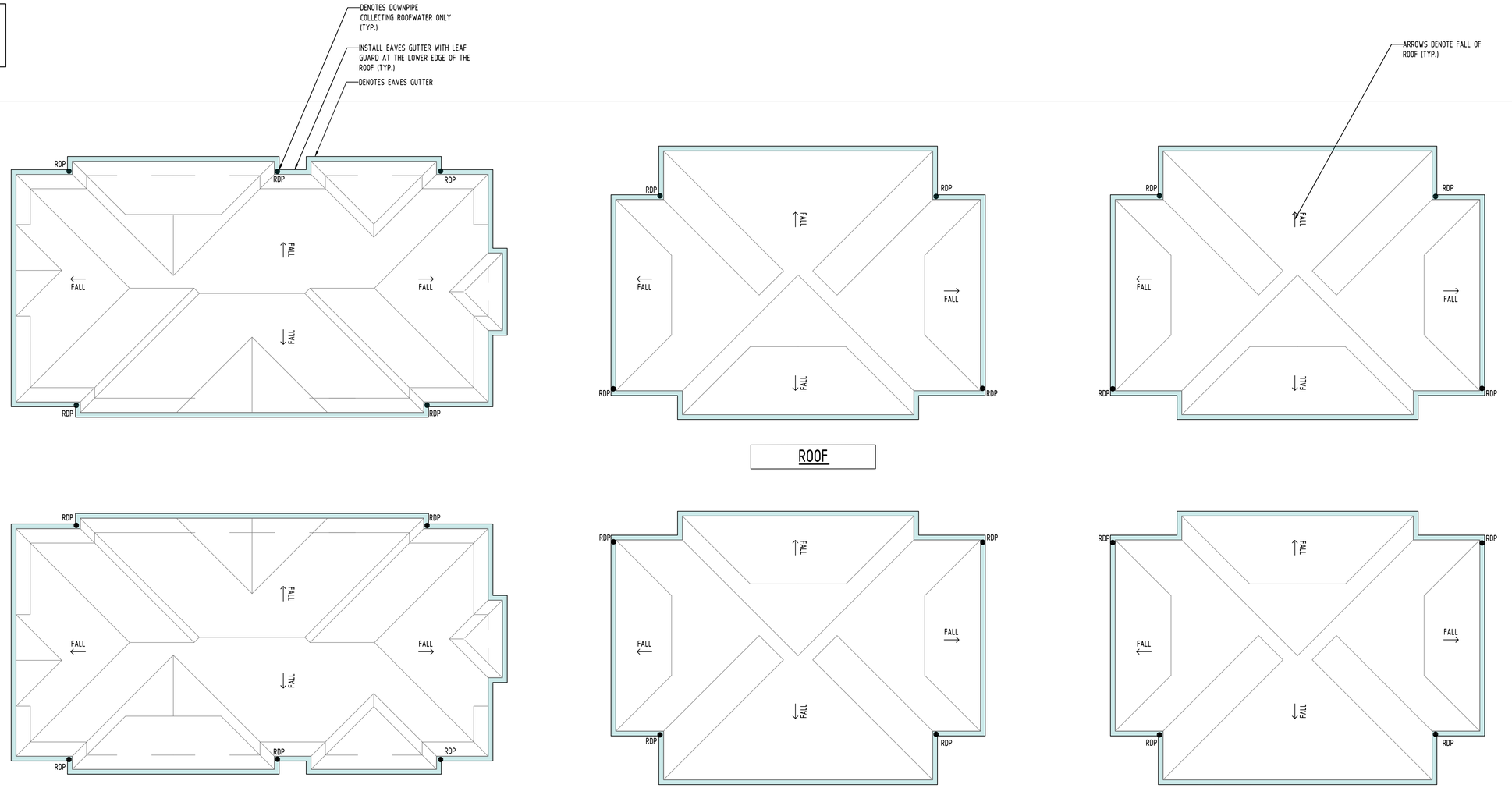
GUTTER NOTE:

ALL GUTTER TO BE INSTALLED WITH LEAF GUARDS TO AVOID ANY BLOCKAGE.

NOTE:

ALL GUTTERS AND DOWNPIPES ARE JUST INDICATIVE. EXACT SIZE AND LOCATION OF GUTTERS AND DOWNPIPES TO BE CONFIRMED AT CC STAGE.





ROOF

				Reference Coordination Drawing			
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				ARCH			
				ARCH			
				STRUCT			
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MEMBER

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Scales

0m 1 2 3 4 5
SCALE 1:100 ON ORIGINAL SIZE

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WERRINGTON

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	4 OF 7	1:100 @ A1

Drawing Status: FOR APPROVAL
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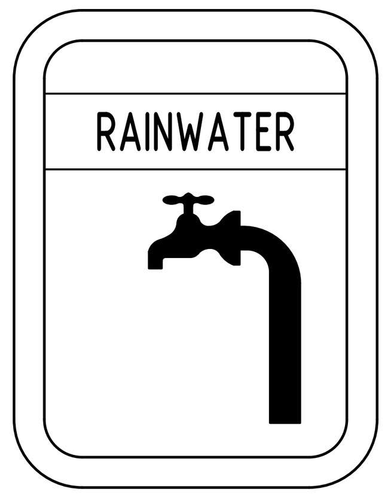
Drawing Title
STORMWATER CONCEPT DESIGN
ROOF PLAN

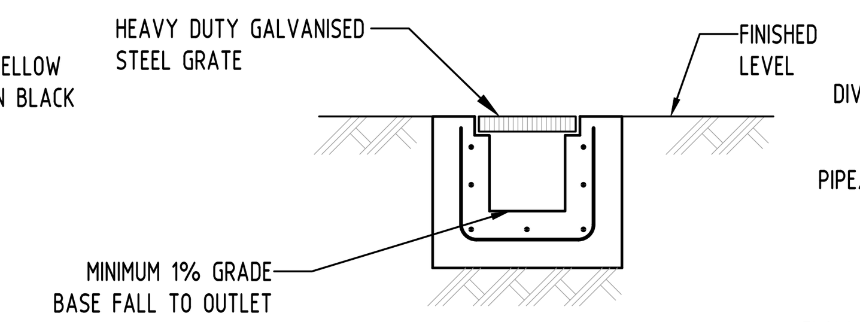
Project No	Drawing No	Revision No
20210155	SW202	A

A1

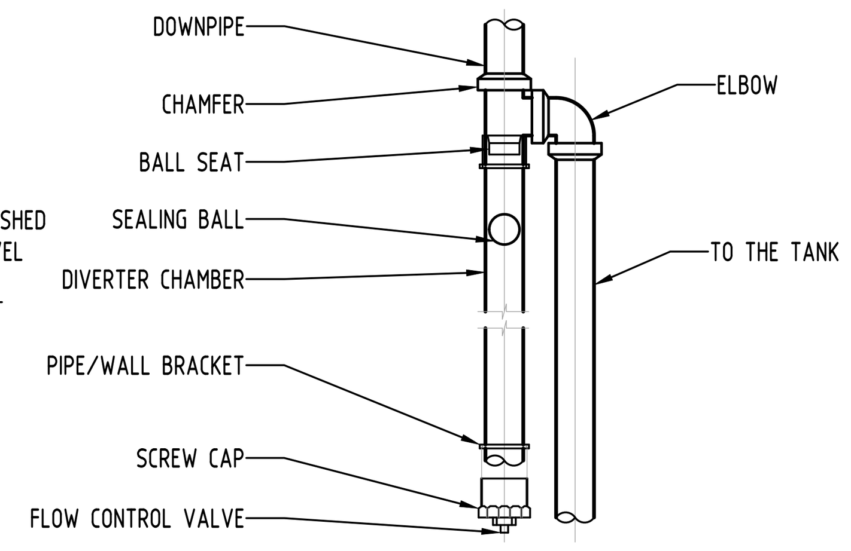


LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK
BACKGROUND

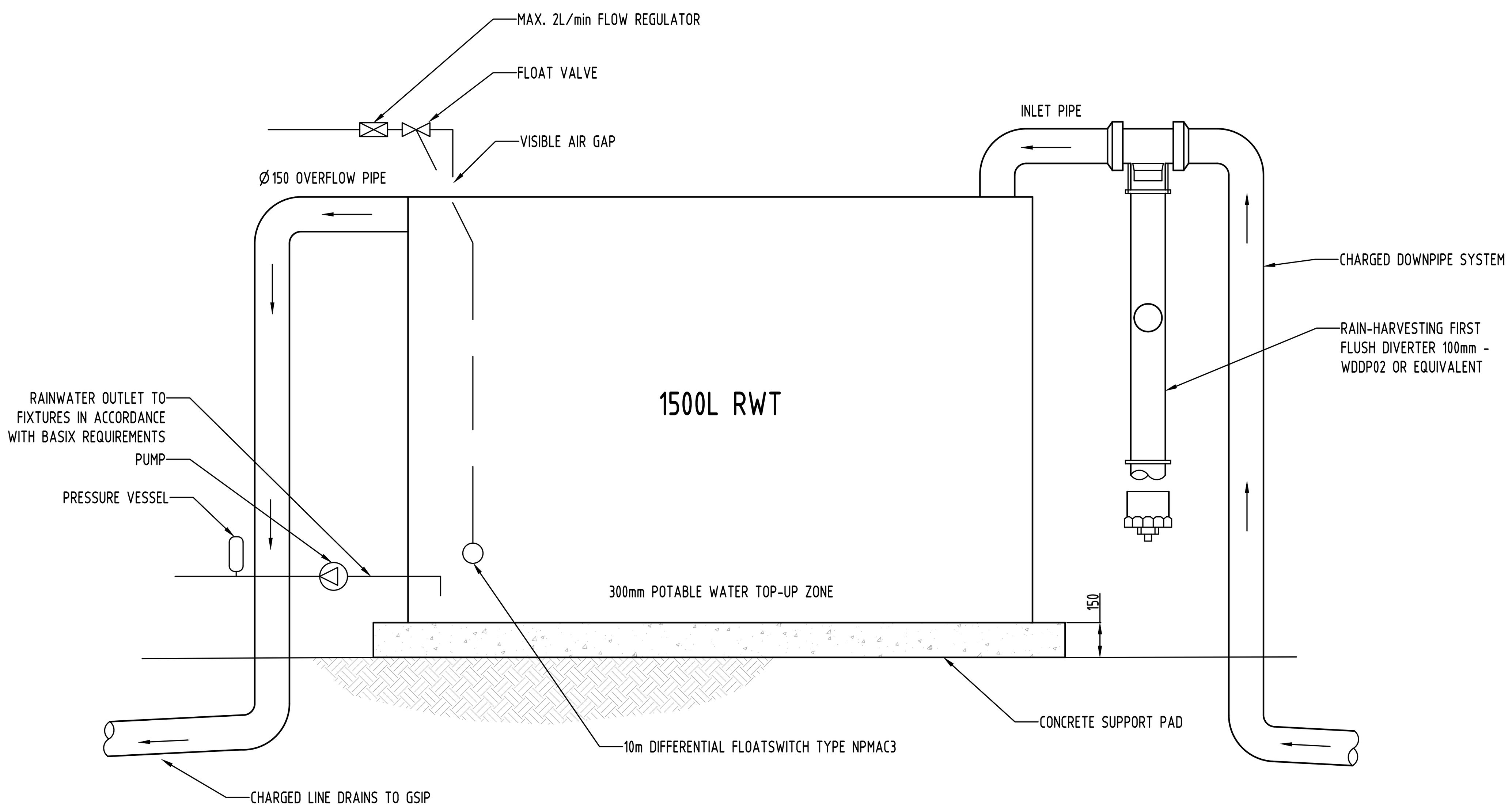
RAINWATER SIGN
SCALE 1:20



GRATED TRENCH DRAIN
SCALE 1:20



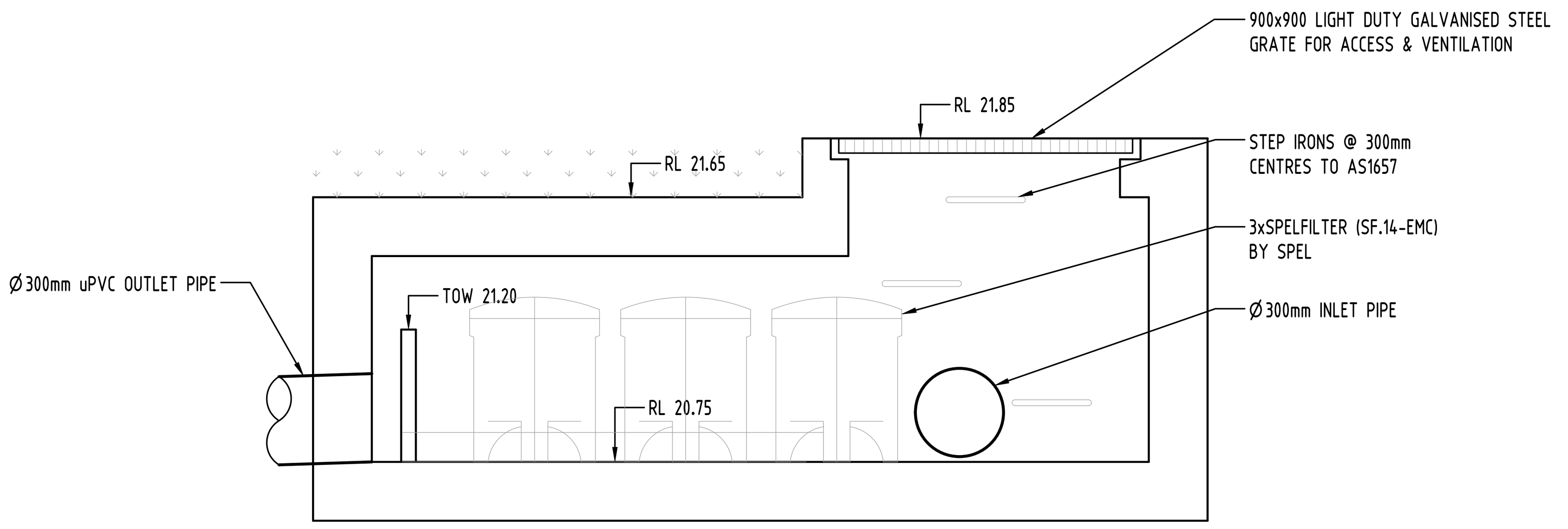
FIRST FLUSH DIVERTER
SCALE 1:20



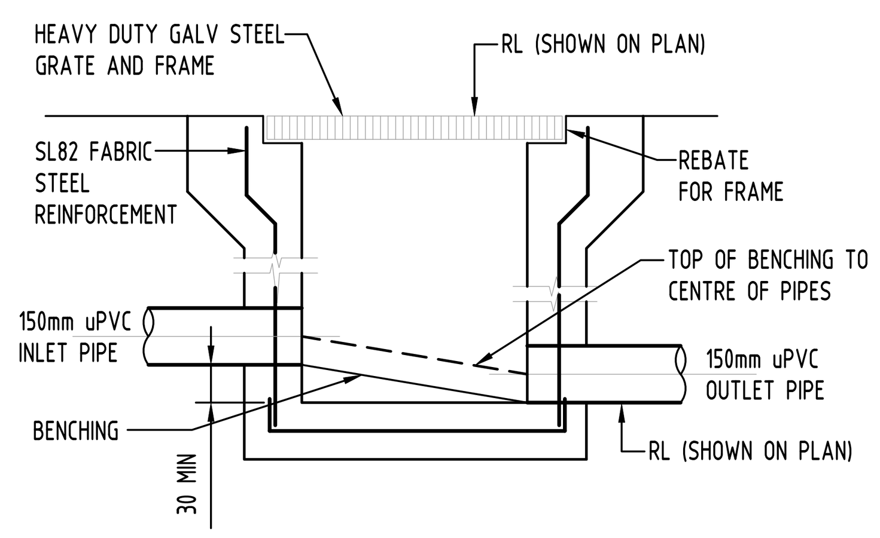
STANDARD RAINWATER TANK DETAIL
SCALE 1:20

LEGEND

- STORMWATER LINE
- RW — STORMWATER LINE TO RAINWATER TANK
- GRATED SURFACE INLET PIT
- GRATED TRENCH DRAIN
- OFP — OVERLAND FLOW PATH
- CO — CLEAR OUT POINT
- 1.01 — PIT TAG/NUMBER
- DP — DOWNPIPE
- RL00.00 — SPOT LEVEL
- EXISTING SPOT LEVEL
- S — AUTHORITY SEWER LINE
- W — AUTHORITY WATER LINE
- E — AUTHORITY ELECTRICITY LINE
- TEL — AUTHORITY COMMS LINE
- RDP — RAINWATER DOWNPIPE



A SECTION
SW200 FILTER TANK
SCALE 1:20



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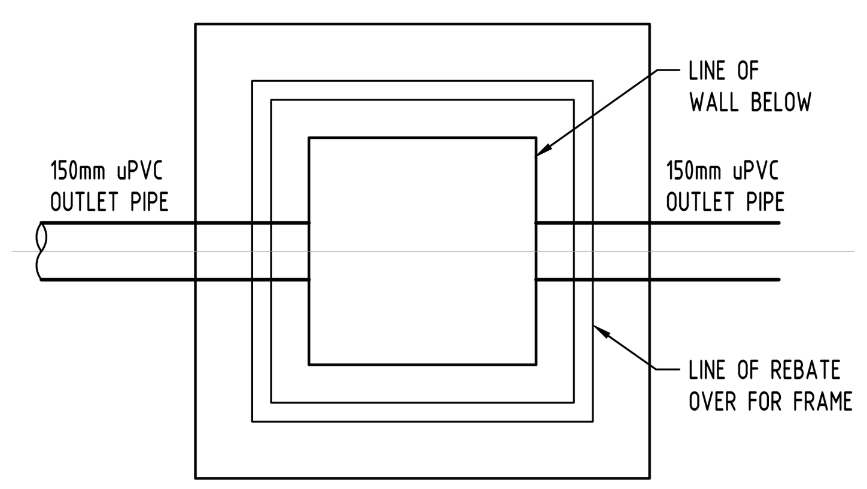
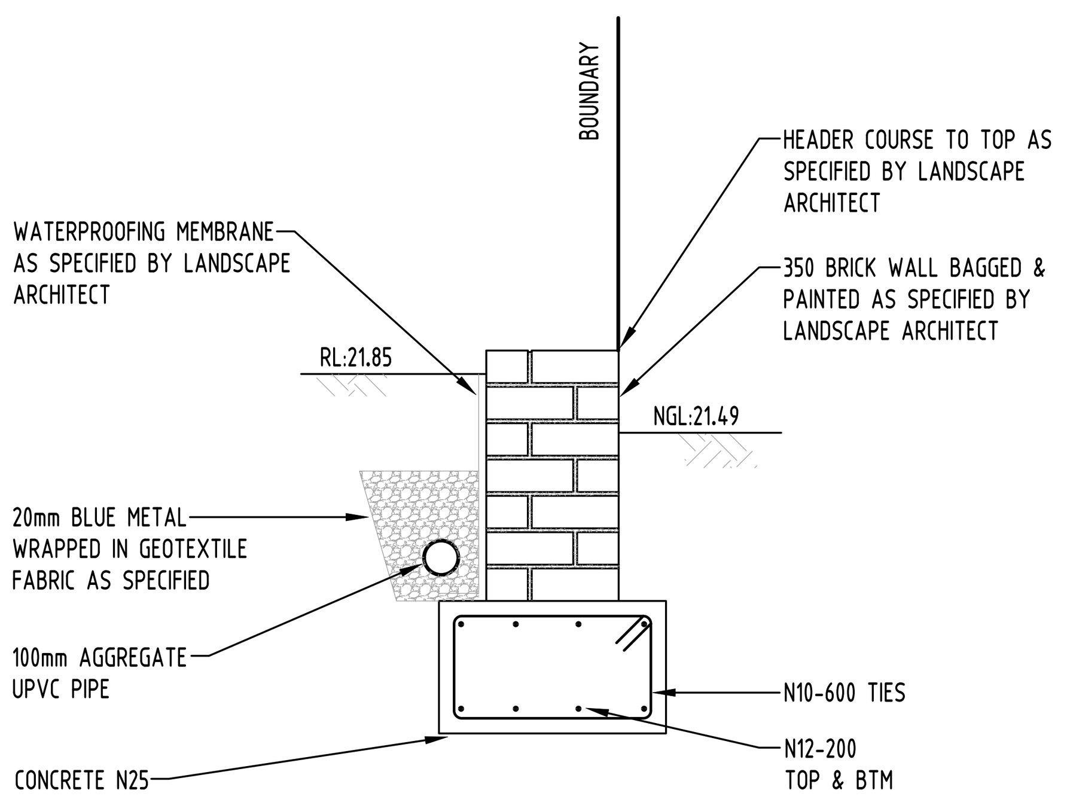
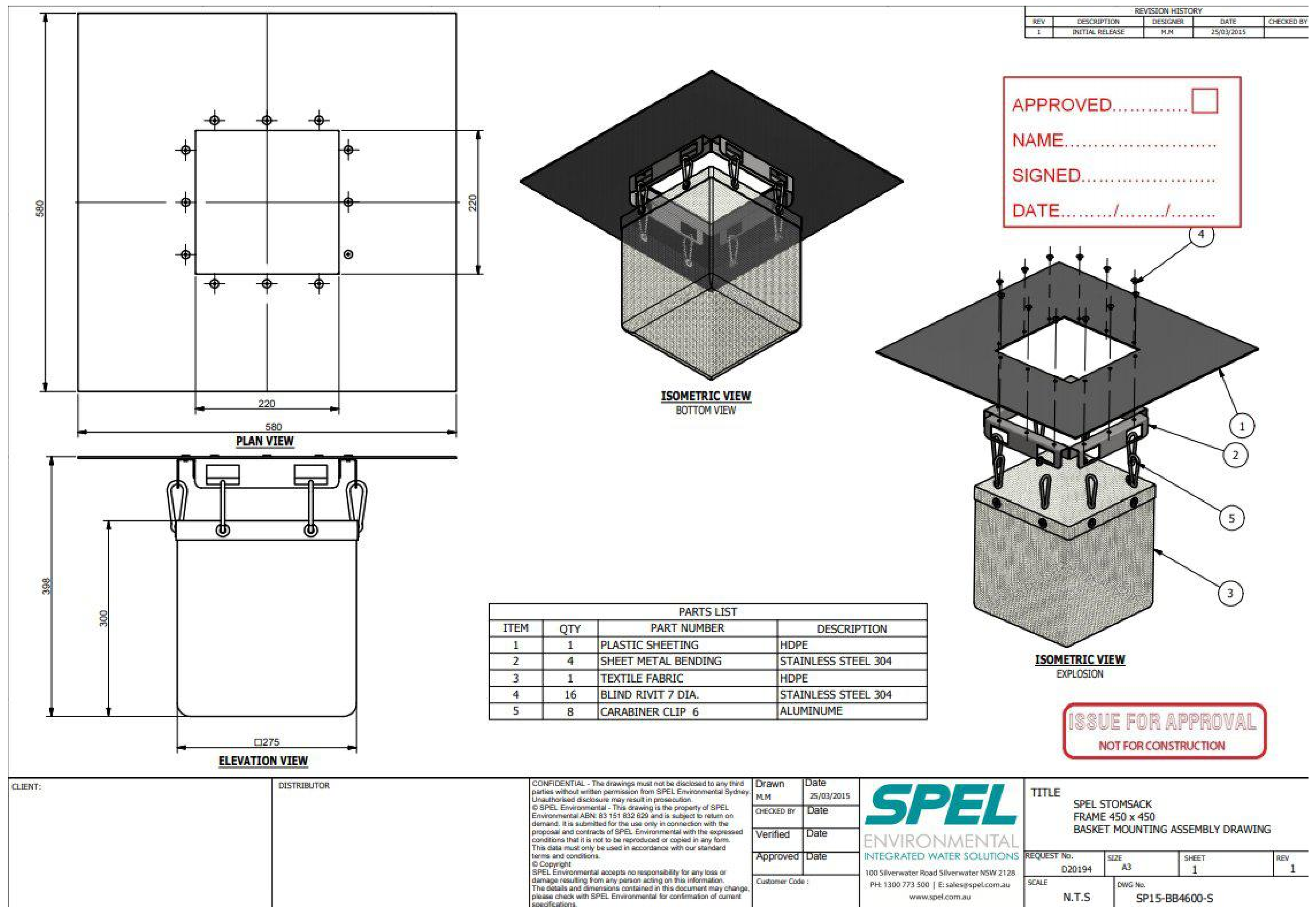


PLAN WITHOUT GRATE

STORMWATER PIT
SCALE 1:20



GRAVITY RETAINING WALL
NTS



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P2	PRELIMINARY ISSUE	DR	25.08.21	1
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CIVIL			
SURVEY			

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Chartered Professional Engineer
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Scales
SCALE 1:10 ON ORIGINAL SIZE
SCALE 1:20 ON ORIGINAL SIZE

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PROJECT
PROPOSED MULTI-DEWLLING DEVELOPMENT
71 ALBERT STREET,
WERRINGTON

Drawing Status
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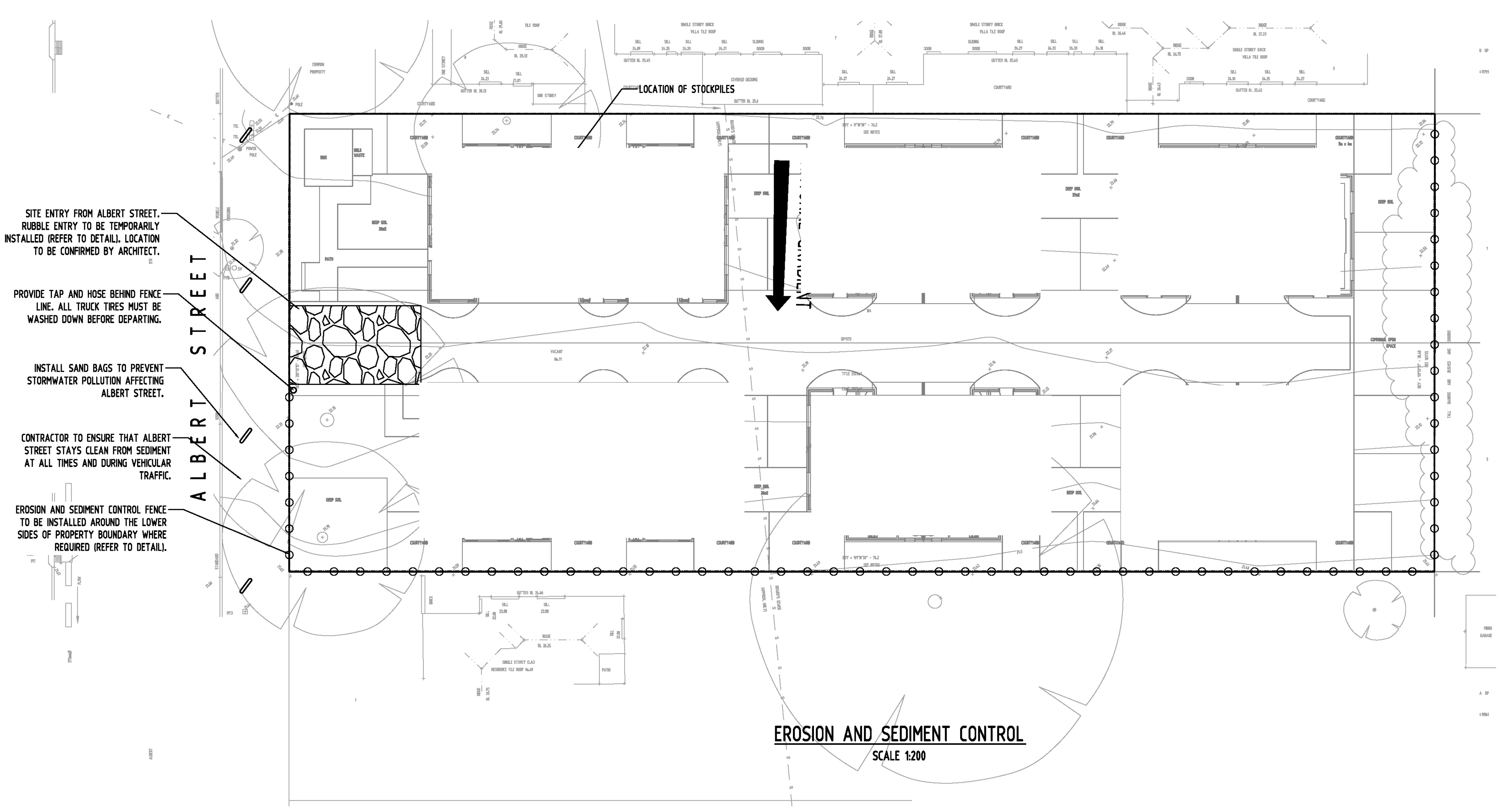
Drawing Title
STORMWATER CONCEPT DESIGN
DETAILS SHEET

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	5 OF 7	AS SHOWN

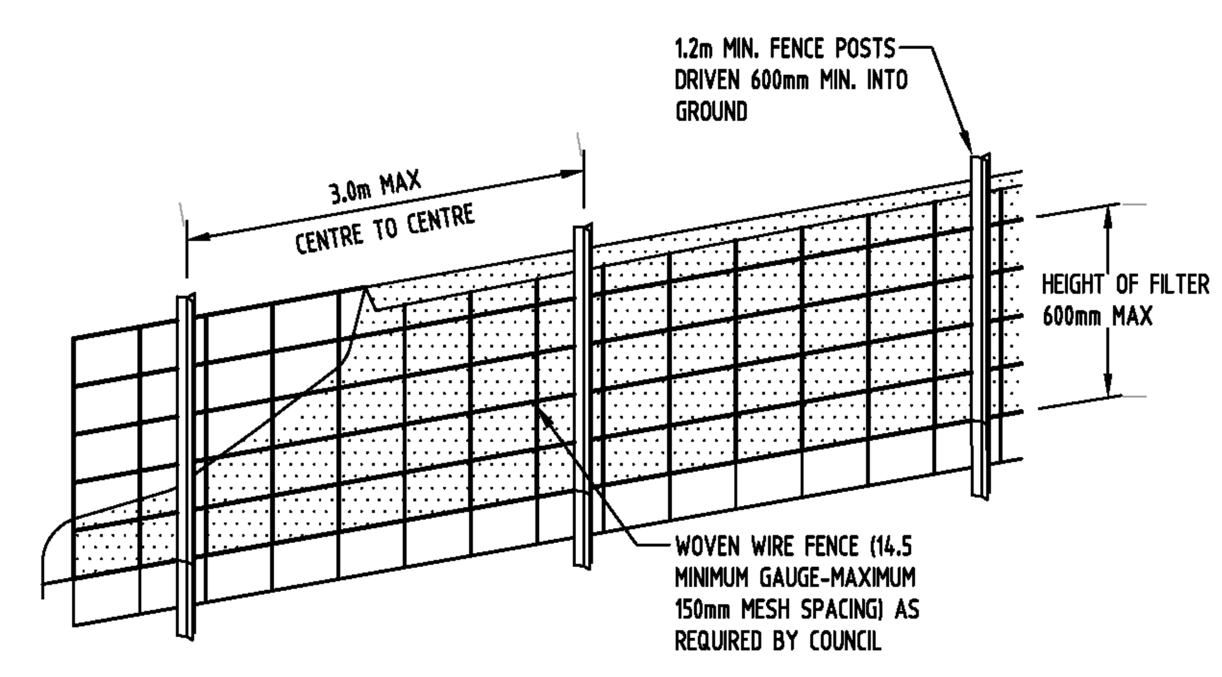
Project No	Drawing No	Revision No
20210155	SW300	A

DATE PLOTTED: 14 September 2021 3:55 PM BY : USER
CAD FILE: Z:\Production\2021\20210155 71 Albert Street, Werrington\Civil\cad\SW200.dwg
Document Set ID: 9735665
Version: 1, Version Date: 15/09/2021

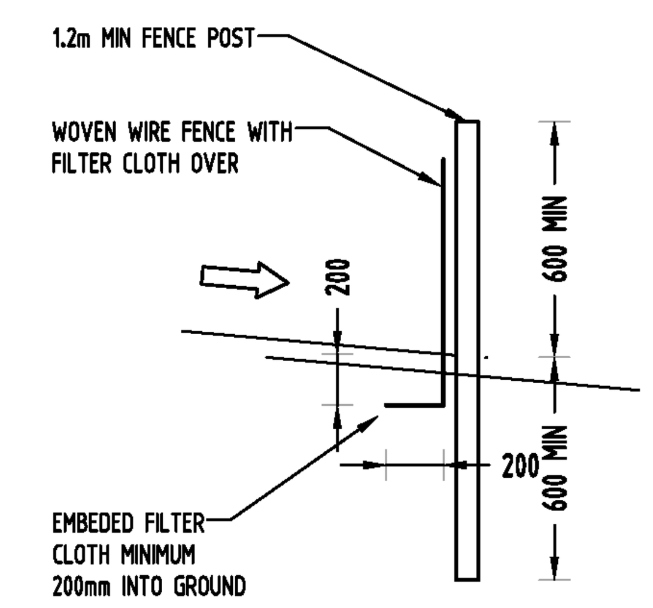
A1



EROSION AND SEDIMENT CONTROL
SCALE 1:200



DIAGRAMMATIC VIEW



TYPICAL SECTION

SEDIMENT FENCE
NOT TO SCALE

LEGEND

—o—o—o—	SEDIMENT FENCE
(hatched)	STABILISED SITE ACCESS
(sandbag symbol)	SANDBAGS

EROSION & SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

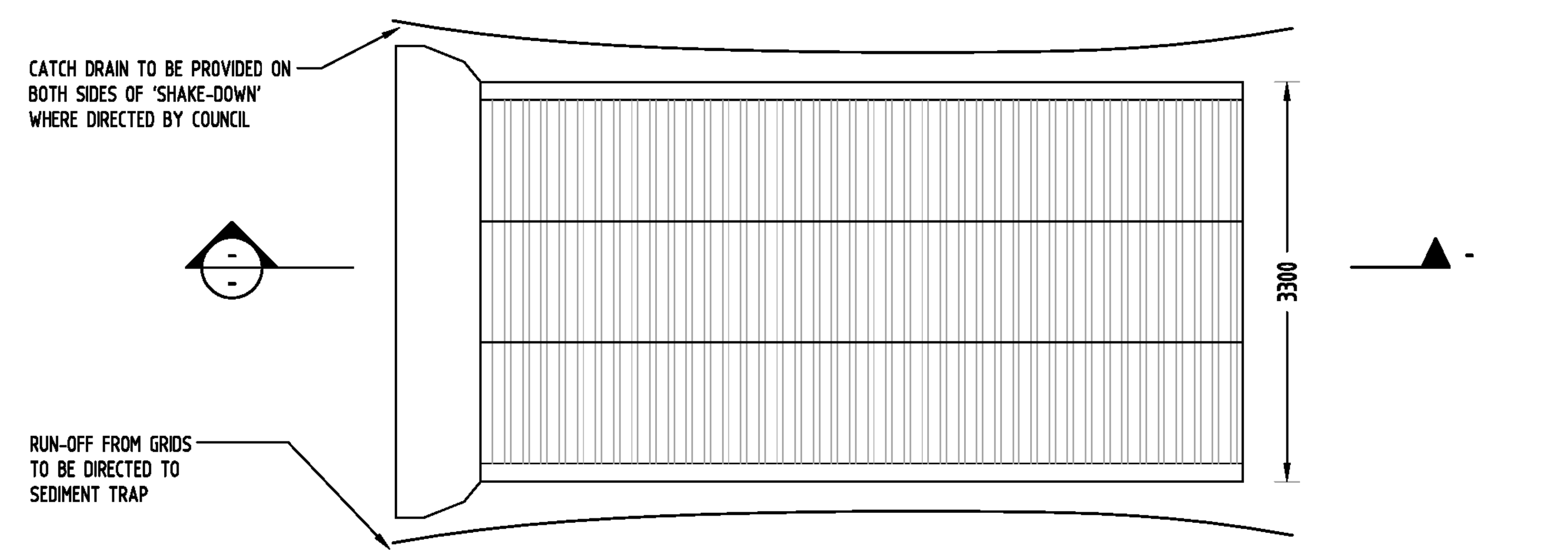
GENERAL NOTES

1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

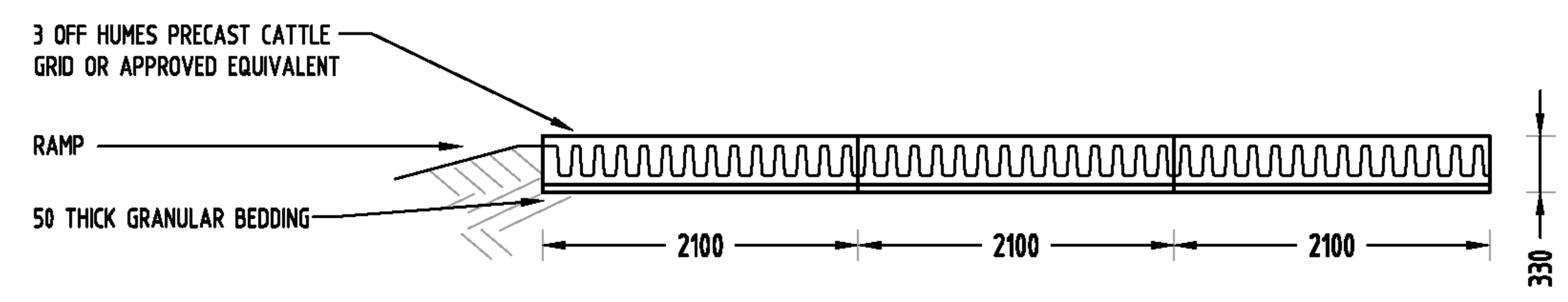
CLAY SOILS

A SYSTEM SHALL BE INSTALLED TO EITHER:

1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL



PLAN VIEW



TYPICAL SECTION

'CATTLE GRID' ALTERNATIVE
TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE

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MEMBER

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Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	6 OF 7	AS SHOWN

Drawing Status: FOR APPROVAL
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Drawing Title: EROSION AND SEDIMENT CONTROL PLAN AND DETAILS

Project No	Drawing No	Revision No
20210155	SW400	A

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XREF's: $?
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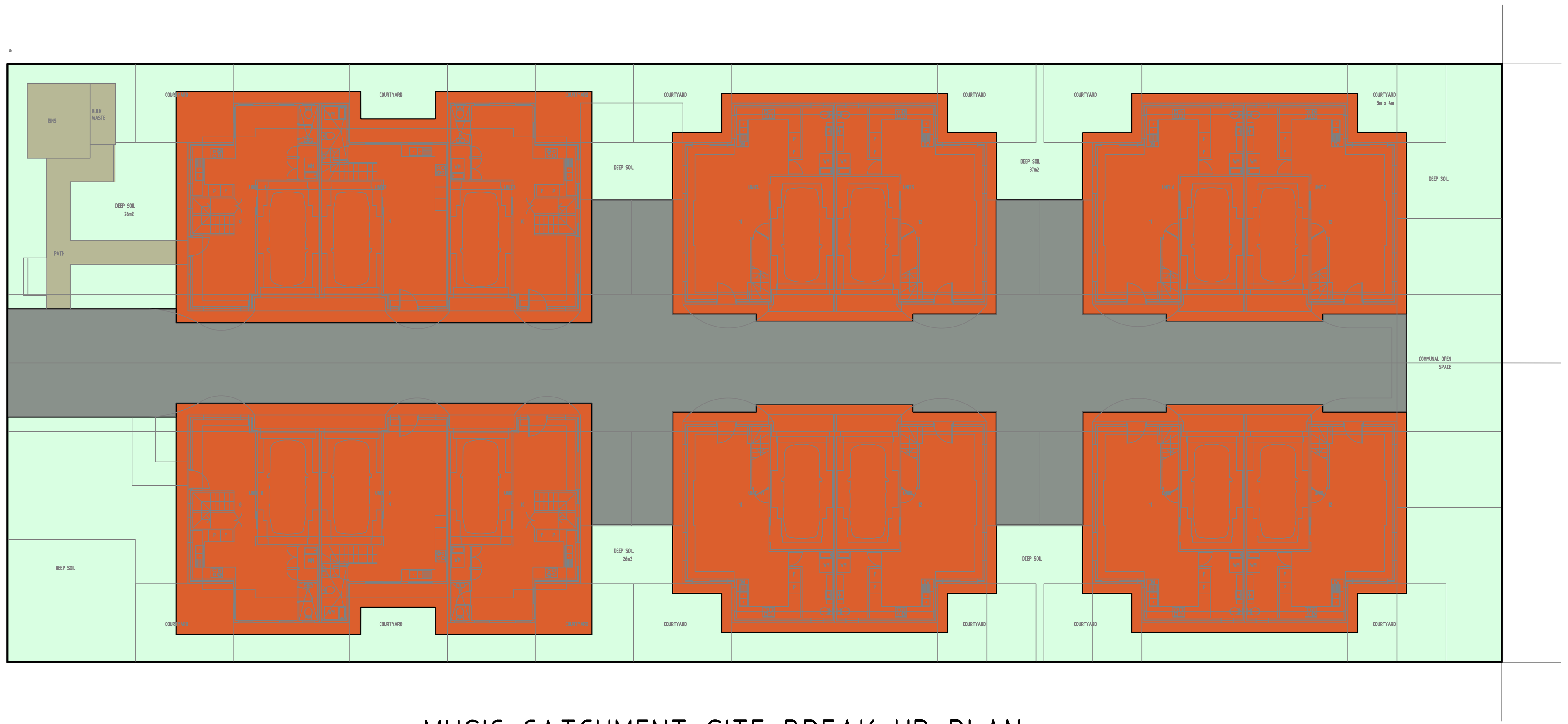
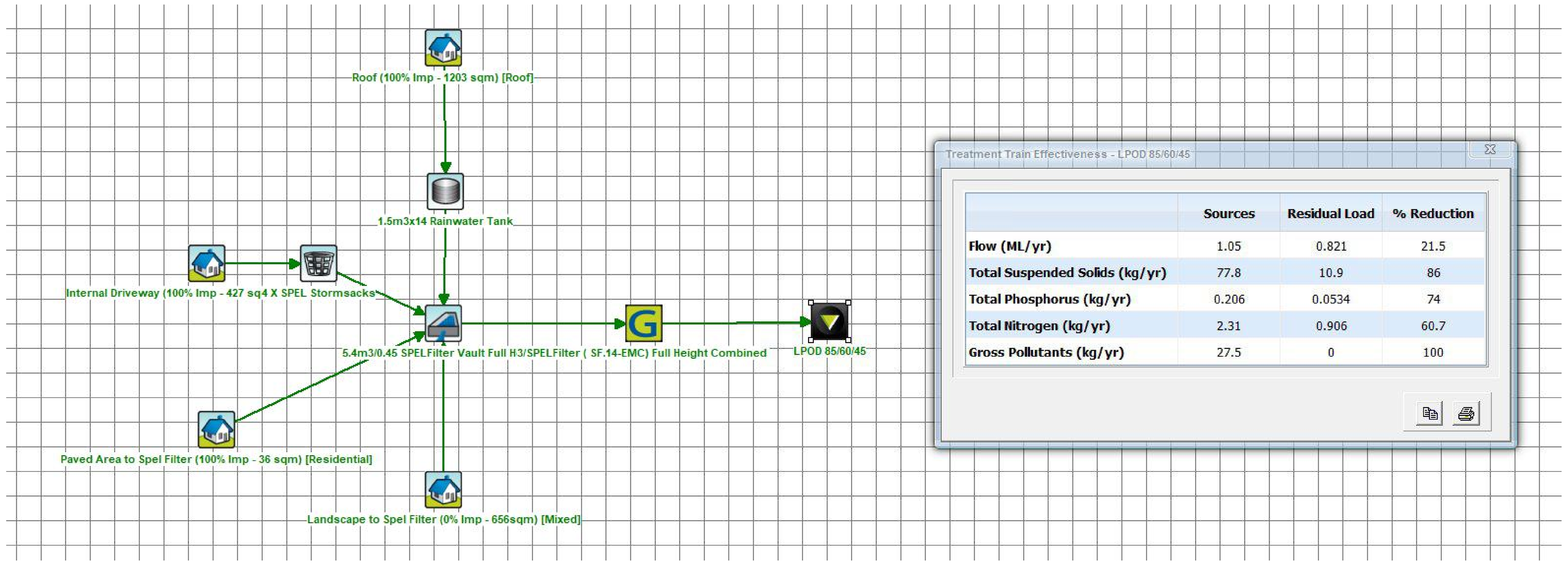


MUSIC CATCHMENT SITE BREAK UP PLAN

SCALE 1:250

LEGEND

(orange)	ROOF AREA TO RWT AND SPEL FILTER TANK (100% IMPERVIOUS) 1203 m^2
(grey)	INTERNAL DRIVEWAY TO STORMSACK AND SPEL FILTER TANK CHAMBER (100% IMPERVIOUS) 427 m^2
(tan)	PAVED AREA TO SPEL FILTER TANK (100% PERVIOUS) 36 m^2
(light green)	LANDSCAPE AREA SPEL FILTER TANK (100% PERVIOUS) 656 m^2



Treatment Train Effectiveness - LPOD 85/60/45

	Sources	Residual Load	% Reduction
Flow (ML/yr)	1.05	0.821	21.5
Total Suspended Solids (kg/yr)	77.8	10.9	86
Total Phosphorus (kg/yr)	0.206	0.0534	74
Total Nitrogen (kg/yr)	2.31	0.906	60.7
Gross Pollutants (kg/yr)	27.5	0	100

Issue	Last revision title	by	Date	Status
A	ISSUEFOR DA	DR	13.09.21	2
P2	PRELIMINARY ISSUE	DR	25.08.21	1
P1	PRELIMINARY ISSUE	DR	16.08.21	1

Issuer internal sequence and revision history
1-preliminary 2-development application 3-construction certificate
4-tender 5-construction 6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

QUALITY CONTROL

DRAWN	DR	DATE	13.09.21
CHECKED	SH	DATE	13.09.21
DESIGNED	DR	DATE	13.09.21
VERIFIED	SH	DATE	13.09.21
APPROVED	SH	DATE	13.09.21

Scales
0m 2.5 5 7.5 10 12.5
SCALE 1:250 ON ORIGINAL SIZE

CLIENT
CAZ BUILD

ARCHITECT
obrien design+drafting

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PROJECT
PROPOSED MULTI-DEWLLING DEVELOPMENT
71 ALBERT STREET, WERRINGTON

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	7 OF 7	1:250 @ A1

Drawing Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title
STORMWATER CONCEPT DESIGN
MUSIC CATCHMENT PLAN

Project No	Drawing No	Revision No
20210155	SW500	A

XREF's: $?
CAD FILE: Z:\Production\2021\20210155 71 Albert Street, Werrington\Civil\cad\SW500.dwg
DATE PLOTTED: 14 September 2021 3:55 PM BY : USER

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