STORMWATER DRAINAGE NOTES:

- ALL PIPES TO BE 100mm Ø uPVC, LAID AT 1% MINIMUM GRADE TO AS1254.2002 U.N.O.

- ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D BELOW PAVEMENTS. (NO COMPACTION IS REQUIRED BELOW LANDSCAPING).

- COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.

- DOWNPIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

- PROVIDE CLEANING EYES AND LEAF CATCHERS TO ALL DOWNPIPES.

- ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.

- ALL LEVELS SHOWN ARE TO AHD.

- ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.

- ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.

- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3-2003 NATIONAL PLUMBING AND DRAINAGE CODE PART 3 - STORMWATER DRAINAGE.

- SUBSOIL DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AS3500.3 ALONGSIDE WALLS THAT IMPEDE THE NATURAL FLOW OF GROUNDWATER. THIS MAY ALSO INVOLVE TRENCHING INTO THE CLAY OR ROCK SUBGRADE TO DIRECT GROUNDWATER AWAY FROM STRUCTURES.

- EXISTING ROOF DRAINAGE AND SITE DRAINAGE SYSTEM TO BE CHECKED AND UPGRADED AS REQUIRED. BUILDER TO INSPECT AND UPGRADE DRAINAGE IN ACCORDANCE WITH AS3500.3 IF REQUIRED.

RAINWATER STORAGE / REUSE NOTES:

- THE RAINWATER TANK IS TO BE INSTALLED AND USED AS PER BASIX REQUIREMENTS AND SYDNEY WATER AND NSW HEALTH REQUIREMENTS FOR NON DRINKING USE ONLY.

- ALL CONNECTIONS TO PLUMBING AND RAINWATER TANKS IS TO BE IN ACCORDANCE WITH SYDNEY WATERS 'GUIDE TO INSTALLING A RAINWATER TANK' AVAILABLE AT: WWW.SYDNEYWATER.COM.AU.

- PROVIDE DUAL SUPPLY SYSTEM AND BACKFLOW PREVENTION SYSTEM IN ACCORDANCE WITH 'BASIX - DESIGN GUIDE FOR SINGLE DWELLINGS' BY NSW DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES.

- IF NOT SPECIFIED ON PLANS, THE FIRST FLUSH SYSTEM IS TO HAVE A MINIMUM SIZE OF 20L PER 100 m2 OF ROOF CATCHMENT AREA PRIOR TO ENTERING THE RAINWATER TANK. INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF LARGER VOLUMES OF FIRST FLUSH RAINWATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK WITH LOCAL HEALTH AUTHORITIES.

- SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING.

- FIRST FLUSH DEVISED, OR APPROVED ALTERNATIVE TO BE INSTALLED WITH AND AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES. REFER TYPICAL FLUSH OUT PIT FOR DETAILS.

- BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK SUITABILITY TO BE READ AND ADHERED TO.

- BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK - HB 230- 2008. IF IN DOUBT CONTACT ENGINEER.

- RAINWATER TANK TO BE WATERPROOFED IN ACCORDANCE WITH HB-230-2008.

- ORIFICE PLATE (IF APPLICABLE) TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE ROOF DRAINAGE SYSTEM AND CONNECTION OF THE STORMWATER SYSTEM TO THE OSD TANK.

SITE INFORMATION SUMMARY

COUNCIL	NORTHERN BEACHES (REGION 1)
SITE AREA	787 m^2
EXISTING IMPERVIOUS AREA	269 m^2 (34%)
PROPOSED IMPERVIOUS AREA	337 m^2 (43%)
REDUCTION	68 m^2

SINCE THE INCREASE IN IMPERVIOUS AREA EXCEEDS 50 m^2, OSD IS REQUIRED FOR THIS DEVELOPMENT.

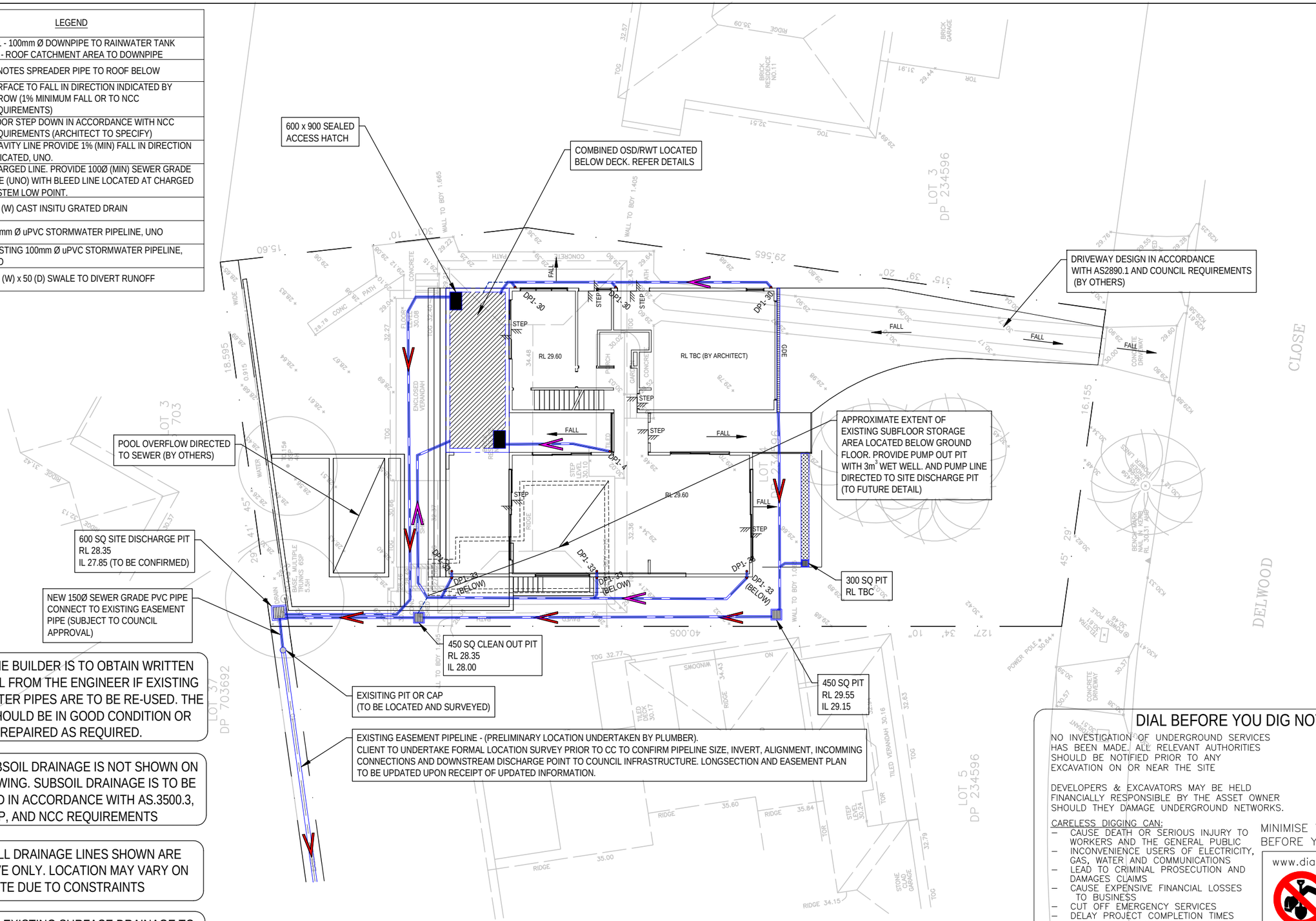
ONSITE DETENTION REQUIREMENTS

DRAINS SOFTWARE UTILISING ARR 2019 RESULTS ARE SUMMARISED BELOW BASED ON THE SPECIFIED ONSITE DETENTION VOLUME AND DISCHARGE RATES SPECIFIED.

PRE DEV	
20% AEP	14 L/s
5% AEP	23 L/s
1% AEP	36 L/s
POST DEV	
20% AEP	11 L/s (2 l/s from orifice)
5% AEP	18 L/s (2 l/s from orifice)
1% AEP	35 L/s (2 l/s from orifice)
OSD STORAGE (REQUIRED)	4.5 m^3 (5.52 m^3 PROVIDED)
OSD DISCHARGE (REQUIRED)	2 l/s

			Client	TIM & ISABEL VAN REES		Designed CH	04/12/23
						Checked CH	Approved CH	Scale 1 : 200
			Architect / Designer	RAMA ARCHITECTS	Project	10 DELWOOD CLOSE MONA VALE			
B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24							
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23	PO BOX: 1510, DEE WHY	APPROVED CONSULTING ENGINEERS	Title	GENERAL NOTES	Drawing number SW01	Job number 2023108	Revision B
	AMENDMENT	DATE	ABN - 90 645 409 801						

LEGEND	
DP1 - xxx	DP1 - 100mm Ø DOWNPIPE TO RAINWATER TANK xxx - ROOF CATCHMENT AREA TO DOWNPIPE
SP	DENOTES SPREADER PIPE TO ROOF BELOW
FALL	SURFACE TO FALL IN DIRECTION INDICATED BY ARROW (1% MINIMUM FALL OR TO NCC REQUIREMENTS)
STEP	FLOOR STEP DOWN IN ACCORDANCE WITH NCC REQUIREMENTS (ARCHITECT TO SPECIFY)
	GRAVITY LINE PROVIDE 1% (MIN) FALL IN DIRECTION INDICATED, UNO.
	CHARGED LINE. PROVIDE 100Ø (MIN) SEWER GRADE PIPE (UNO) WITH BLEED LINE LOCATED AT CHARGED SYSTEM LOW POINT.
GDE	150 (W) CAST INSITU GRATED DRAIN
	100mm Ø uPVC STORMWATER PIPELINE, UNO
	EXISTING 100mm Ø uPVC STORMWATER PIPELINE, UNO
	400 (W) x 50 (D) SWALE TO DIVERT RUNOFF



NOTE: THE BUILDER IS TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER IF EXISTING STORMWATER PIPES ARE TO BE RE-USED. THE PIPES SHOULD BE IN GOOD CONDITION OR REPAIRED AS REQUIRED.

NOTE: SUBSOIL DRAINAGE IS NOT SHOWN ON THIS DRAWING. SUBSOIL DRAINAGE IS TO BE PROVIDED IN ACCORDANCE WITH AS.3500.3, DCP, AND NCC REQUIREMENTS

NOTE: ALL DRAINAGE LINES SHOWN ARE INDICATIVE ONLY. LOCATION MAY VARY ON SITE DUE TO CONSTRAINTS

NOTE: ALL EXISTING SURFACE DRAINAGE TO BE RETAINED IS TO BE UPGRADED BY THE BUILDER IN ACCORDANCE WTIH AS3500.3

THIS DOCUMENT IS TO BE PRINTED IN COLOUR

DIAL BEFORE YOU DIG NOTICE

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE

DEVELOPERS & EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.

CARELESS DIGGING CAN:
- CAUSE DEATH OR SERIOUS INJURY TO WORKERS AND THE GENERAL PUBLIC
- INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND COMMUNICATIONS
- LEAD TO CRIMINAL PROSECUTION AND DAMAGES CLAIMS
- CAUSE EXPENSIVE FINANCIAL LOSSES TO BUSINESS
- CUT OFF EMERGENCY SERVICES
- DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED

MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. – TEL. 1100

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1100 BEFORE YOU DIG

SITE DRAINAGE AND EASEMENT PLAN

SCALE 1:200

	AMENDMENT	DATE
B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23

Client: TIM & ISABEL VAN REES

Architect / Designer: RAMA ARCHITECTS
PO BOX: 1510, DEE WHY
ABN - 90 645 409 801

APPROVED CONSULTING ENGINEERS

Project: 10 DELWOOD CLOSE
MONA VALE

Title: SITE
DRAINAGE PLAN

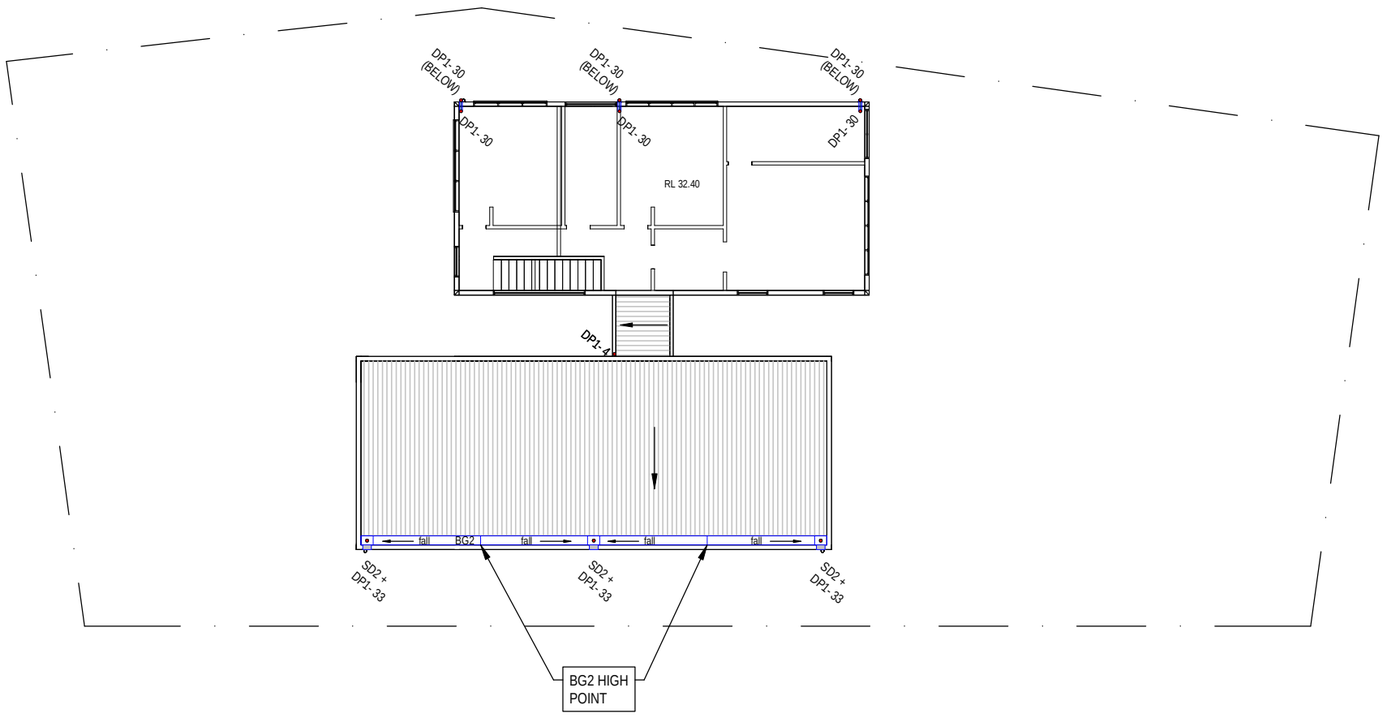
Designed	Checked	Approved	Scale
CH	CH	CH	1 : 200

Drawing number	Job number	Revision
SW02	2023108	B

04/12/23

LEGEND	
BG1	300 (W) x 110 (MIN DEPTH) BOX GUTTER. REFER DETAILS
SD1	300 (W) x 400 (L) x 80 (D) SUMP WITH 300 (W) x 70 (D) OVERFLOW. REFER DETAILS
BG2	300 (W) x 120 (MIN DEPTH) BOX GUTTER. REFER DETAILS
SD2	300 (W) x 400 (L) x 80 (D) SUMP WITH 300 (W) x 70 (D) OVERFLOW. REFER DETAILS
BG3	300 (W) x 100 (MIN DEPTH) BOX GUTTER. REFER DETAILS
SD3	300 (W) x 400 (L) x 80 (D) SUMP WITH 300 (W) x 70 (D) OVERFLOW. REFER DETAILS
DP1 - xxx	DP1 - 100mm Ø DOWNPIPE TO RAINWATER TANK xxx - ROOF CATCHMENT AREA TO DOWNPIPE
SP	DENOTES SPREADER PIPE TO ROOF BELOW
	ARROW INDICATES DIRECTION OF ROOF SLOPE. REFER ARCHITECTURAL PLANS FOR ROOF PITCH
FALL	SURFACE TO FALL IN DIRECTION INDICATED BY ARROW (1% MINIMUM FALL)
	100mm Ø uPVC STORMWATER PIPELINE, UNO

THIS DOCUMENT IS TO BE PRINTED IN COLOUR



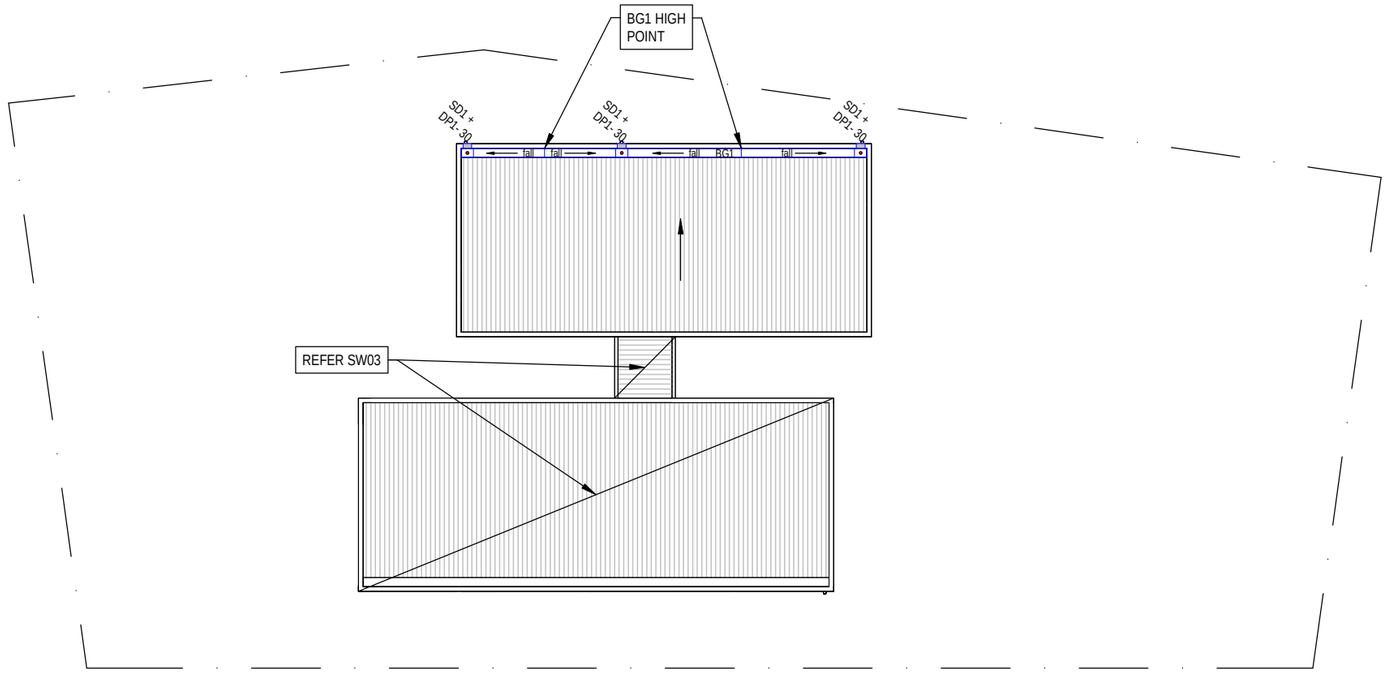
LOWER ROOF - DRAINAGE PLAN

SCALE 1:200

			Client: TIM & ISABEL VAN REES		Project: 10 DELWOOD CLOSE MONA VALE		Designed: CH	04/12/23
			Architect / Designer: RAMA ARCHITECTS			Checked: CH	Approved: CH	Scale: 1 : 200
B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24	PO BOX: 1510, DEE WHY ABN - 90 645 409 801	APPROVED CONSULTING ENGINEERS	Title: LOWER ROOF DRAINAGE PLAN	Drawing number: SW03	Job number: 2023108	Revision: B
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23						
	AMENDMENT	DATE						

LEGEND	
BG1	300 (W) x 110 (MIN DEPTH) BOX GUTTER. REFER DETAILS
SD1	300 (W) x 400 (L) x 80 (D) SUMP WITH 300 (W) x 70 (D) OVERFLOW. REFER DETAILS
BG2	300 (W) x 120 (MIN DEPTH) BOX GUTTER. REFER DETAILS
SD2	300 (W) x 400 (L) x 80 (D) SUMP WITH 300 (W) x 70 (D) OVERFLOW. REFER DETAILS
BG3	300 (W) x 100 (MIN DEPTH) BOX GUTTER. REFER DETAILS
SD3	300 (W) x 400 (L) x 80 (D) SUMP WITH 300 (W) x 70 (D) OVERFLOW. REFER DETAILS
DP1 - xxx	DP1 - 100mm Ø DOWNPIPE TO RAINWATER TANK xxx - ROOF CATCHMENT AREA TO DOWNPIPE
SP	DENOTES SPREADER PIPE TO ROOF BELOW
	ARROW INDICATES DIRECTION OF ROOF SLOPE. REFER ARCHITECTURAL PLANS FOR ROOF PITCH
FALL	SURFACE TO FALL IN DIRECTION INDICATED BY ARROW (1% MINIMUM FALL)

THIS DOCUMENT IS TO BE PRINTED IN COLOUR



ROOF - DRAINAGE PLAN

SCALE 1:200

B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23
	AMENDMENT	DATE

Client: TIM & ISABEL VAN REES

Architect / Designer: RAMA ARCHITECTS

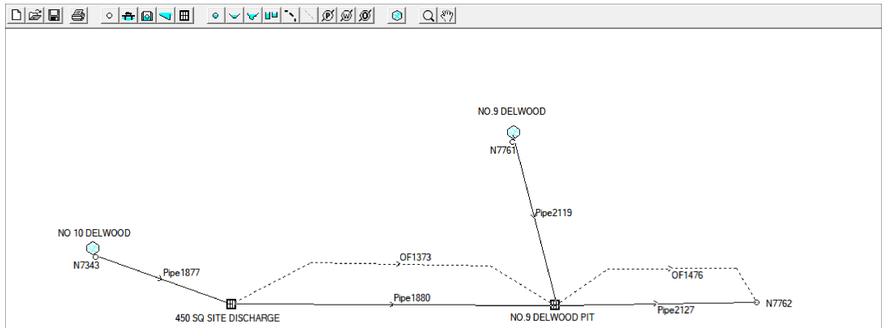
PO BOX: 1510, DEE WHY
ABN - 90 645 409 801

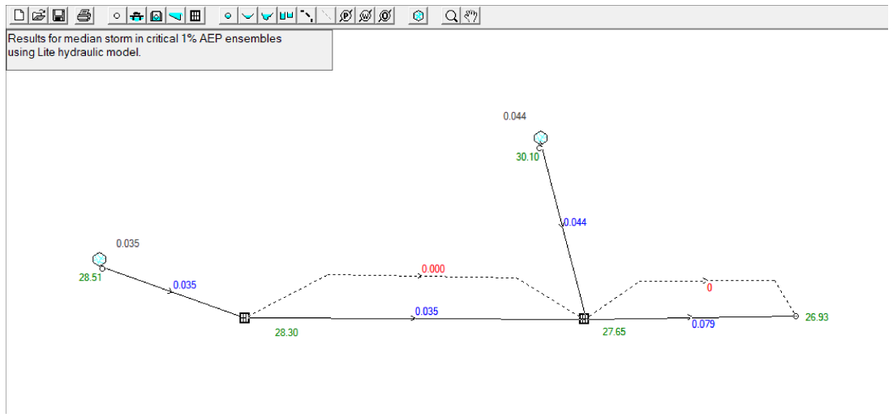
APPROVED CONSULTING ENGINEERS

Project: 10 DELWOOD CLOSE
MONA VALE

Title: ROOF
DRAINAGE PLAN

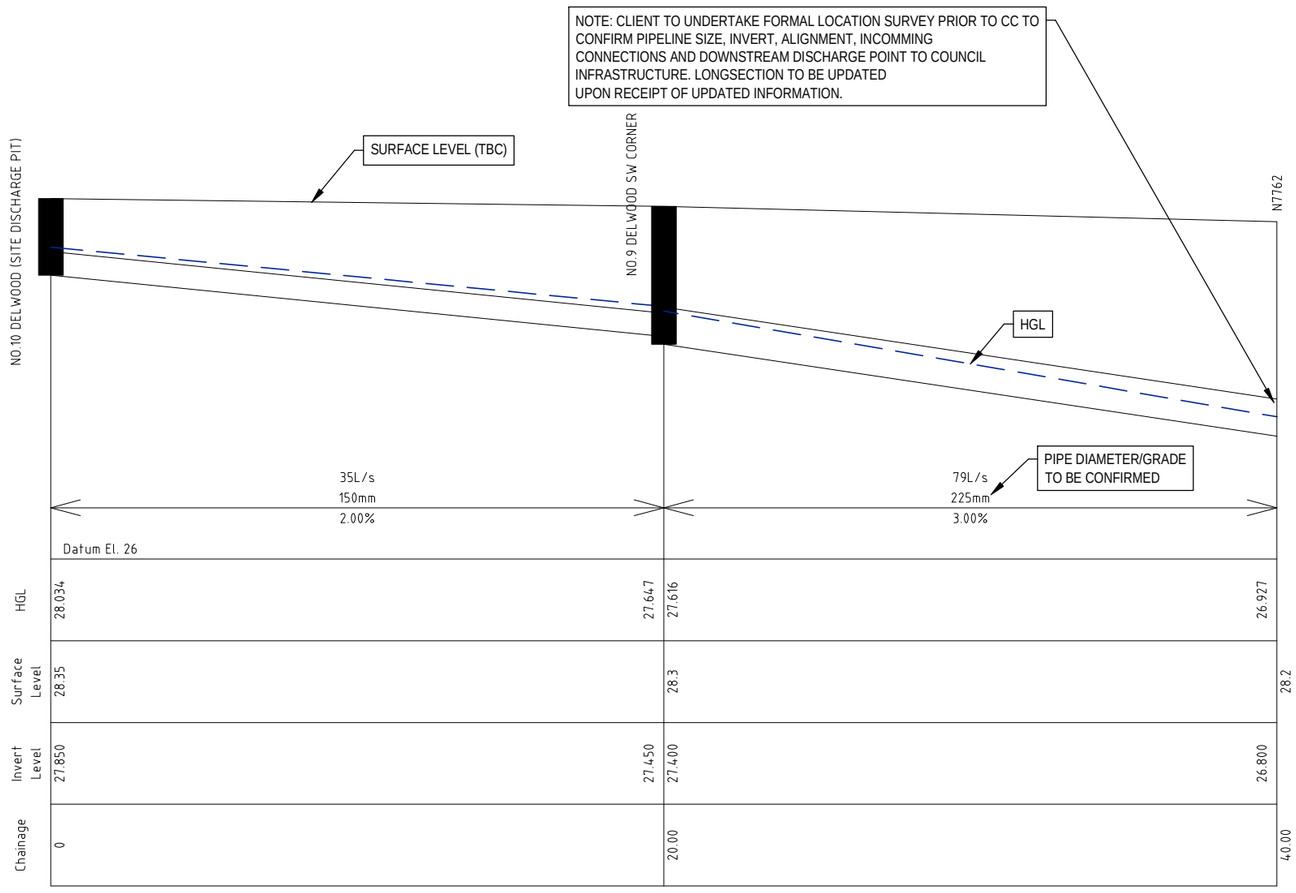
	Designed: CH	04/12/23
Checked: CH	Approved: CH	Scale: 1 : 200
Drawing number: SW04	Job number: 2023108	Revision: B





DRAINS RESULTS SCREENSHOT

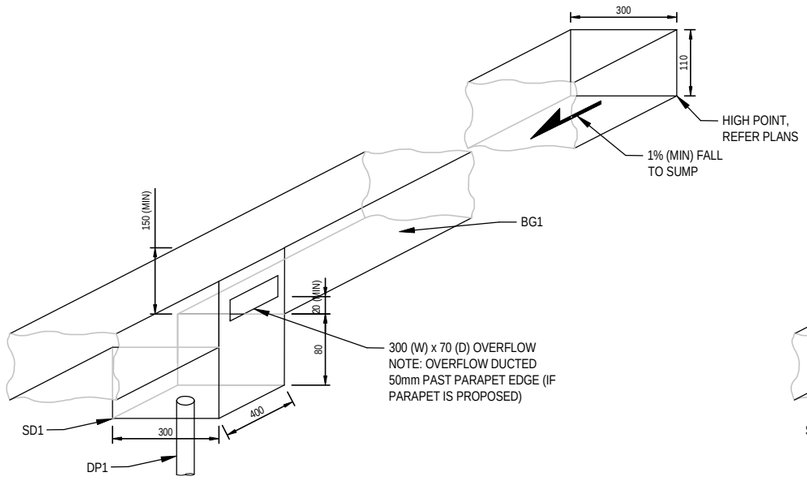
SCALE = NTS



PRELIMINARY LONGSECTION PLAN

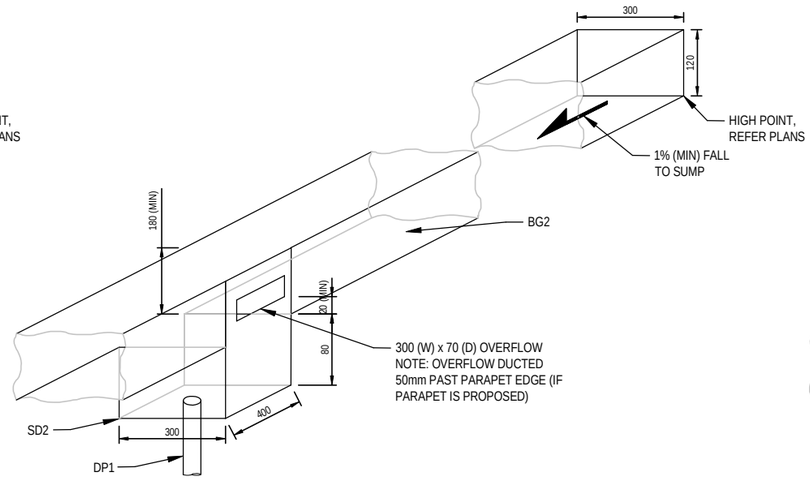
NOT TO SCALE

			Client: TIM & ISABEL VAN REES	APPROVED CONSULTING ENGINEERS	Project: 10 DELWOOD CLOSE MONA VALE		Designed: CH	04/12/23
			Architect / Designer: RAMA ARCHITECTS			Checked: CH	Approved: CH	Scale: 1 : 200
B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24	PO BOX: 1510, DEE WHY		Title: EASEMENT LONGSECTION	Drawing number: SW05	Job number: 2023108	Revision: B
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23	ABN - 90 645 409 801					
	AMENDMENT	DATE						



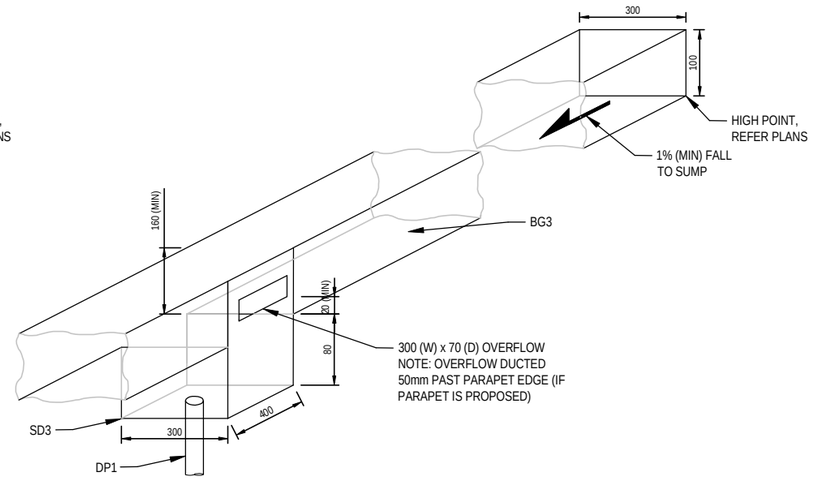
BG1 / SD1 - TYPICAL DETAIL

SCALE = NTS



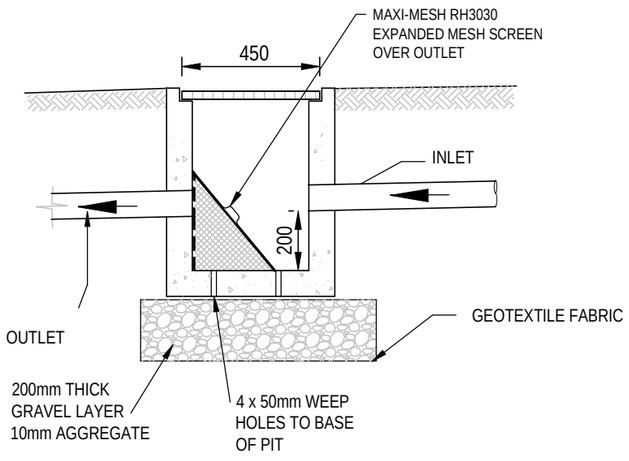
BG2 / SD2 - TYPICAL DETAIL

SCALE = NTS



BG3 / SD3 - TYPICAL DETAIL

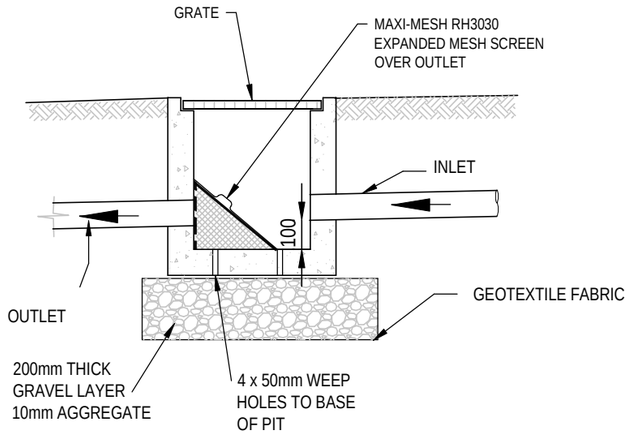
SCALE = NTS



NOTE: PIT TO BE CLEANED AND MAINTAINED REGULARLY
TO MITIGATE BUILDUP OF SEDIMENT

TYPICAL 450 SQ SITE DISCHARGE PIT DETAIL

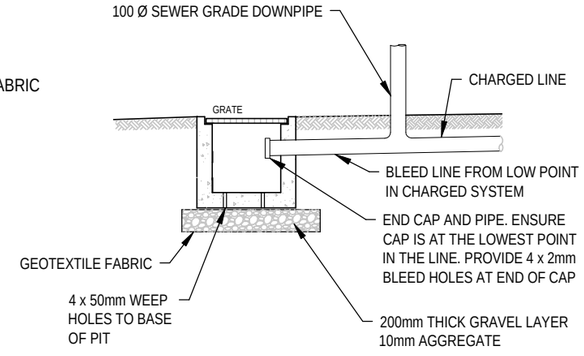
SCALE = 1:20



NOTE: PIT TO BE CLEANED AND MAINTAINED REGULARLY
TO MITIGATE BUILDUP OF SEDIMENT

TYPICAL PIT DETAIL

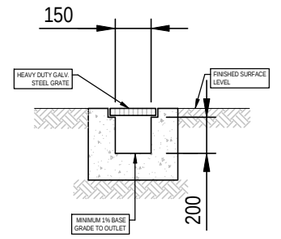
SCALE = 1:20



NOTE: END CAP TO BE CLEANED REGULARLY

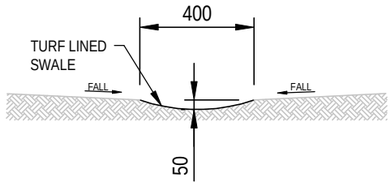
CLEAN-OUT PIT DETAIL

SCALE = NTS



GRATED DRAIN DETAIL (GDE)

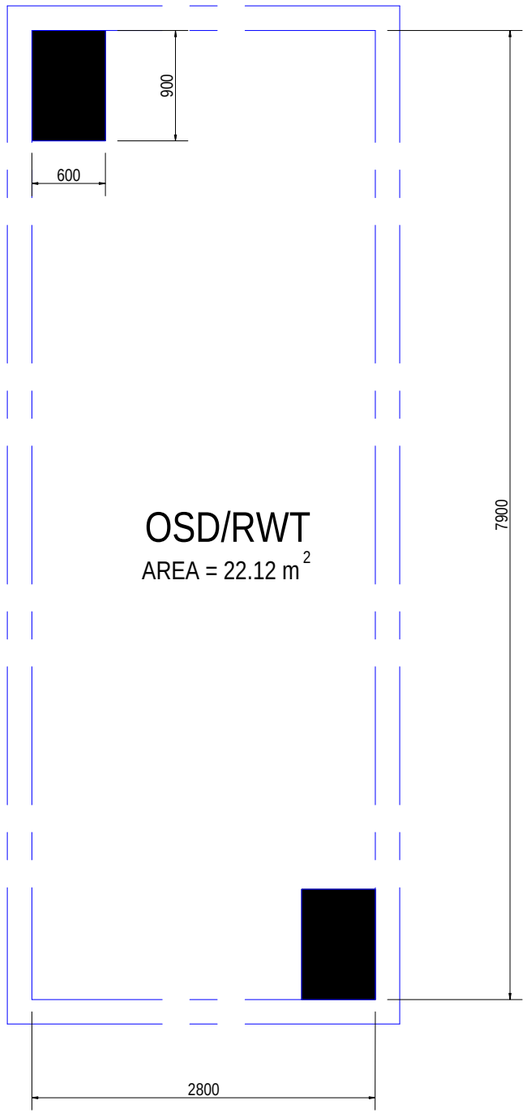
SCALE = NTS



400 WIDE CUT OFF SWALE

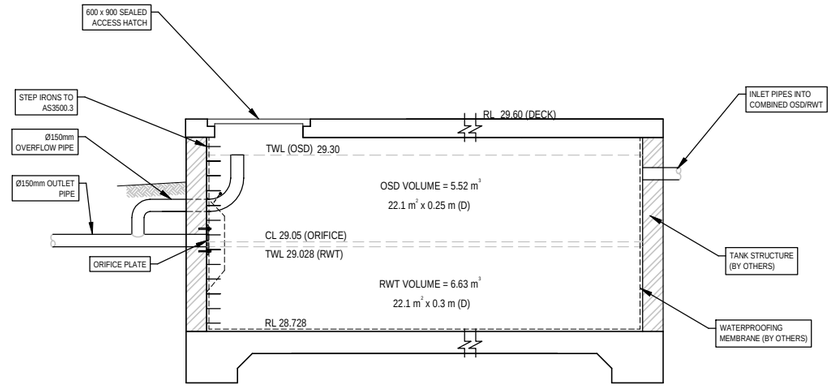
SCALE = NTS

			Client	TIM & ISABEL VAN REES		Designed CH	04/12/23
			Architect / Designer	RAMA ARCHITECTS	Project 10 DELWOOD CLOSE MONA VALE	Checked CH / Approved CH	Scale 1 : 200
B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24		PO BOX: 1510, DEE WHY			
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23		ABN - 90 645 409 801	Title DETAILS	Drawing number SW06	Job number 2023108 / Revision B
	AMENDMENT	DATE		APPROVED CONSULTING ENGINEERS			



OSD - TANK PLAN

SCALE = 1:50



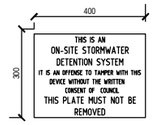
COMBINED RAINWATER / ON SITE DETENTION TANK DETAIL

SCALE = NOT TO SCALE

NOTE: ORIFICE PLATE SIZE TO BE CONFIRMED PRIOR TO CONSTRUCTION

ORIFICE PLATE DETAIL

SCALE = NTS



OSD TANK PLAQUE

SCALE = N.T.S.

LEGEND:
BLACK ON YELLOW BACKGROUND

SIGN FOR RWT AND OUTLETS

SCALE = N.T.S.

B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23
	AMENDMENT	DATE

Client: TIM & ISABEL VAN REES

Architect / Designer: RAMA ARCHITECTS

PO BOX: 1510, DEE WHY
ABN - 90 645 409 801

ΛPPROVED CONSULTING ENGINEERS

Project: 10 DELWOOD CLOSE
MONA VALE

Title: DETAILS

Designed	Checked	Approved	Scale
CH	CH	CH	1 : 200

Drawing number	Job number	Revision
SW07	2023108	B

BASEMENT PUMPING WELL

PROVIDE TWO CENTRIFUGAL DRAINAGE SUMP PUMPS WITH SINGLE-PHASE ELECTRIC MOTOR CAPABLE OF DISCHARGING 5.0L/S EACH AGAINST A TOTAL HEAD OF (XXXM) WITH 10 STARTS PER HOUR MAXIMUM. CLASS 1 ZONE 2 CERTIFIED PUMPS FOR HAZARDOUS AREAS ARE REQUIRED SWITCHING SHALL PROVIDE FOR ALTERNATIVE OPERATION OF THE PUMPS, HIGH LEVEL SWITCH ON/OFF, 2ND PUMP, AND A RED LIGHT ALARM PLACED PERMANENTLY IN THE BASEMENT AREA ACTIVATED BY HIGH LEVEL SWITCH ON.

GARAGE HOLDING TANK

AREA DRAINING TO THE BASEMENT PUMPING = 5 m^2
STORAGE MUST BE PROVIDED FOR A BLACKOUT OF AT LEAST 2HRS, THE 10 YEAR ARI STORM RUNOFF IS:

Q = F x C x I x A
= 1/3600 x 1 x 40.4 x 5
= 0.06 L/s

VOLUME ACCUMULATED (10 YEAR ARI, 2 HOUR STORM):

$V_{10/120}$ = (0.06L/s x 2hrs x 3600s)/1000
= 0.5 m^3

VOLUME PUMPED IN 30 MINS:

PC_{30} = (5.0L/s x 0.5hrs x 3600s)/1000
= 9.00 m^3

VOLUME PUMPED IN 5 MINS:

PC_5 = (5.0L/s x 0.083hrs x 3600s)/1000
= 1.50 m^3

DESIGN WET WELL STORAGE CAPACITY
= $V_{10/120}$- PC_{30} = 0 m^3

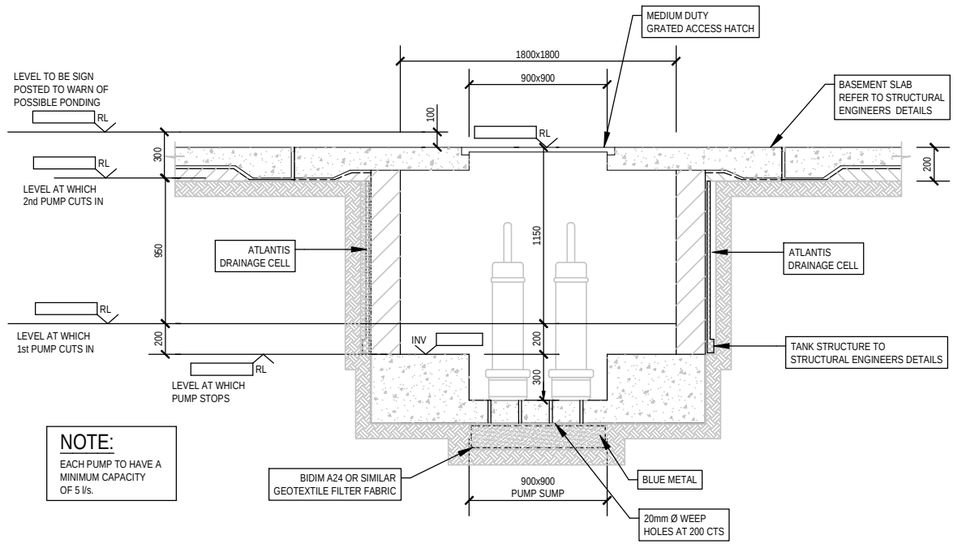
MINIMUM VOLUME ADOPTED : 3.0 m^3

WARNING

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

NOTE

1. EACH PUMP TO HAVE A MINIMUM CAPACITY OF 5 L/s.
2. THE PUMPS SHALL OPERATE ALTERNATELY TO RL INDICATED ON DETAILS, WITH BOTH PUMPS OPERATING IN UNISON AT RL INDICATED ON DETAILS, (WITH ALARM) IF THE WATER LEVEL CONTINUES TO RISE ABOVE THE MAXIMUM WATER LEVEL AFTER THE FIRST PUMP HAS COME ON.
3. ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-3.2:1998, SECTION 9 PUMPED SYSTEMS
4. PUMPS SHALL BE IN DUPLICATE. THE MAXIMUM CAPACITY OF EACH PUMP SHALL BE SELECTED SO THAT THE CAPACITY OF THE SYSTEM RECEIVING THE DISCHARGE IS NOT EXCEEDED. THE PUMP CONTROLS SHALL BE SET UP TO ENABLE ALTERNATE PUMP OPERATION AT EACH START. IN THE EVENT THAT A PUMP FAILS TO OPERATE WHEN THE WATER LEVEL IN THE WET WELL REACHES THE PUMP START, THE OTHER PUMP SHALL BE ACTIVATED AND A VISIBLE ALARM INITIATED. IN THE EVENT THAT BOTH PUMPS FAIL TO OPERATE AN AUDIBLE ALARM SHALL BE INITIATED.
5. PUMPING EQUIPMENT SHALL BE SECURELY FIXED TO THE WET WELL USING CORROSION RESISTANT FIXINGS.
6. PUMPS SHALL BE FITTED WITH A GATE VALVE AND NON-RETURN VALVE OF THE DELIVERY SIDE OF EACH PUMP.
7. PUMPS SHALL HAVE FLANGES OR UNIONS INSTALLED TO FACILITATE REMOVAL.
8. PUMPS SHALL BE CONTROLLED SO AS TO LIMIT THE NUMBER OF STARTS PER HOUR TO WITHIN THE CAPACITY OF THE ELECTRICAL MOTORS AND EQUIPMENT, AND SHALL, AS FAR AS PRACTICABLE, EMPTY THE CONTENTS OF THE WET WELL AT EACH OPERATION.
9. THE REQUIRED PUMPING RATE SHALL BE CALCULATED BASED ON AN ASSESSMENT OF THE EXPECTED INFLOW AND, WHERE APPROPRIATE, THE ALLOWABLE DISCHARGE RATE.
10. NO ADDITIONAL SURFACE RUNOFF IS TO BE DIRECTED TO THE PUMP OUT PIT.



No. 4 EMERGENCY PUMP OUT PIT DETAIL

SCALE = 1 : 20

			Client	TIM & ISABEL VAN REES		Project	10 DELWOOD CLOSE MONA VALE		Designed CH	04/12/23
								Checked CH	Approved CH	Scale 1 : 200
B	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - DRAINAGE UPDATED	08/02/24	Architect / Designer	RAMA ARCHITECTS	APPROVED CONSULTING ENGINEERS	Title	DETAILS	Drawing number SW08	Job number 2023108	Revision B
A	PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION	04/12/23		PO BOX: 1510, DEE WHY ABN - 90 645 409 801						
	AMENDMENT	DATE								