



### Drainage Notes.

1. All work to be carried out in accordance with Northern Beaches Council's standard specifications and to the satisfaction of Council's Engineer.
2. All pipes to be UPVC (sewer grade) unless noted otherwise.
3. Pipes not noted to be dimensioned  $\phi 100\text{mm}$  @ 1.0% min. grade.
4. All downpipes to be  $\phi 100\text{mm}$  or equivalent U.N.O. Gutters to be a minimum of 125mm x 75mm eaves gutters. All gutters to have a minimum fall of 1 in 200. All installation of gutters and downpipes to be in accordance with AS/NZS2179.1-2014 Specifications for rainwater goods, accessories and fasteners - Metal shape or sheet rainwater goods, and metal accessories and fasteners and AS2180-1986 Metal Rainwater Goods..
5. All pits in driveway areas to have heavy duty galvanized steel grates. All pits in landscaped areas to have light duty galvanized steel grates.
6. All pipes to be laid to the fall indicated in sand or gravel bedding.
7. Pipes to have a 1% minimum grade UNO by the pit inverts. Pipes to be VC class 'X' or UPVC class stormwater pipe to AS1254, AS1260, AS1273, AS1477, AS2179.2 and where exposed to direct sunlight to have adequate protection to UV radiation (ie painted) in accordance with AS2032. Sewer grade/galvanised pipes to be used where Council's policy or consent requires such.
8. The contractor is to verify the location and relocate as necessary all services on site especially across the footpath (eg Water, Gas, Electricity, Telecom and Sewer) should any services conflict with the stormwater system, contact the engineer immediately.
9. Grates to be removable type.
10. Where pit depth exceeds 1.2m, provide  $\phi 20\text{mm}$  galvanized steel step irons at 300mm cts. from top to bottom of the pit.
11. NOTE. The Hydraulic Engineer or Council Engineer is to be contacted to undertake an inspection of the internal drainage lines prior to back filling and at completion of the works in order to provide certification.

## Stormwater Drainage Plan

Scale 1:200

**NOTE:**  
The existing stormwater drainage lines are to be inspected and if the condition is satisfactory, they may be re-used for the new development where appropriate and practical.

	<b>Note:</b> The Contractor to verify all dimensions on site before commencing work. All figured dimensions given are to be taken in preference to scaling.	 Copyright © USE OF THESE DRAWINGS - The design and details shown on these drawings are applicable to this project only and may not be reproduced in whole or in part or be used for any other project or purpose without the written permission of WILLIAMS CONSULTING ENGINEERS AUSTRALIA P/L. with whom copyright resides.	Layout: Stormwater Drainage plan Architect: <small>THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED BY THE ENGINEER.</small>  DATE <b>22/10/2024</b>	<b>PROPOSED STORMWATER DRAINAGE at No. 8 WAKELY PLACE, FORESTVILLE NSW 2087 for MICHELLE &amp; DARREN BARTOLO</b>	DESIGN BY <b>R.D.W.</b> CHECKED  SCALES <b>1:200</b>	DETAILS BY <b>G.N.</b> DRAWING No. <b>2024/296/SW1</b> DATE <b>October 2024</b>
<b>AMENDMENTS</b> <b>PRINTED 23/10/2024</b>		 PAPER SIZE <b>A3</b> <small>PRINT SCALE A3/200</small>	DESIGN INFORMATION  PAPER SIZE <b>A3</b>	<b>WILLIAMS CONSULTING ENGINEERS AUSTRALIA P/L.</b> CONSULTING CIVIL AND STRUCTURAL ENGINEERS. <small>Unit 5/16 Layton Avenue, Blaxland 5000 Channel Highway, Gordon, TAS. 7150          Post Office Box 79, Blaxland, NSW. 2774 Post Office Box 79, Middleton, TAS. 7163          Email : williamsconsultingengsust@gmail.com Mobile Phone : 0425307531</small>		