

Regulated Design Record				
Project Address:				
Project Title:				
Consent No:		Body Corporate Reg No:		
Drawing Title:		Drawing No:		
Rev	Date	Description	DP Full Name	Reg No
A	22/02/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078
B	31/10/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078

- EROSION CONTROL NOTES**
- ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
 - ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
 - INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER. TO COUNCIL'S STANDARDS
 - NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
 - ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE

- NOTES**
- ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
 - ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
 - ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
 - PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE.
 - PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.
 - ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
 - ALL EXTERNAL SLABS TO BE WATERPROOFED.
 - ALL GRATES TO HAVE CHILD PROOF LOCKS.
 - ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
 - ALL DPs TO HAVE LEAF GUARDS
 - ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
 - ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
 - COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
 - ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
 - EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

PROJECT:
PROPOSED DEVELOPMENT
 109A CHURCH STREET, LIDCOMBE
 CUMBERLAND COUNCIL

ACHITECT:
 FUSE ARCHITECTS

CLIENT:

BUILDER:

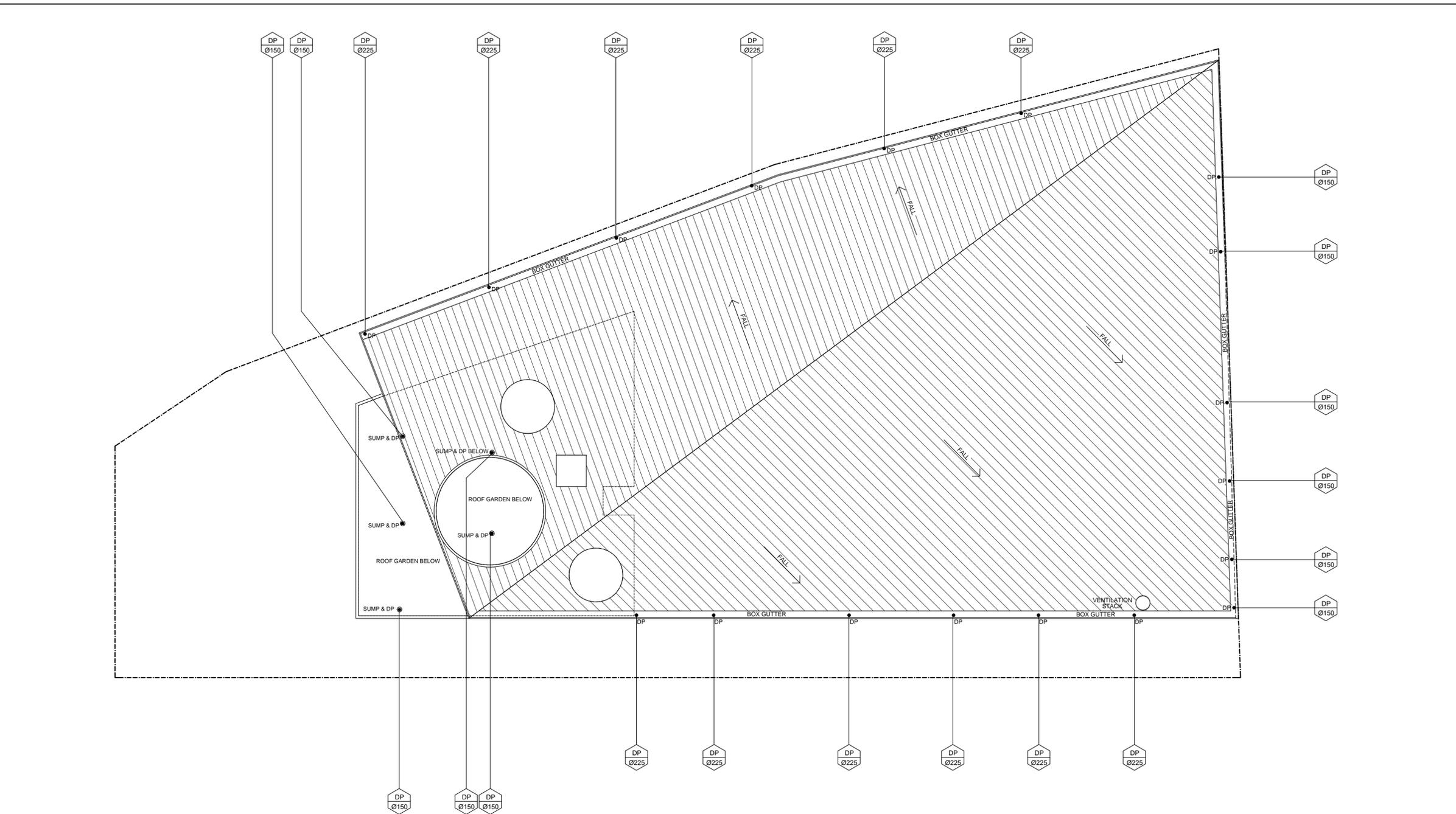
ZAIT Suite 5, 5-7 Villiers Street,
 Parramatta, NSW 2150
 Phone: 02 9630 3087
 Email: info@zait.com.au
 ABN 40 608 862 899
 ACN 608 862 899
 Engineering Solutions Pty Ltd

THE DRAWINGS, PLANS, SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ZAIT ENGINEERING SOLUTIONS PTY LTD AND MUST NOT BE USED, REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE WRITTEN PERMISSION OF ZAIT ENGINEERING SOLUTIONS. COPYRIGHT © ALL RIGHTS RESERVED

DRAWING TITLE:
ROOF DRAINAGE PLAN

STATUS: FOR DA ONLY

DESIGNED:	DZ	DAVID ZAITER	SCALE	SIZE
DRAWN:	VS	BEng(Hons), MIE(Aust), CPEng, NER RPEQ	1:200	A1
CHECKED:	DZ			
JOB No.	21-3020	DRAWING No.	D01	REV.
				B



SYMBOLS

- F.F.L. FINISHED FLOOR LEVEL
- F.G.L. FINISHED GARAGE LEVEL
- T.K. TOP OF KERB
- * 11.0 FINISHED LEVEL
- + 11.0 EXISTING LEVEL
- S.L. SURFACE LEVEL
- I.L. INVERT LEVEL
- 20 R ROOF CATCHMENT AREA (m2)
- 20 I IMPERVIOUS CATCHMENT AREA (m2)
- 20 L LANDSCAPED CATCHMENT AREA (m2)
- DP Ø100 DOWN PIPE OR EQUIVALENT
- SP SPREADER
- VD VERTICAL DROP
- VR VERTICAL RISER
- RWD RAIN WATER HEAD & DOWN PIPE
- CO CLEAN OUT POINT
- SUMP Ø150 SUMP
- CCJ CONCRETE COVER JUNCTION PIT
- GIP GRATED INLET PIT 450x450
- GD 200Wx100D GRATED DRAIN WITH 2% BTM SLOPE
- SWP STORMWATER PIPE
- SSWP SUSPENDED STORMWATER PIPE
- CSWP CHARGED STORMWATER PIPE
- Ø50 CAST IN PUMP LINE
- Ø100 SUBSOIL PIPE / DISH DRAIN
- SILT FENCE
- OF OVERLAND FLOW
- SF SURFACE FALL

ROOF DRAINAGE PLAN

SCALE 1:200

NOTE:

- ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE SEALED UP TO GUTTER LEVEL & BE PRESSURE TESTED AND CERTIFIED
- ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE.

REFER TO DRAWING NUMBER: D03 & D04 FOR ALL DRAINAGE DETAILS

DIAL 1100 BEFORE YOU DIG
 NO SUBSURFACE INVESTIGATION HAS BEEN MADE
 IT IS YOUR RESPONSIBILITY TO OBTAIN SERVICE
 DIAGRAMS FROM RELEVANT AUTHORITIES

Regulated Design Record				
Project Address:				
Project Title:				
Consent No:		Body Corporate Reg No:		
Drawing Title:		Drawing No:		
Rev	Date	Description	DP Full Name	Reg No
A	22/02/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078
B	31/10/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078

EROSION CONTROL NOTES

- ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
- ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
- INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER. TO COUNCIL'S STANDARDS.
- NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
- ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE.

NOTES

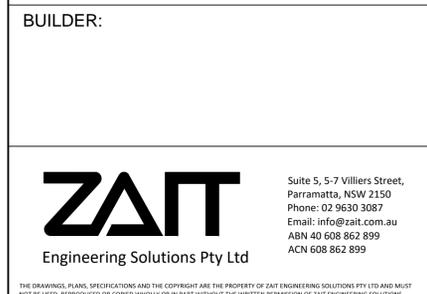
- ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
- ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
- PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE.
- PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.
- ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL EXTERNAL SLABS TO BE WATERPROOFED.
- ALL GRATES TO HAVE CHILD PROOF LOCKS.
- ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
- ALL DPS TO HAVE LEAF GUARDS.
- ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
- EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

PROJECT:
PROPOSED DEVELOPMENT
 109A CHURCH STREET, LIDCOMBE
 CUMBERLAND COUNCIL

ARCHITECT:
 FUSE ARCHITECTS

CLIENT:

BUILDER:

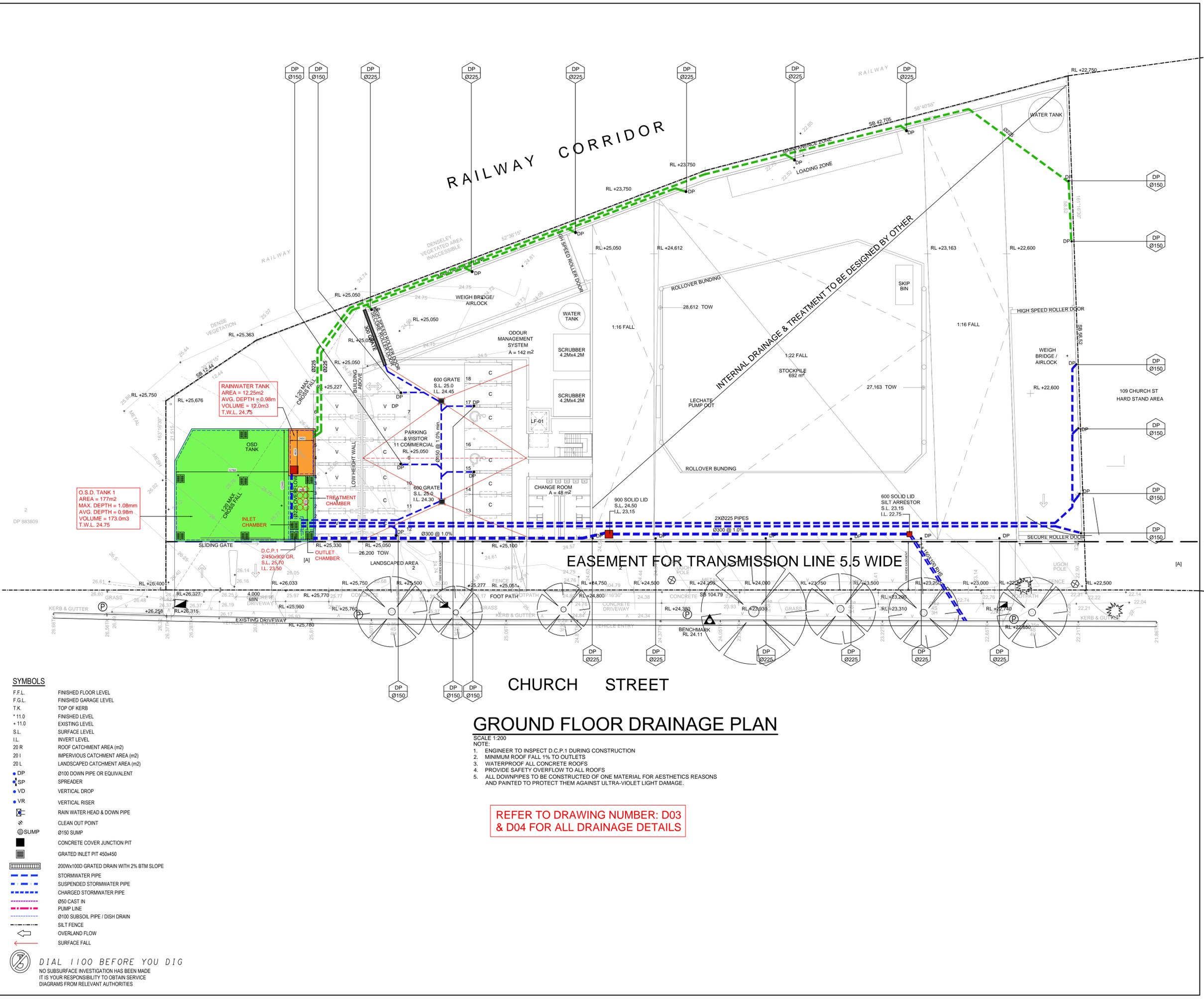


ZAIT Engineering Solutions Pty Ltd
 Suite 5, 5-7 Villiers Street, Parramatta, NSW 2150
 Phone: 02 9630 3087
 Email: info@zait.com.au
 ABN 40 608 862 899
 ACN 608 862 899

DRAWING TITLE:

STATUS: FOR DA ONLY

DESIGNED: DZ DAVID ZAITER
 BEng(Hons), MIEAust, CPEng, NER RPEQ
 DRAWN: VS SCALE SIZE
 CHECKED: DZ 1:00 A1
 JOB No. DRAWING No. REV.
 21-3020 B



Regulated Design Record				
Project Address:				
Project Title:				
Consent No:		Body Corporate Reg No:		
Drawing Title:		Drawing No:		
Rev	Date dd.mm.yy	Description	DP Full Name	Reg No
A	22/02/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078
B	31/10/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078

- EROSION CONTROL NOTES**
- ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
 - ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
 - INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER. TO COUNCIL'S STANDARDS
 - NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
 - ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE
- NOTES**
- ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
 - ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
 - ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
 - PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE.
 - PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.
 - ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
 - ALL EXTERNAL SLABS TO BE WATERPROOFED.
 - ALL GRATES TO HAVE CHILD PROOF LOCKS.
 - ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
 - ALL DPS TO HAVE LEAF GUARDS
 - ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
 - ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
 - COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
 - ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
 - EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

PROJECT:
PROPOSED DEVELOPMENT
 109A CHURCH STREET, LIDCOMBE
 CUMBERLAND COUNCIL

ARCHITECT:
FUSE ARCHITECTS

CLIENT:

BUILDER:

Suite 5, 5-7 Villiers Street,
 Parramatta, NSW 2150
 Phone: 02 9630 3087
 Email: info@zait.com.au
 ABN 40 608 862 899
 ACN 608 862 899

THE DRAWINGS, PLANS, SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ZAIT ENGINEERING SOLUTIONS PTY LTD AND MUST NOT BE USED, REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE WRITTEN PERMISSION OF ZAIT ENGINEERING SOLUTIONS. COPYRIGHT © ALL RIGHTS RESERVED

DRAWING TITLE:
DRAINAGE DETAILS (Sheet 1 of 2)

STATUS: FOR DA ONLY

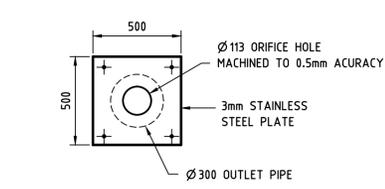
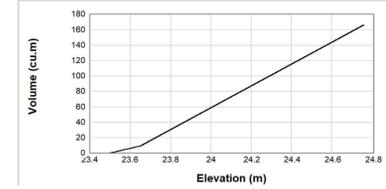
DESIGNED: DZ DAVID ZAITER
 BEng(Hons), MIEAust, CPEng, NER RPEQ

DRAWN: VS SCALE SIZE
 CHECKED: DZ 1:100 A1

JOB No. DRAWING No. REV.
 21-3020 D03 B

SUMMARY OSD CALCULATIONS					
TOTAL SITE AREA = 4457m ²					
ARI	Qpre	Qpost	TWL	VOL	
5	64	22	24.25	88	
10	82	25	24.36	108	
20	100	27	24.48	123	
50	119	29	24.62	144	
100	133	29	24.75	166	

REFER TO DRAINS FILES FOR ALL STORM EVENTS



ORIFICE PLATE ELEVATION
 SCALE: 1:10

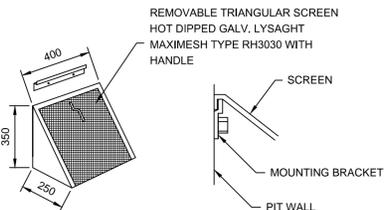


CONFINED SPACE WARNING SIGN

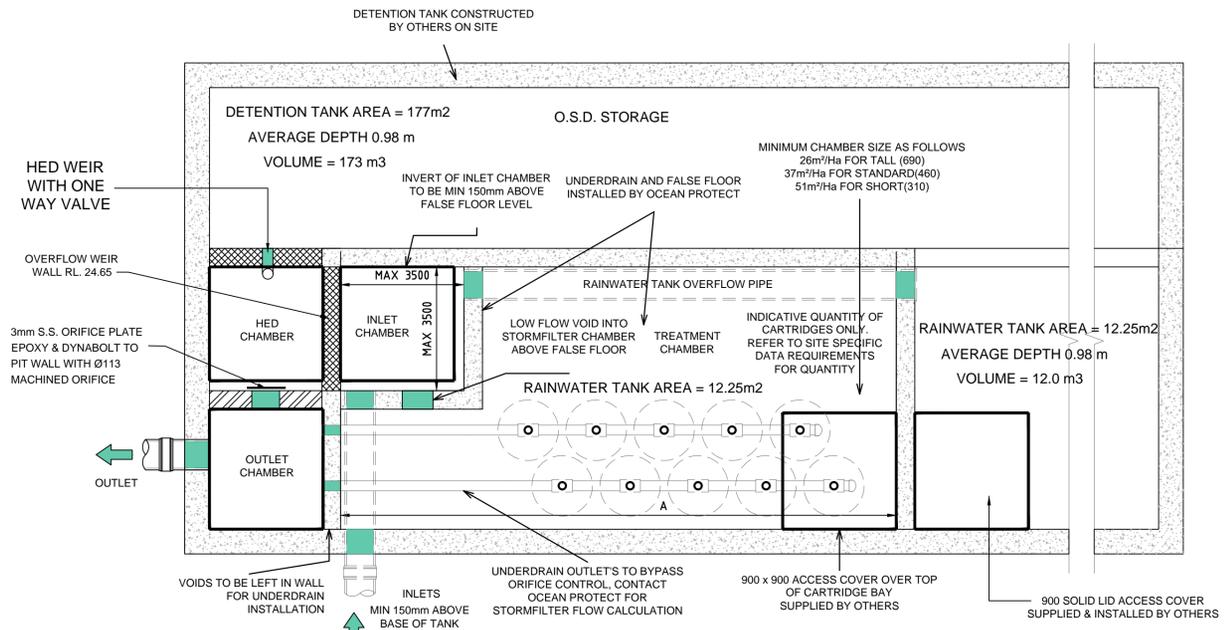
A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT EACH ACCESS GRATE OF THE BELOW GROUND DETENTION TANK IN ACCORDANCE WITH THE UPPER PARRAMATTA RIVER CATCHMENT TRUST HANDBOOK

SYMBOLS

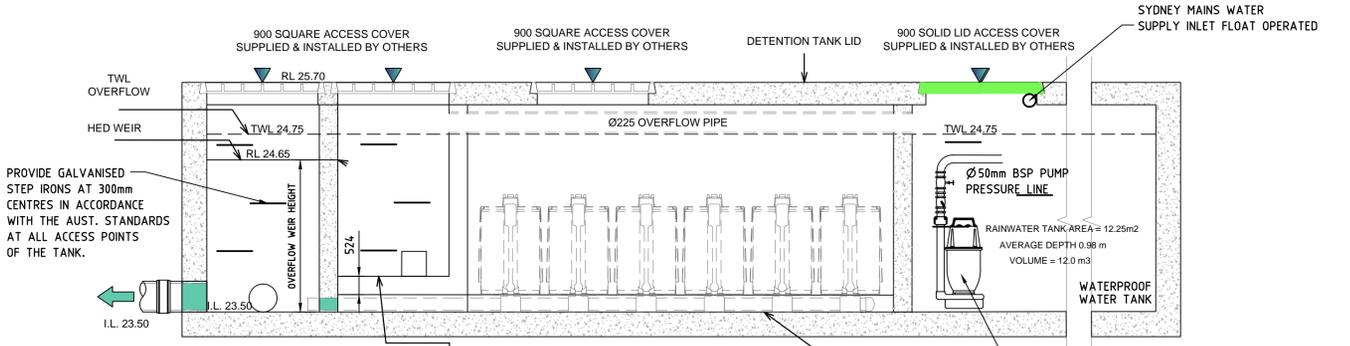
- F.F.L. FINISHED FLOOR LEVEL
- F.G.L. FINISHED GARAGE LEVEL
- T.K. TOP OF KERB
- + 11.0 FINISHED LEVEL
- + 11.0 EXISTING LEVEL
- S.L. SURFACE LEVEL
- I.L. INVERT LEVEL
- 20 R ROOF CATCHMENT AREA (m²)
- 20 I IMPERVIOUS CATCHMENT AREA (m²)
- 20 L LANDSCAPED CATCHMENT AREA (m²)
- DP Ø100 DOWN PIPE OR EQUIVALENT
- SP SPREADER
- VD VERTICAL DROP
- VR VERTICAL RISER
- RW RAIN WATER HEAD & DOWN PIPE
- CO CLEAN OUT POINT
- SUMP Ø150 SUMP
- CC CONCRETE COVER JUNCTION PIT
- GI GRATED INLET PIT 450x450
- GD 200Wx100D GRATED DRAIN WITH 2% BTM SLOPE
- SW STORMWATER PIPE
- SS SUSPENDED STORMWATER PIPE
- CS CHARGED STORMWATER PIPE
- Ø50 CAST IN PUMP LINE
- Ø100 SUBSOIL PIPE / DISH DRAIN
- SF SILT FENCE
- OF OVERLAND FLOW
- SF SURFACE FALL



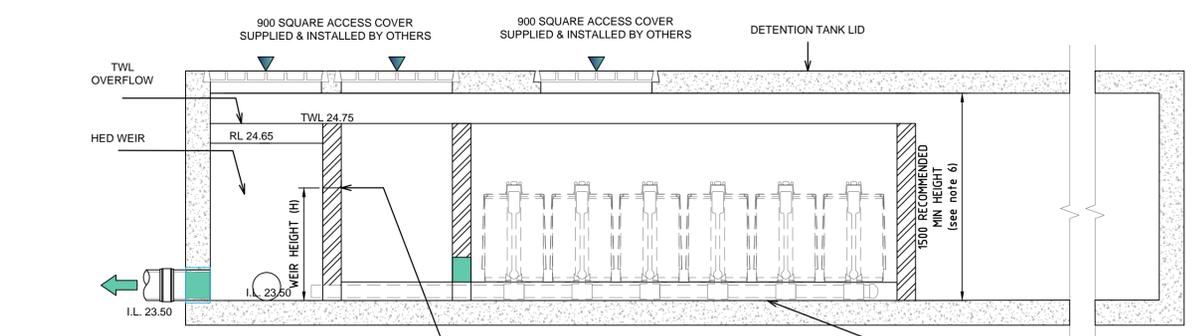
MULTI PURPOSE FILTER SCREEN
 SCALE: 1:20
 PRODUCT CODE: MMMP5 (MASCOT ENGINEERING)



PLAN LAYOUT



SECTION



SECTION

DIAL 1100 BEFORE YOU DIG
 NO SUBSURFACE INVESTIGATION HAS BEEN MADE
 IT IS YOUR RESPONSIBILITY TO OBTAIN SERVICE
 DIAGRAMS FROM RELEVANT AUTHORITIES

Regulated Design Record				
Project Address:				
Project Title:				
Consent No:		Body Corporate Reg No:		
Drawing Title:		Drawing No:		
Rev	Date dd.mm.yy	Description	DP Full Name	Reg No
A	22/02/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078
B	31/10/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078

EROSION CONTROL NOTES

- ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
- ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
- INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER. TO COUNCIL'S STANDARDS
- NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
- ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE

NOTES

- ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
- ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
- PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE.
- PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.
- ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL EXTERNAL SLABS TO BE WATERPROOFED.
- ALL GRATES TO HAVE CHILD PROOF LOCKS.
- ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
- ALL DPS TO HAVE LEAF GUARDS
- ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
- EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

PROJECT:
PROPOSED DEVELOPMENT
 109A CHURCH STREET, LIDCOMBE
 CUMBERLAND COUNCIL

ARCHITECT:
 FUSE ARCHITECTS

CLIENT:

BUILDER:

Suite 5, 5-7 Villiers Street,
 Parramatta, NSW 2150
 Phone: 02 9630 3087
 Email: info@zait.com.au
 ABN 40 608 862 899
 ACN 608 862 899

THE DRAWINGS, PLANS, SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ZAIT ENGINEERING SOLUTIONS PTY LTD AND MUST NOT BE USED, REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE WRITTEN PERMISSION OF ZAIT ENGINEERING SOLUTIONS. COPYRIGHT © ALL RIGHTS RESERVED

DRAWING TITLE:
DRAINAGE DETAILS (Sheet 2 of 2)

STATUS: FOR DA ONLY

DESIGNED: DZ DAVID ZAITER
 BEng(Hons), MIEAust, CPEng, NER RPEQ

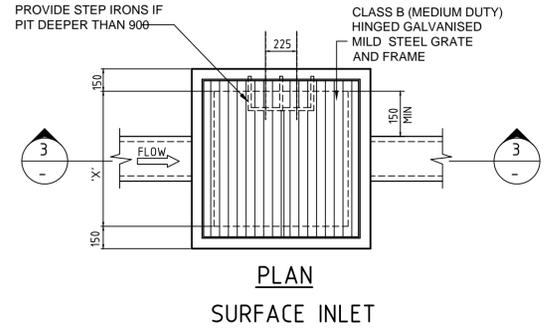
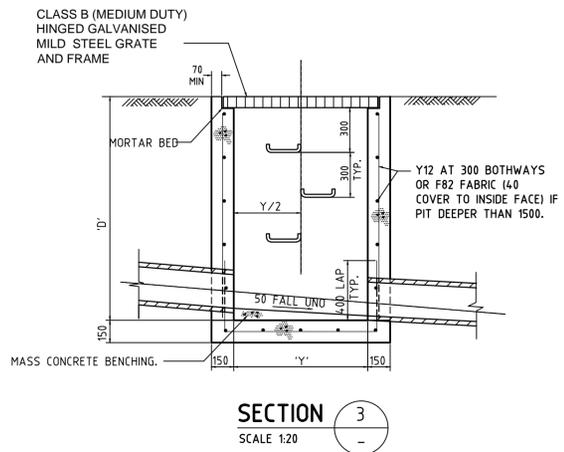
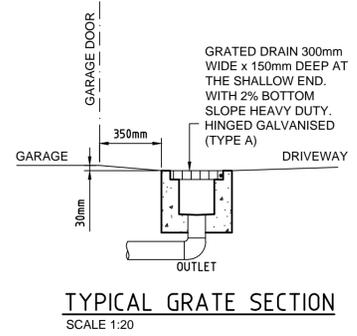
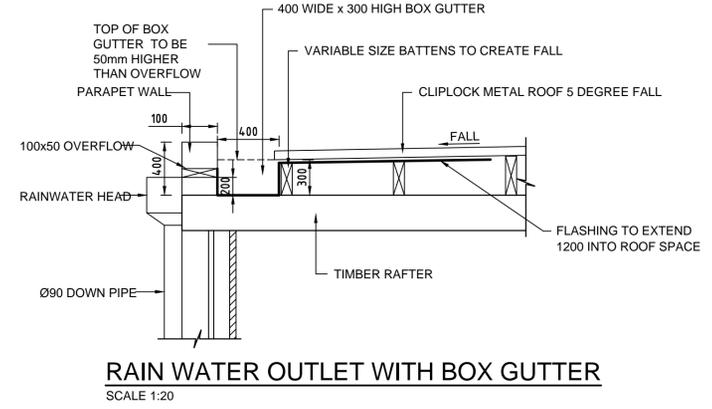
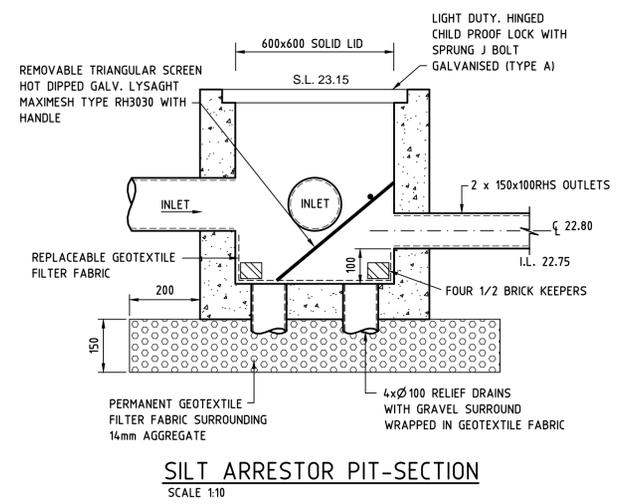
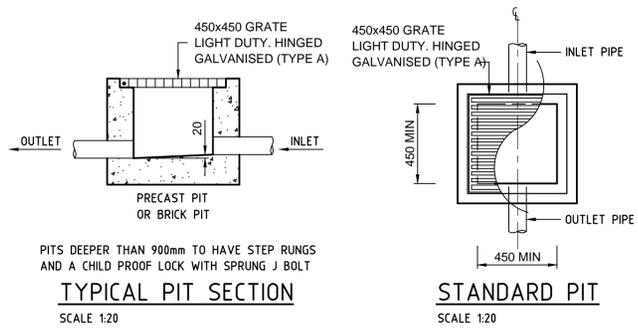
DRAWN: VS SCALE SIZE
 CHECKED: DZ 1:100 A1

JOB No. DRAWING No. REV.
 21-3020 D04 B

SYMBOLS

- F.F.L. FINISHED FLOOR LEVEL
- F.G.L. FINISHED GARAGE LEVEL
- T.K. TOP OF KERB
- + 11.0 FINISHED LEVEL
- + 11.0 EXISTING LEVEL
- S.L. SURFACE LEVEL
- I.L. INVERT LEVEL
- 20 R ROOF CATCHMENT AREA (m²)
- 20 I IMPERVIOUS CATCHMENT AREA (m²)
- 20 L LANDSCAPED CATCHMENT AREA (m²)
- DP Ø100 DOWN PIPE OR EQUIVALENT
- SP SPREADER
- VD VERTICAL DROP
- VR VERTICAL RISER
- R.R. RAIN WATER HEAD & DOWN PIPE
- CO CLEAN OUT POINT
- SUMP Ø150 SUMP
- CONCRETE COVER JUNCTION PIT
- GRADED INLET PIT 450x450
- 200Wx100D GRATED DRAIN WITH 2% BTM SLOPE
- STORMWATER PIPE
- SUSPENDED STORMWATER PIPE
- CHARGED STORMWATER PIPE
- Ø50 CAST IN PUMP LINE
- Ø100 SUBSOIL PIPE / DISH DRAIN
- SILT FENCE
- OVERLAND FLOW
- SURFACE FALL

DIAL 1100 BEFORE YOU DIG
 NO SUBSURFACE INVESTIGATION HAS BEEN MADE
 IT IS YOUR RESPONSIBILITY TO OBTAIN SERVICE
 DIAGRAMS FROM RELEVANT AUTHORITIES



PIT DIMENSIONS		
"D"	"X"	"Y"
300<D<450	450	450*
450<D<600	600	600*
600<D<900	900	900
900<D<1200	900	900
D<2400	900	1200

* NOTE: PITS DENOTED * SHALL BE USED ONLY WHERE SPECIFIED IN DRAINAGE SCHEDULE OR ON PLAN.

Regulated Design Record				
Project Address:				
Project Title:				
Consent No:		Body Corporate Reg No:		
Drawing Title:		Drawing No:		
Rev	Date	Description	DP Full Name	Reg No
A	22/02/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078
B	31/10/2023	ISSUED FOR DA ONLY	DAVID ZAITER	DEP0000078

TOTAL AREA = 3881 m2
 ROOF AREA TO RWT TANKS = 1292 m2
 ROOF AREA = 1997 m2
 OSD TANK = 186 m2
 HARDSTAND AREA = 314 m2
 HARDSTAND BYPASS = 77 m2
 RAINWATER TANK AREA = 15 m2
 EASEMENT AREA = 591m2 (NOT INCLUDED)

StormFilter Flow Calculator - Psorb Media
 The equation below defines the relationship between the diameter of the orifice plate, the flow rate through the cartridge and head.

$$Q = \frac{0.1114d^2.069\sqrt{h}}{60}$$

where d = Restrictor Disc Diameter
 Δh = head

Cartridge Name: 690
 Cartridge Quantity: 16
 Δh (m): 1.15
 Total Q at head: 17.64

- EROSION CONTROL NOTES**
- ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
 - ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECTS OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
 - INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER. TO COUNCIL'S STANDARDS
 - NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
 - ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE
- NOTES**
- ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
 - ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
 - ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
 - PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE.
 - PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.
 - ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
 - ALL EXTERNAL SLABS TO BE WATERPROOFED.
 - ALL GRATES TO HAVE CHILD PROOF LOCKS.
 - ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
 - ALL DPS TO HAVE LEAF GUARDS
 - ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
 - ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
 - COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
 - ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
 - EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

PROJECT:
 PROPOSED DEVELOPMENT
 109A CHURCH STREET, LIDCOMBE
 CUMBERLAND COUNCIL

ARCHITECT:
 FUSE ARCHITECTS

CLIENT:

BUILDER:

Suite 5, 5-7 Villiers Street,
 Parramatta, NSW 2150
 Phone: 02 9630 3087
 Email: info@zait.com.au
 ABN 40 608 862 899
 ACN 608 862 899

THE DRAWINGS, PLANS, SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ZAIT ENGINEERING SOLUTIONS PTY LTD AND MUST NOT BE USED, REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE WRITTEN PERMISSION OF ZAIT ENGINEERING SOLUTIONS. COPYRIGHT © ALL RIGHTS RESERVED

DRAWING TITLE:
 MUSIC MODEL

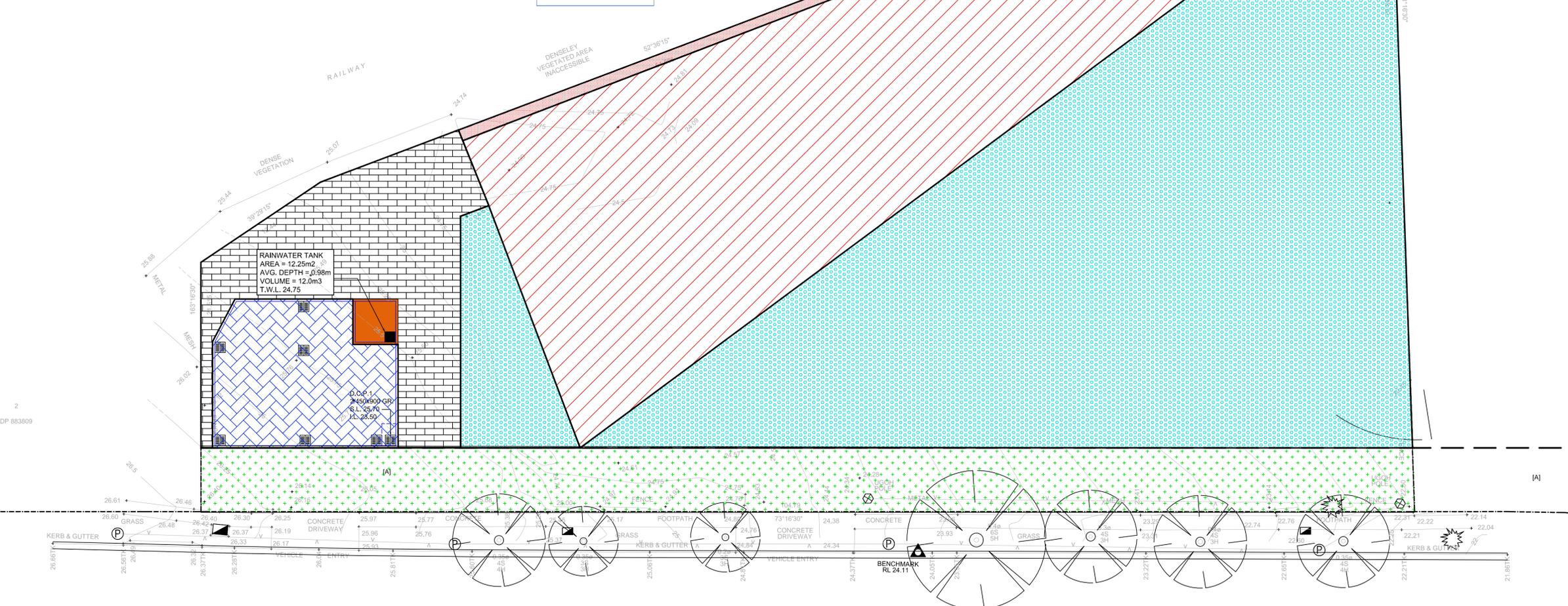
STATUS: FOR DA ONLY

DESIGNED: DZ DAVID ZAITER
 BEng(Hons), MIE(Aust), CPEng, NER RPEQ

DRAWN: VS SCALE SIZE
 1:200 A1

CHECKED: DZ

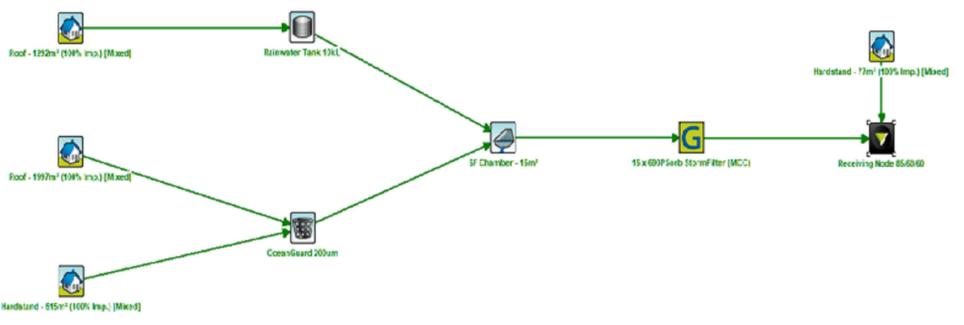
JOB No. DRAWING No. REV.
 21-3020 D05 B



**CHURCH STREET
 MUSIC MODEL CATCHMENT AREA**
 SCALE 1:200

SYMBOLS

F.F.L.	FINISHED FLOOR LEVEL		OSD TANK
F.G.L.	FINISHED GARAGE LEVEL		RAINWATER TANK
T.K.	TOP OF KERB		ROOF AREA TO RAINWATER TANKS
+11.0	FINISHED LEVEL		ROOF AREA
+11.0	EXISTING LEVEL		HARDSTAND PARKING AREA
S.L.	SURFACE LEVEL		BYPASSING HARDSTAND
IL	INVERT LEVEL		EASEMENT (NOT INCLUDED IN SITE AREA)
20 R	ROOF CATCHMENT AREA (m2)		
20 I	IMPERVIOUS CATCHMENT AREA (m2)		
20 L	LANDSCAPED CATCHMENT AREA (m2)		
DP	Ø100 DOWN PIPE OR EQUIVALENT		
SP	SPREADER		
VD	VERTICAL DROP		
VR	VERTICAL RISER		
	RAIN WATER HEAD & DOWN PIPE		
	CLEAN OUT POINT		
	Ø150 SUMP		
	CONCRETE COVER JUNCTION PIT		
	GRATED INLET PIT 450x450		
	200Wx100D GRATED DRAIN WITH 2% BTM SLOPE		
	STORMWATER PIPE		
	SUSPENDED STORMWATER PIPE		
	CHARGED STORMWATER PIPE		
	Ø50 CAST IN PUMP LINE		
	Ø100 SUBSOIL PIPE / DISH DRAIN		
	SILT FENCE		
	OVERLAND FLOW		
	SURFACE FALL		



Flow (ML/yr)	Sources	Residual Load	% Reduction
Flow (ML/yr)	2.91	2.68	7.9
Total Suspended Solids (kg/yr)	225	31.3	86
Total Phosphorus (kg/yr)	0.638	0.131	79.5
Total Nitrogen (kg/yr)	6.49	2.57	50.4
Gross Pollutants (kg/yr)	75.5	1.55	97.9

DIAL 1100 BEFORE YOU DIG
 NO SUBSURFACE INVESTIGATION HAS BEEN MADE
 IT IS YOUR RESPONSIBILITY TO OBTAIN SERVICE
 DIAGRAMS FROM RELEVANT AUTHORITIES