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.

LEGEND

DP1 - xxx	DP1 - 100mm Ø DOWNPIPE TO BOUNDARY PIT xxx - ROOF CATCHMENT AREA TO DOWNPIPE
SP	100mm Ø DOWNPIPE SPREADER TO LOWER ROOF
	100mm Ø uPVC STORMWATER PIPELINE, UNO
GDE	150 (W) x 200 (D) GRATED DRAIN
	GRAVITY LINE PROVIDE 1% (MIN) FALL, UNO.
	CHARGED LINE PROVIDE SEWER GRADE PIPE, UNO
BG1	300 WIDE x 140 (DEEP AT HIGH POINT) BOX GUTTER WITH 1% (MIN) FALL TO SUMP.
SD1	400 (L) x 300 (W) x 150 (D) SUMP + 300 (W) x 75 (D) OVERFLOW IN ACCORDANCE WITH AS3500.3

SITE INFORMATION SUMMARY

COUNCIL	NORTHERN BEACHES (WARRINGAH)
SITE AREA	583.1 m^2
EXISTING IMPERVIOUS AREA	149 m^2 (26 %)
PROPOSED IMPERVIOUS AREA	310 m^2 (53 %)
INCREASE	161 m^2

OSD CALCULATION SUMMARY

PRE DEVELOPED RUNOFF (GREENFIELD)	
5 YR	14 l/s
100 YR	30 l/s
POST DEVELOPED RUNOFF	
5 YR	7 l/s (3 l/s FROM OSD)
100 YR	14 l/s (3 l/s FROM OSD)
OSD TANK BYPASS	248 m^2 (0 %)
ORIFICE	40 mm
DESIGN METHOD	DRAINS (ILSAX)

DETENTION / RETENTION REQUIREMENTS

OSD STORAGE REQUIRED (DRAINS)	14.0 m^3
OSD STORAGE PROVIDED	15.0 m^3

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

www.dialbeforeyoudig.com.au 1100 BEFORE YOU DIG

REVISION	AMENDMENT	DATE
-	ISSUE FOR DA APPROVAL	18/9/2020

MIKE NIKOTIN
Architect
RAPID PLANS

GREENWOOD CONSULTING ENGINEERS
2/25 Seabeach Avenue, Mona Vale
ABN - 90 625 916 341

Project: 3 CURL CURL PARADE CURL CURL

EG	Designed EG	18/09/2020
Checked EG	Approved EG	Scale 1 : 200

Title: GENERAL NOTES

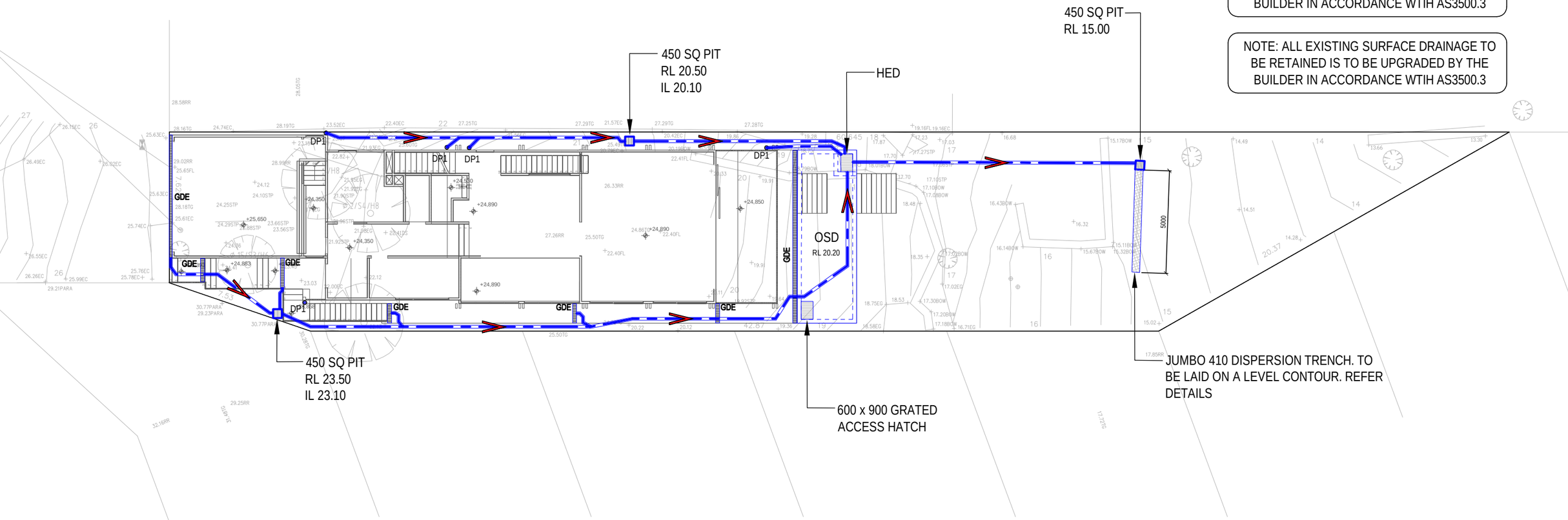
Drawing number	Job number	Revision
SW01	2020127	-

NOTE: DESIGN IS BASED ON EASEMENT REFUSAL. SIGNED REFUSAL LETTERS FROM DOWNSTREAM NEIGHBOURS ARE TO BE SUBMITTED ALONG WITH THESE DRAWINGS

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

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

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



SITE DRAINAGE PLAN

SCALE 1:200

ISSUE FOR DA
NOT FOR CONSTRUCTION

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-	ISSUE FOR DA APPROVAL	18/9/2020

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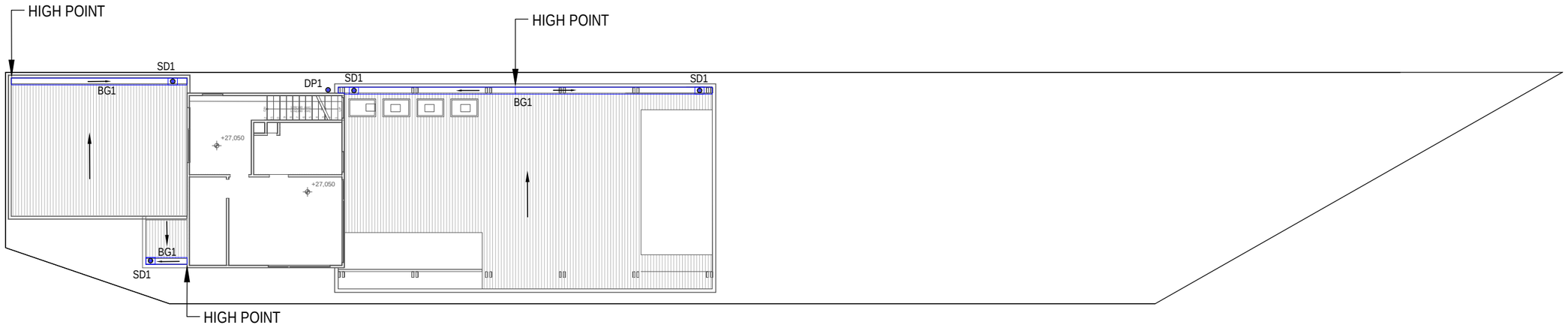
Project: 3 CURL CURL PARADE CURL CURL

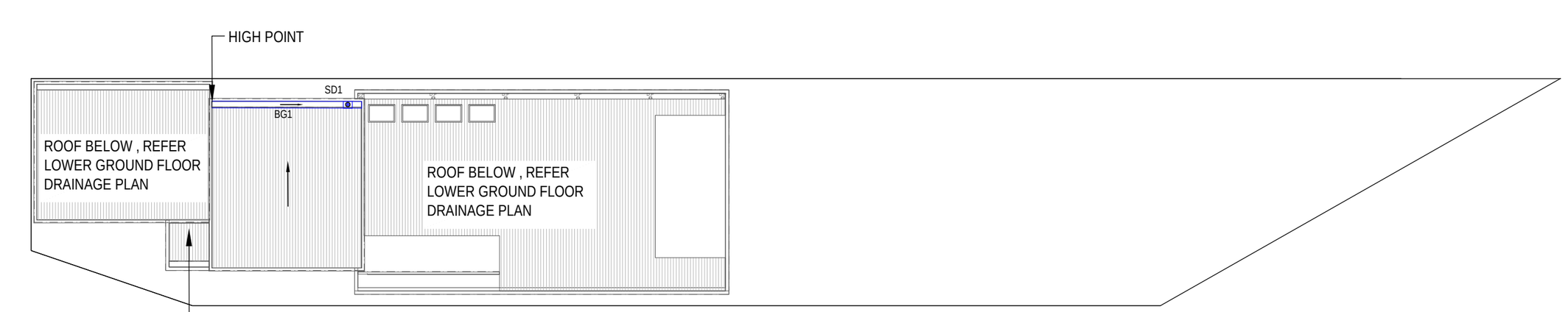
Title: SITE DRAINAGE PLAN

EG	Designed EG	18/09/2020	
Checked EG	Approved EG	Scale 1 : 200	
Drawing number SW0 2	Job number 2020127	Revision -	



LOWER ROOF DRAINAGE PLAN

SCALE 1:200



ROOF DRAINAGE PLAN

SCALE 1:200

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2/25 Seabeach Avenue, Mona Vale
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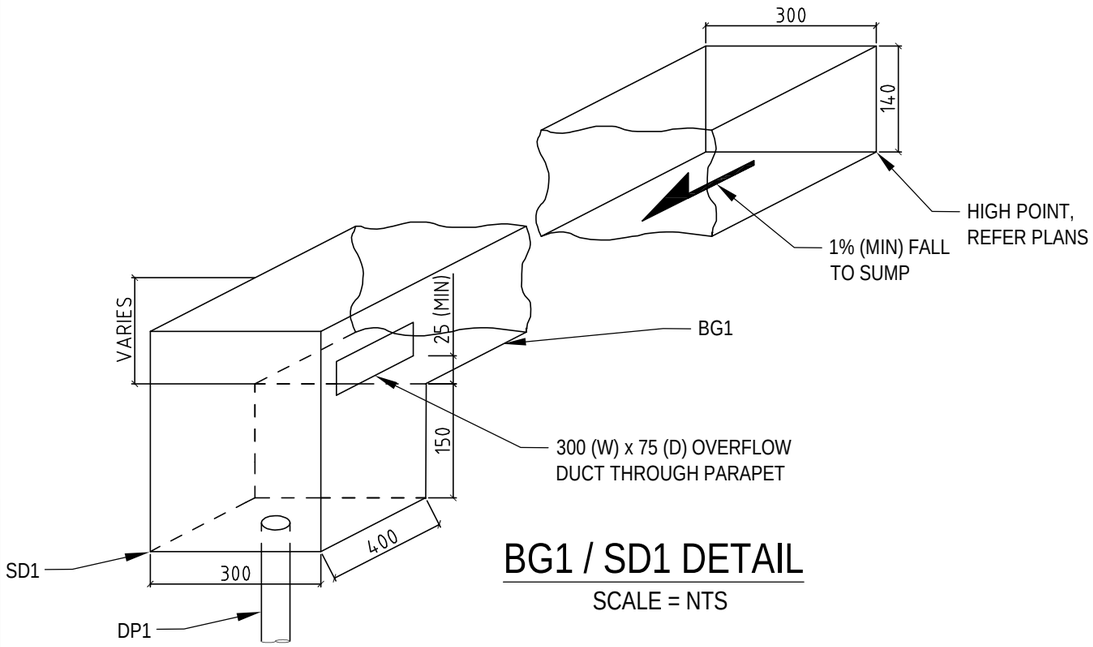
Project
3 CURL CURL PARADE
CURL CURL

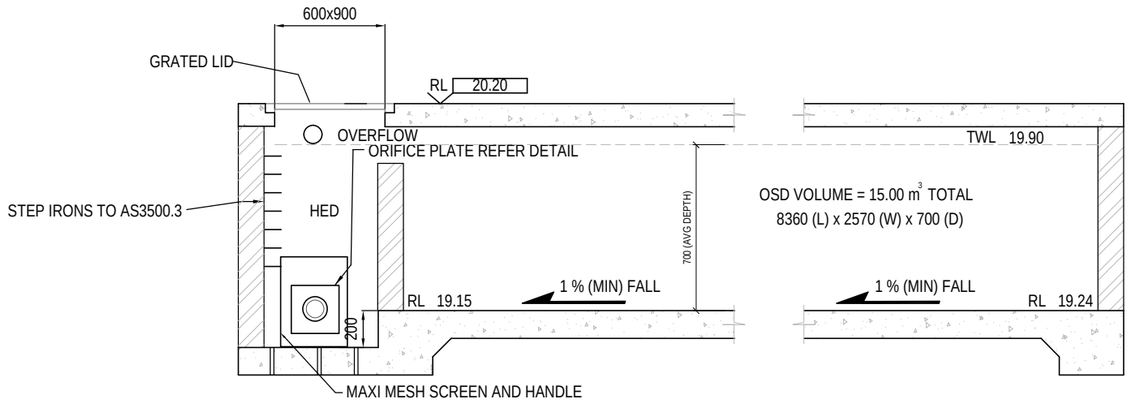
Title
ROOF
DRAINAGE PLAN

EG	Designed EG	18/09/2020	
Checked EG	Approved EG	Scale 1 : 200	
Drawing number SW03	Job number 2020127	Revision -	



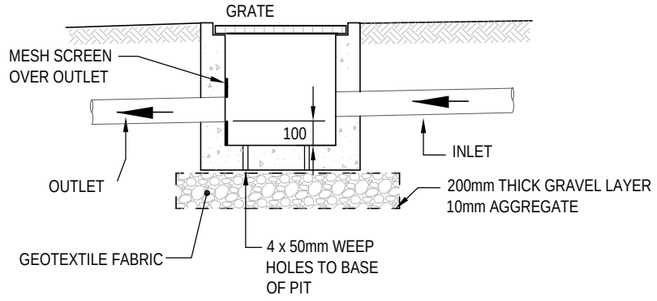
BG1 / SD1 DETAIL

SCALE = NTS



OSD TANK DETAIL

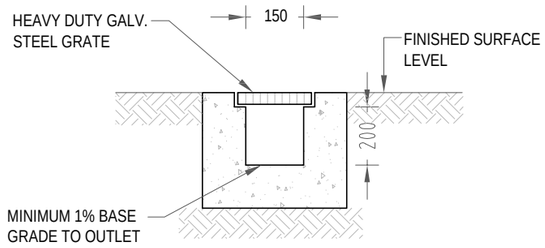
SCALE = NTS



ALTERNATIVE POLYPROPYLENE PIT BY MANUFACTURER

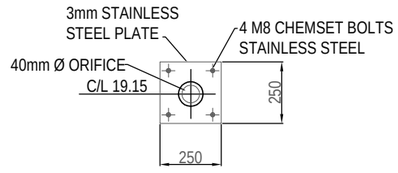
PIT DETAIL

SCALE = NTS



GRATED DRAIN DETAIL (GDE)

SCALE = NTS



NOTE: ORIFICE PLATE SIZE TO BE
CONFIRMED PRIOR TO CONSTRUCTION

ORIFICE PLATE DETAIL

SCALE = NTS

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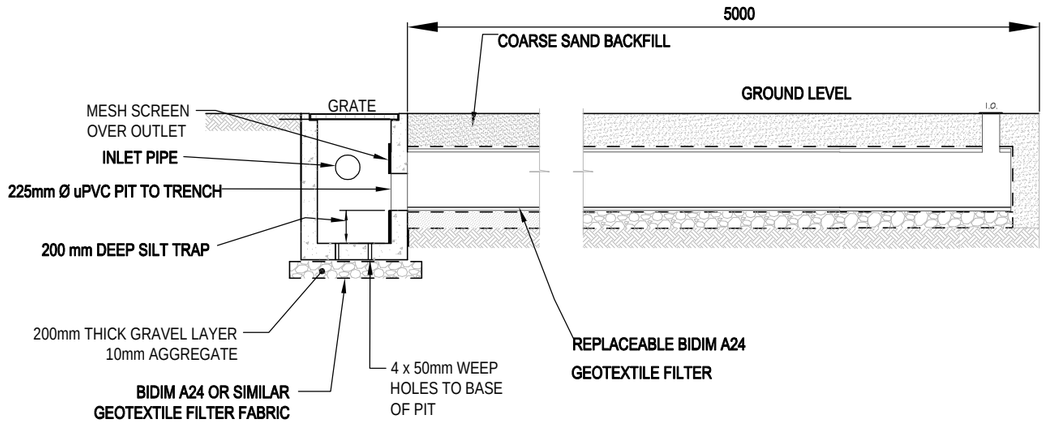
ABN - 90 625 916 341

Project: 3 CURL CURL PARADE CURL CURL
Title: DETAILS

EG	Designed EG	18/09/2020	
Checked EG	Approved EG	Scale 1 : 200	
Drawing number SW0 4	Job number 2020127	Revision -	

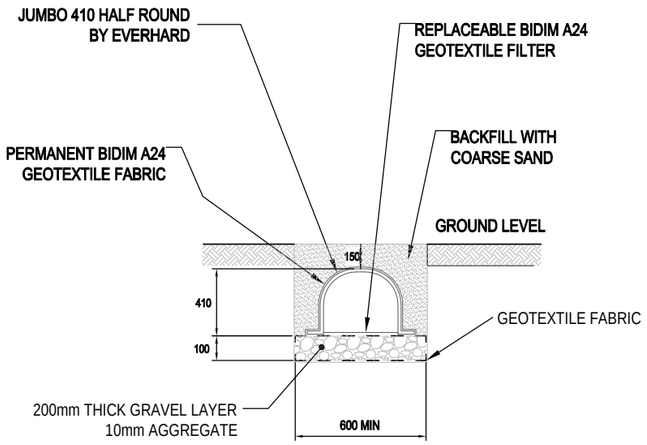
NOTE: INFILTRATION / DISPERSION TRENCH

2. TRENCH TO BE LAID ON A LEVEL CONTOUR.
3. GROUND LEVEL ABOVE TRENCH MUST BE LEVEL SO AS TO EVENLY DISPERSE WATER DOWN HILL OF THE TRENCH
4. IF ROCK IS ENCOUNTED DURING EXCAVATION FOR TRENCH NOTIFY ENGINEER FOR ALTERNATE DETAIL.



LONGITUDINAL SECTION THROUGH DISPERSION TRENCH

SCALE = NTS



CROSS SECTION THROUGH DISPERSION TRENCH

SCALE = NTS

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2/25 Seabeach Avenue, Mona Vale
ABN - 90 625 916 341

Project: 3 CURL CURL PARADE CURL CURL

Title: DETAILS

EG	Designed EG	18/09/2020
Checked EG	Approved EG	Scale 1 : 200

Drawing number	Job number	Revision
SW05	2020127	-