

16A RUSKIN ROWE, AVALON BEACH
STORMWATER MANAGEMENT PLAN

DRAWING INDEX:

DR-000	LEGEND
DR-001	PIPE LAYOUTS
DR-002	ROOF LAYOUT & DETAILS
DR-003	RAINWATER TANK DETAILS

NOTES:

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
2. SITE LAYOUT BASED ON ARCHITECTURAL DESIGN BY RAMA ARCHITECTS (OCTOBER 2021).
3. LOCATION OF ALL SERVICES MUST BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
4. ALL STORMWATER DRAINAGE PIPES AND ASSOCIATED DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE RELEVANT STANDARDS, THE BUILDING CODE OF AUSTRALIA, MANUFACTURER'S RECOMMENDATIONS, SYDNEY CATCHMENT AUTHORITY RECOMMENDED PRACTICE, AND LOCAL COUNCIL, AS APPLICABLE.
5. ALL INVERT LEVELS PROVIDED ON THIS DRAWING ARE REDUCED TO AHD AND BASED ON INTERPOLATED SURFACE LEVELS AND SYSTEM REQUIREMENTS
6. WHERE POSSIBLE, PIPEWORK SHALL BE LOCATED EXTERNAL TO THE BUILDING.
7. DOWNPIPES AND STORMWATER LINES TO BE SEALED DN100 uPVC UNLESS OTHERWISE NOTED.
8. STORMWATER PIPES TO BE GRADED AT A MINIMUM 1% UNLESS NOTED OTHERWISE.
9. ALTERNATIVE GUTTER AND DOWNPIPE CONFIGURATION MAY BE INSTALLED PROVIDED IT COMPLIES WITH AS3500.
10. ALL PIPE AND CONDUITS TO BE MARKED IN ACCORDANCE WITH AS1345 – 1995.
11. TRENCHES AND SERVICE SEPARATIONS IN ACCORDANCE WITH AS/NZS 5601, AS/NZS 3500, AND AS/CA S009.

LEGEND:

	DOWNPIPE
	STORMWATER PIPE
	RAINWATER PIPE
	DRAINAGE PIT

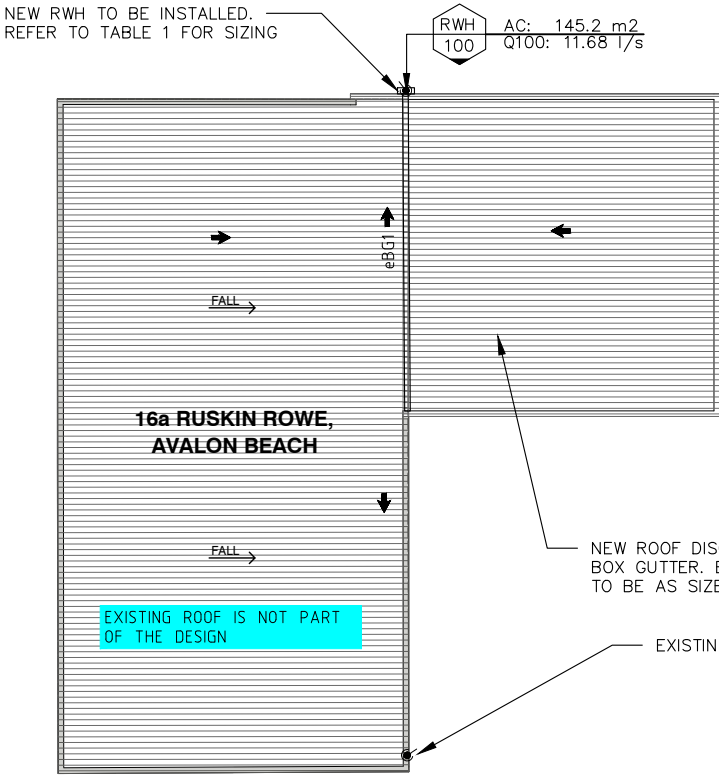
NOT FOR CONSTRUCTION

This drawing is confidential and shall only be used for the purposes of this project.					
REVISIONS					
0	SHA	15.12.2021	APPROVED FOR DA SUBMISSION	SSD	
No.	BY	DATE	DESCRIPTION	APPD	
Scale					
NA					
DO NOT SCALE. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED					
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APPROVED	SSD	DATE	15.12.2021		
Stellen Consulting ABN 61 149 095 189					
 Stellen Stellen Consulting ABN 61 149 095 189					
This design complies with: AS3500.3:2018					
16A RUSKIN ROWE, AVALON BEACH					
LEGEND					
Size	A3	Status	APPROVED FOR DA SUBMISSION	Dwg No.	DR-000
				Rev.	0

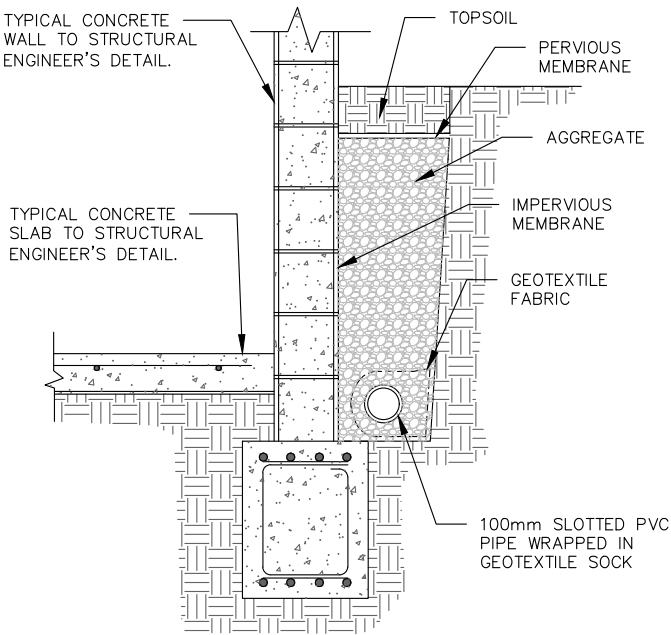
NOMENCLATURE
DP - DOWNPIPE
eBG - EXISTING BOX GUTTER
RWH - RAINWATER HEAD
Ac - PLAN CATCHMENT AREA EXCLUDING ROOF PITCH
Q100 - 100YR 5 MINUTE ARI FLOW RATE

GUTTER SIZING
DESIGN Q100 ARI (100YR:287mm/hr)
eBG1 - 250x160, REFER TO TABLE 1

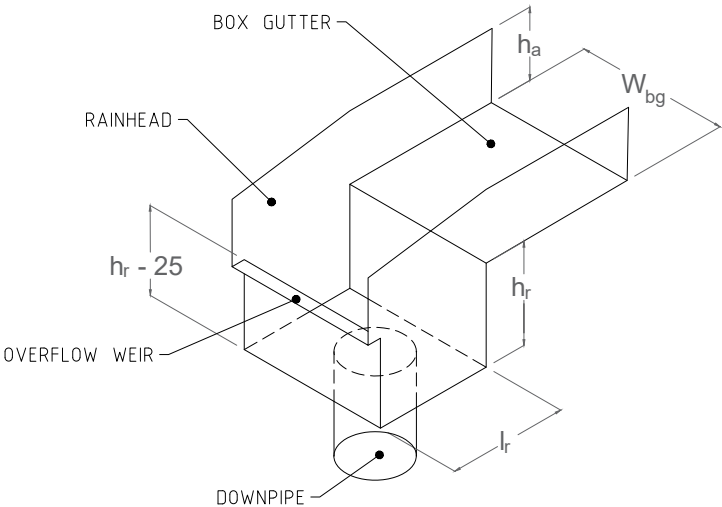
LEGEND
 DOWNPIPE TYPE AND DIAMETER
 DIRECTION OF FALL



PLAN
3
ROOF LAYOUT
1: 200



DETAIL
2
TYPICAL SUBSOIL DRAINAGE
NOT TO SCALE



DETAIL
1
RAINWATER HEAD/BOX GUTTER
NOT TO SCALE

TABLE 1 – RAINWATER HEAD DESIGN
(100 YEAR ARI, 1:200 FALL)

ROOF SERVICE AREA	–	145.2m ²
DOWNPIPE DIAMETER	DP	100mm
BOX GUTTER WIDTH (MIN)	W _{bg}	250mm
BOX GUTTER DEPTH (MIN)	h _a	160mm
LENGTH OF RAINWATER HEAD	L _r	265mm
RAINWATER HEAD DEPTH	h _r	515mm
RAINWATER HEAD WIDTH (MIN)	W _{rh}	250mm

NOTES:
1. TOP OF RAINWATER HEAD TO BE SET MIN 25mm LOWER THAN INVERT OF BOX GUTTER.
2. RAINWATER HEAD OVERFLOW WEIR TO BE SET 25mm BELOW SOLE OF BOX GUTTER.
3. BOX GUTTER SOLE TO HAVE MINIMUM 1:200 FALL
4. BOX GUTTER AND RAINHEAD TO BE DESIGNED TO ARCHITECTURAL SPECIFICATION PROVIDED
IT COMPLIES WITH THE MINIMUM DIMENSIONS IN TABLE 1.

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AS3500.3:2018

16A RUSKIN ROWE, AVALON BEACH			
ROOF LAYOUT & DETAILS			
Size	A3	Status	APPROVED FOR DA SUBMISSION
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