# Stormwater Concept Drainage Plan Proposed Additions & Alterations No.52 Pitt Road, North Curl Curl

# **Drainage Design Notes:**

- All stormwater pipes are to be P.V.C. sewer grade and shall be installed in accordance with AS3500 and council requirements.
- The roofwater drainage system has been designed for 1 in 20 years ARI 5 mins duration.
- All downpipes are to be 100 mm diameter or approved equivalent and sealed and glued joints.
- Leaf gutter guard or downpipe guard is recommended to be installed on all gutters/DP to minimize debris from entering the rainwater tank system.
- All DP and DPS shall be installed according to AS3500.3:2018. Maximum roof area per downpipe for the nominated gutter site to be determined using manufactures specification with overflow provisions by installers.
- All stormwater drainage lines to be at minimum 1% grade unless noted otherwise on plan.
- General layout only, the builder is to verify all levels on the site prior to commencing construction.
- General layout only, builder is to verify all levels on the site prior to commencing construction works.All levels are in m ADH.
- Builder to ensure all drainage areas including balconies, parapets to have overflow mechanism in case of blockage with adequate overflow section through planters, parapets etc.
- All pits within the property area to befitted with WELDLOK or approved equivalent grates in accordance to AS3996;
  - Light duty grate for landscaped area
  - -Heavy duty grate where subjected to vehicular crossing.
- All fences shall be kept at least 100mm above the ground level to facilitate the free passage for stormwater overland flow.
- Minimum Pipe cover shall be as per council guidelines and as follows:

Minimum Cover Location

-Not Subject to Vehicle Loading 100mm Single Residential

300mm All Other Developments

450mm Where not in a Road

-Subject to Vehicle Loading

600mm

-Under a Sealed Road

750mm

-Unsealed Road

-Paved Driveway

100mm Plus Depth of Concrete

Please refer AS2032 for installation of UPVC pipes for further information.

If the proposed drainage system is designed to connect to the council's existing drainage system, it is advised that the 'Work Permit' is to be obtained from the respective council before commencing any works on council's property.

#### STORMWATER DESIGN **Amendment** Rev **Date Proposed Additions & Alterations** No. 52 Pitt Road, N Curl curl **LGA: Northern Beaches Council**



## **Rainwater Tank Notes:**

- The system to be installed with the following considerations:
  - A 'First Flush' diversion to remove roof contaminants,
  - Adequate screening to prevent mosquito breeding and entry of animal or floating matter.
- Tank to be plumbed to top-up the potable water supply during dry period when the tank is 80% empty.
- No direct cross-connection with the Sydney Water potable supply and and an air gap maintained above the overflow in the tank.
- A sign to be installed stating "Not for human consumption".
- Rain water tank to be connected as per BASIX requirements.
- Rainwater tank to be installed by a licensed plumber in accordance with AS3500 National Plumbing and Drainage Code, HB230 Rainwater Tank Design and Installation Handbook, other relevant codes and manufacture's specifications

Only roof drainage pipeline to be connected to Rainwater Tank.

#### **BMB ENGINEERS**

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Design by M Pradhan MIEAust CPEng NER

Date 08/03/2022

	Stormwater drainage line
	Roof water drainage line
©P	Downpipe
(PS)	Downpipe spreader
(FW)	Floor waste
	Grated pit
LL	Lid level
IL	Invert level
<b>→</b>	Overland flow path
	Grated trench drain

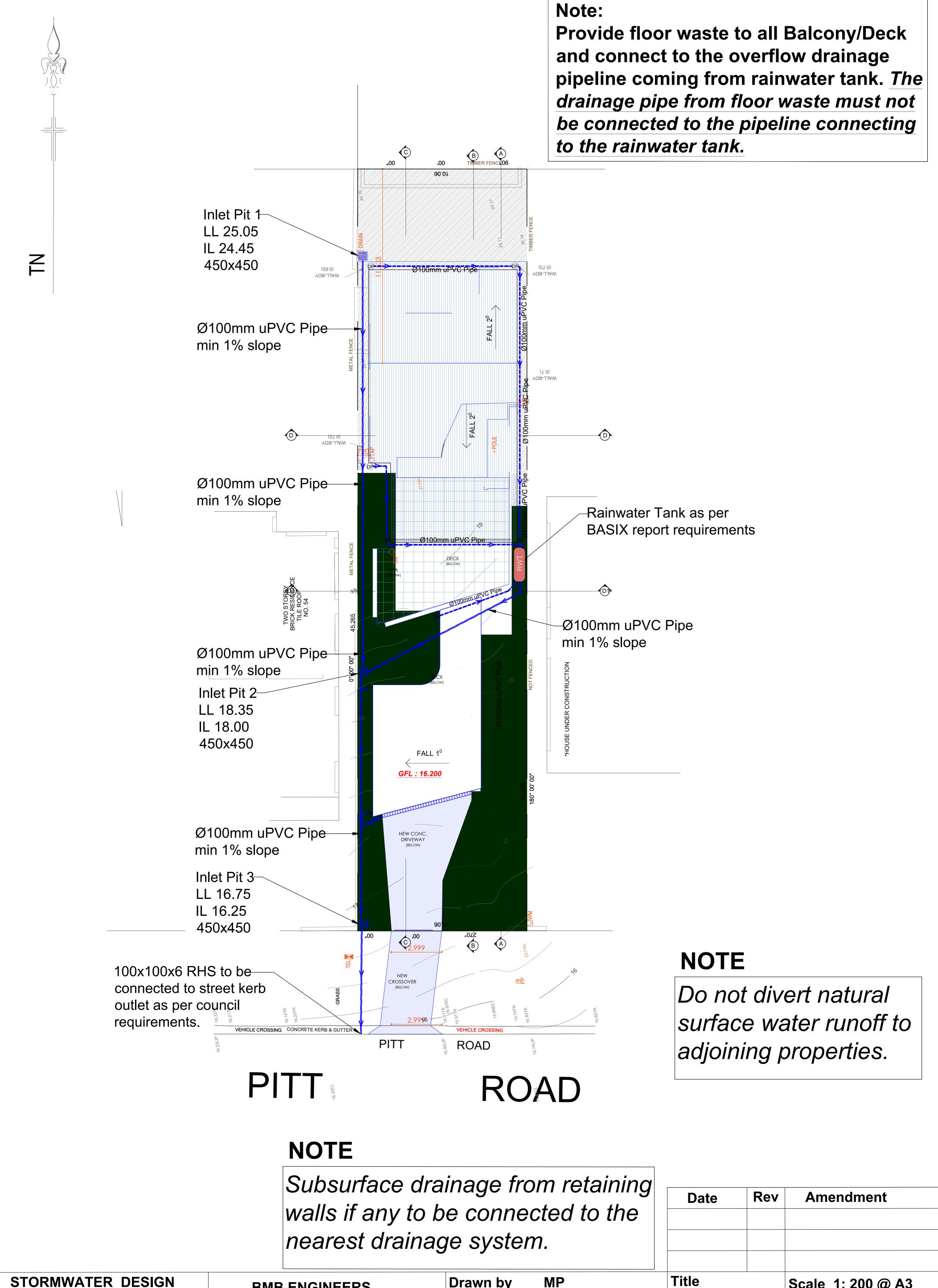
## **Title Stormwater General Notes**

SYMBOL

Dwg. No. SWD2057

**NOTATION** 

Sheet No. 1/3



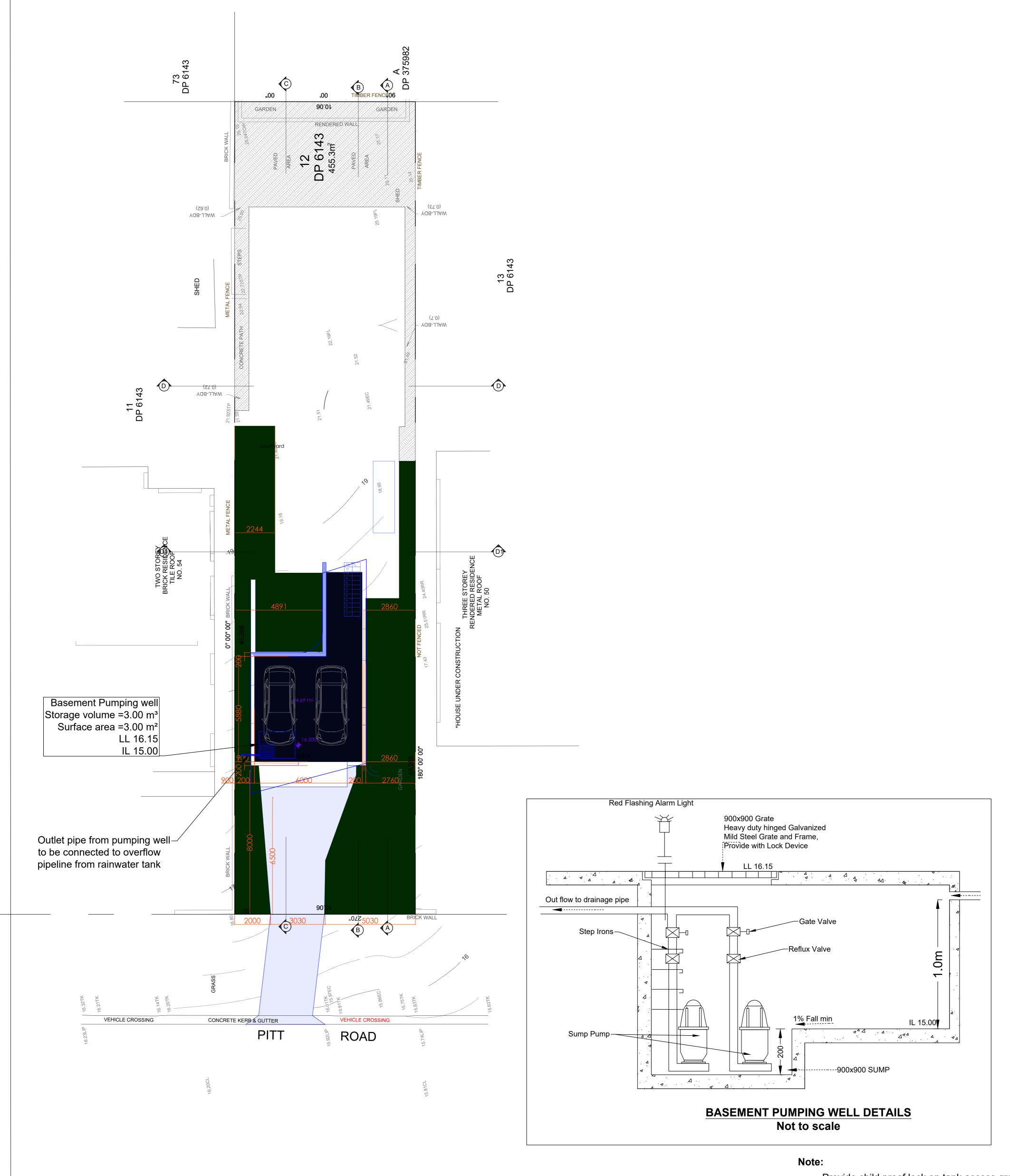
STORMWATER DESIGN Proposed Additions & Alterations civil, stormwater, structural & geotechnical engineers No. 52 Pitt Road, N Curl curl **LGA: Northern Beaches Council** 

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Drawn by **Design by M** Pradhan **MIEAust CPEng NER** Date 08/03/2022

Title		Scale 1: 200 @ A3
Stormwater	Dwg. No. SWD2057	
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### NOTE

Structure design of pumping well tanks to be prepared by the qualified structure engineer.

# Provide child proof lock on tank access grates.

#### To be constructed as per structural engineering requirements.

**Amendment** 

STORMWATER DESIGN	
<b>Proposed Additions &amp; Alterations</b>	(
No. 52 Pitt Road, N Curl curl	
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Date 08/03/2	2022

<u>Title</u>	Scale 1: 200 @ A3
Basement Stormwater	Dwg. No. SWD2057
Drainage Plan	Sheet: 3/3

Rev

**Date**