25 ALLEYNE AVENUE, NORTH NARRABEEN STORMWATER MANAGEMENT PLAN

DRAWING INDEX:

LEGEND DR-000

DR-001 PIPE LAYOUTS

DR-002 ROOF LAYOUT & DETAILS

DR-003 RWT & OSD TANKS DETAILS

DR-004 SITE AREAS

NOTES:

- 1. ALL DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
- 2. SITE LAYOUT BASED ON ARCHITECTURAL DESIGN BY RAMA 7. DOWNPIPES AND STORMWATER LINES TO BE SEALED DN100 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.
- 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

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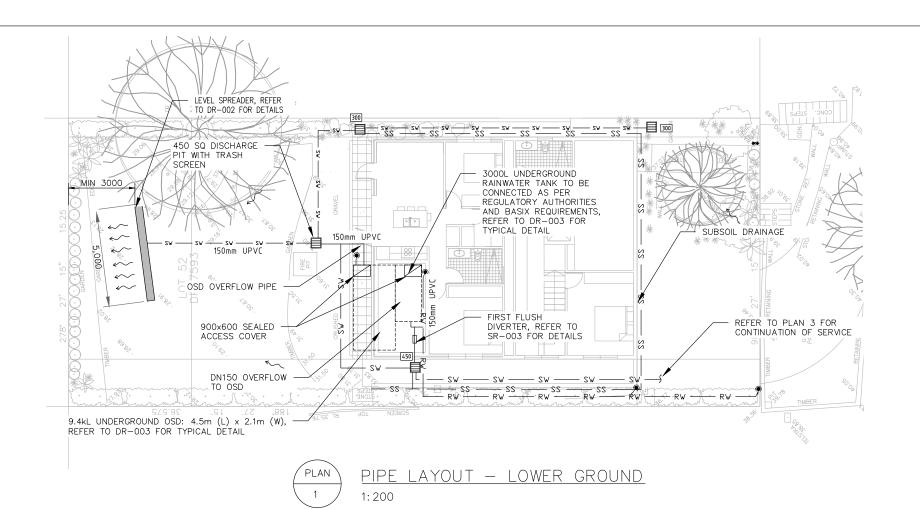
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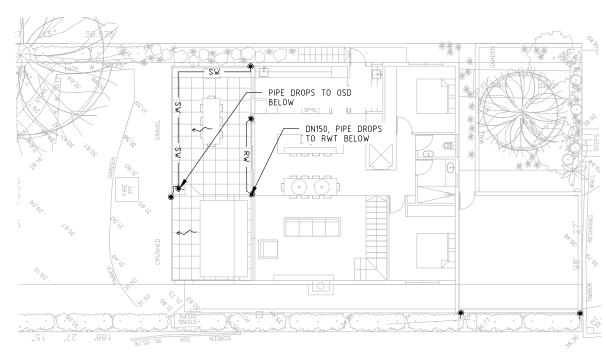


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This design complies with: AS3500.3:2018

25 ALLEYNE AVENUE, NORTH NARRABEEN **LEGEND** A3 APPROVED FOR DA SUBMISSION DR-000 0





PIPE DROPS TO BELOW

100mm RWO
100mm RWO
200x100mm GRATED BDX
DRAIN, LOAD CLASS 'B'
CTOO: 1.26 II/S 100



<u>PIPE LAYOUT — GROUND FLOOR</u> 1: 200 PLAN 3

PIPE LAYOUT - FIRST FLOOR

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

GUTTER SIZING
DESIGN 0100 ARI (100YR:261mm/hr)
EG1 - MIN CSA 12,100 mm², REFER TO TABLE 1
EG2 - MIN CSA 6,600 mm²

<u>LEGEND</u>

DOWNPIPE TYPE AND DIAMETER

DIRECTION OF FALL

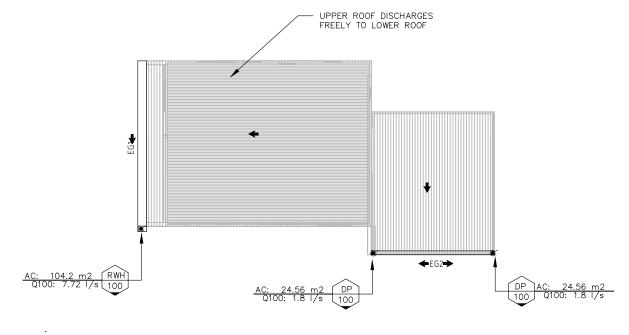
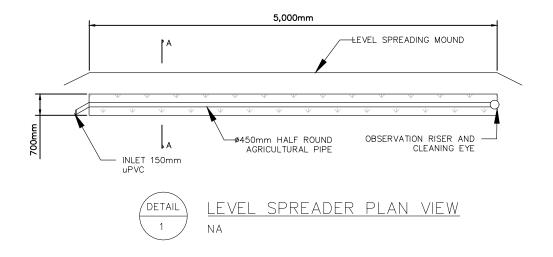
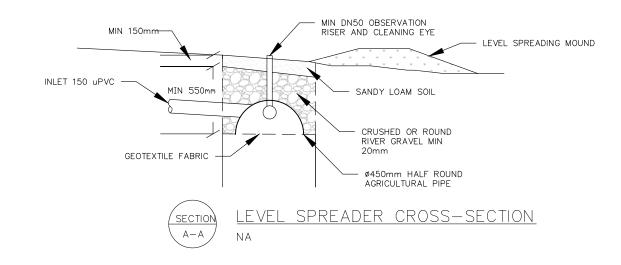


TABLE 1 — RAINWATER HE (100 YEAR ARI, 1:200	
ROOF SERVICE AREA	105.4m²
DOWNPIPE DIAMETER	100mm
GUTTER AREA (MIN)	12100mm²
LENGTH OF RAINWATER HEAD	185mm
RAINWATER HEAD DEPTH	225mm
RAINWATER HEAD WIDTH (MIN)	200mm







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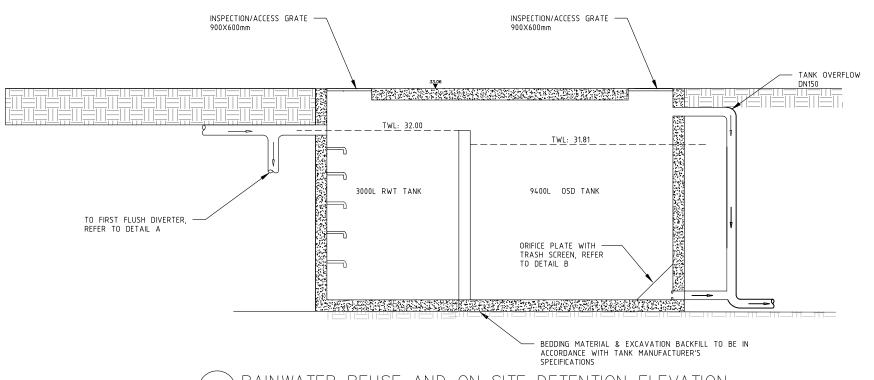
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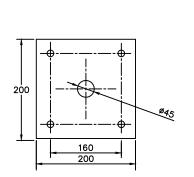
RAINWATER REUSE AND ON SITE DETENTION ELEVATION NOT TO SCALE
NOTES:

1. RAINWATER TANK TO BE AT LEAST 3000 LITRES 2

- THE APPLICANT MUST CONFIGURE THE RAINWATER TANK TO COLLECT RAINWATER RUNOFF FROM AT LEAST 150m² ROOF AREA.

 RAINWATER TANK MUST MEET, AND BE INSTALLED IN ACCORDANCE WITH, THE REQUIREMENTS OF ALL APPLICABLE REGULATORY AUTHORITIES.

 THE APPLICANT MUST CONNECT THE RAINWATER TANK TO AT LEAST ONE OUTDOOR TAP IN THE DEVELOPMENT

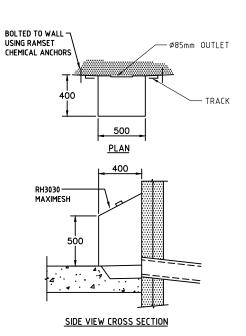


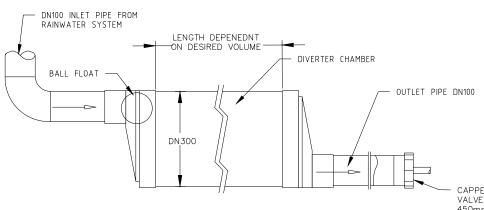
3mm THICK STAINLESS STEEL SECURELY FIXED TO OSD WALL WITH 4 OFF 12mm DYNA BOLTS



ORIFICE PLATE DETAIL

NOT TO SCALE





CAPPED END WITH O-RING, FLOW CONTROL VALVE AND HOSE CONNECTION TO ADJACENT



IN GROUND FIRST FLUSH DIVERTER NOT TO SCALE

- 1. INSTALL WITH MINIMUM 5 DEGREE SLOPE.
- 2. DIVERTER VOLUME TO BE MIN 52.1 LITRES (720mm of DN 300).

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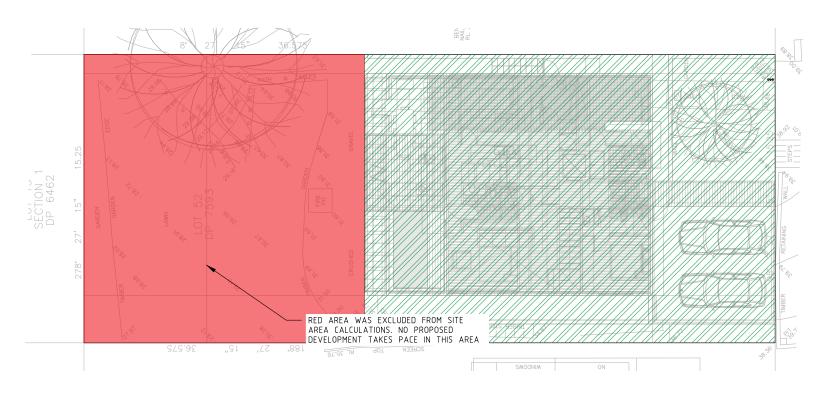
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PLAN
5 SITE AREAS — EXISTING
1: 200



PLAN SITE AREAS — PROPOSED
1: 200

EXISTING

TOTAL SITE AREA: 331.6m² PERVIOUS: 331.6m² (100%)

LEGEND

IMPERVIOUS TO OSD

IMPERVIOUS - BYPASS

PERVIOUS - BYPASS

PROPOSED

TOTAL SITE AREA: 331.6m²

DRAINING TO OSD:

IMPERVIOUS: 226.6m² (68.3%)

OSD BYPASS:

PERVIOUS: 82..20m² (24.8%) IMPERVIOUS: 22.80m² (6.9%)

			TABLE 1				
	PRE AND POST DEVELOPMENT FLOWS						
	<u>ARI</u>	PREDEVELOPED PSD (I/s)	POST	DEVELOPED F (I/s)	FLOWS		
		<u> </u>	PIPED	OVERLAND	TOTAL		
	5 YEAR	4	4	0	4		
	20 YEAR	00	6	0	6		
	100 YEAR	12	8	0	8		

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