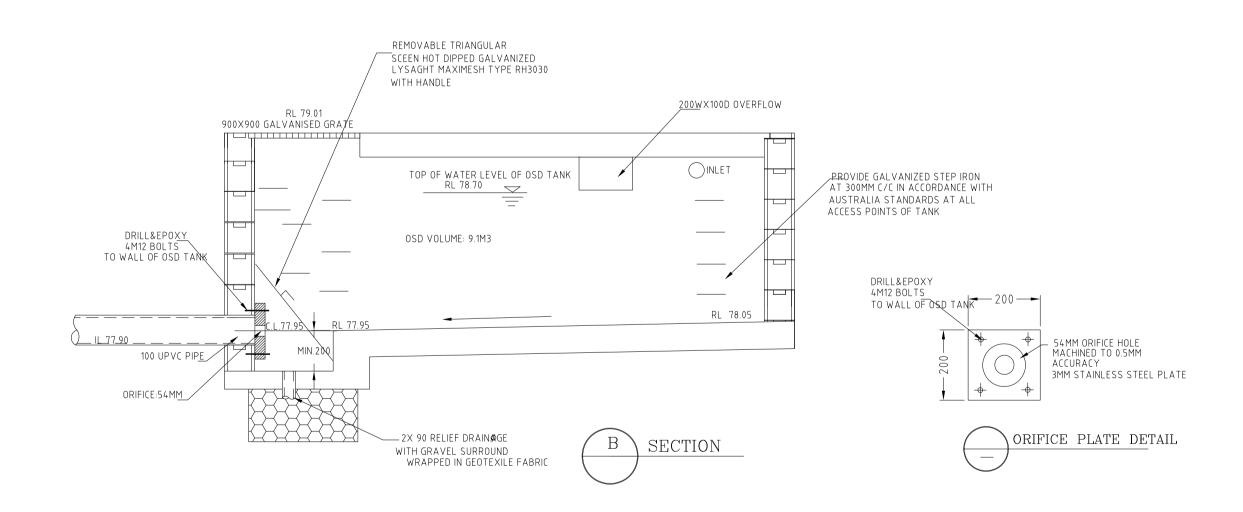


#### REMOVABLE TRIANGULAR SCEEN HOT DIPPED GALVANIZED LYSAGHT MAXIMESH TYPE RH3030 WITH HANDLE 200WX100D OVERFLOW RL 80.20 900X900 GALVANISED GRAZ ○INLET TOP OF WATER LEVEL OF OSD TANK RL 79.90 PROVIDE GALVANIZED STEP IRON AT 300MM C/C IN ACCORDANCE WITH AUSTRALIA STANDARDS AT ALL ACCESS POINTS OF TANK DRILL&EPOXY 4M12 BOLTS TO WALL OF OSD TAN OSD VOLUME: 9.1M3 DRILL&EPOXY 4M12 BOLTS TO WALL OF OSD TANK 200 -RL 79.35 47MM ORIFICE HOLE MACHINED TO 0.5MM ACCURACY 100 UPVC PIPE 3MM STAINLESS STEEL PLATE ORIFICE: 47MM\_\_ - 2X 90 RELIEF DRAIN♠GE WRAPPED IN GEOTEXILE FABRIC



#### CITY OF RYDE

DEVELOPMENT TYPE: DUPLEX

#### ON-SITE DETENTION CALCULATION SHEET

ADDRESS: 8 JAYNE ST, WEST RYDE -U1 (Zone 1) (Zone 2) (Eastwood) Catchment Zone Site Area <u>437.3</u> m² (A) 65% Site Area <u>284.2</u> m² Total Proposed Impervious Area (roofs, driveways, hardstand etc) 208.4 m<sup>2</sup> (B) 47.7 % % of site impervious Impervious area draining to the Storage Facility <u>178.9</u> m2 (C) Pervious area draining to the Storage Facility \_\_\_\_\_m² (D) Total area draining to the Storage Facility (impervious and pervious areas) 178.9 m<sup>2</sup> (E) Pervious area bypassing the Storage Facility <u>228.9</u> m² (F) <u>29.5</u> m² (G) Impervious area bypassing the Storage Facility 1. <u>1.16</u> (L) must not be greater than 1.25. Permitted Site Discharge (PSD) rate per m² Catchments in Zones 1 & 2 If (G)=0 then PSD = 0.0265 l/sec/m<sup>2</sup> If (G) $\neq$ 0 then PSD = 0.0265x(L)-1.37 I/sec/m2 Eastwood Catchment If (G)=0 then PSD = 0.0210 l/sec/m<sup>2</sup> <u>0.0216</u> If  $(G)\neq 0$  then PSD = 0.0210x(L)-1.37 |/sec/m2 **PERMITTED SITE DISCHARGE** (E) x (J)  $1\underline{78.9}$  x  $0\underline{.0216}$ 3.87 Storage Volume per m<sup>2</sup> (K) = 0.0275 m3/m² for zone 1 or (K) =  $0.0255 \text{ m}3/\text{m}^2$  for zone 2 or0.0275 (K) = 0.0300 m3/m² for Eastwood Catchment SITE STORAGE REQUIREMENT ((E) + (G)) x (K)x<del>(1.2)\* (178.9+29.5)</del>x 0.0275<del>(x1.2)</del> \* \_\_\_\_5.73 Allowance for Rainwater Tank offset (5000 litre Max, see clause 3.1.8) NOTE \* If OSD is provided in a landscaped surface basin the volume must be increased by 20% OUTLET CONTROL - using a Sharp Edged Orifice Plate Height Difference between top water level and Centre of Orifice (m) <u>0.65</u> (H) ORIFICE DIAMETER (mm) =21.9 47mm

#### CITY OF RYDE

Should pipe and pit losses be used to control outflow, the calculations are to be attached

DEVELOPMENT TYPE: DUPLEX

#### ON-SITE DETENTION CALCULATION SHEET

ADDRESS: 8 JAYNE ST, WEST RYDE -U2 (Zone 1) (Zone 2) (Eastwood) Catchment Zone Site Area 65% Site Area <u>325.5</u> m² Total Proposed Impervious Area (roofs, driveways, hardstand etc) 199.4 m² (B) % of site impervious Impervious area draining to the Storage Facility <u>199.4</u> m2 (C) Pervious area draining to the Storage Facility <u>0</u>\_\_\_m² (D) Total area draining to the Storage Facility (impervious and pervious areas) 199.4 m² (E) Pervious area bypassing the Storage Facility 301.3 m<sup>2</sup> (F) Impervious area bypassing the Storage Facility 1. <u>1.00</u> (L) must not be greater than 1.25. Permitted Site Discharge (PSD) rate per m<sup>2</sup>

SITE STORAGE REQUIREMENT ((E) + (G)) x (K)x(1.2)\* (199.4+0) x 0.0275(x1.2) \* 5.48

Allowance for Rainwater Tank offset (5000 litre Max, see clause 3.1.8)

NOTE\* If OSD is provided in a landscaped surface basin the volume must be increased by 20%

OUTLET CONTROL - using a Sharp Edged Orifice Plate

Height Difference between top water level and Centre of Orifice (m)

ORIFICE DIAMETER (mm) =21.9  $\sqrt{\frac{PSD}{\sqrt{(H\ )}}}$  Should pipe and pit losses be used to control outflow, the calculations are to be attached.

<u>0.75</u> (H)

54mm

THIS IS AN

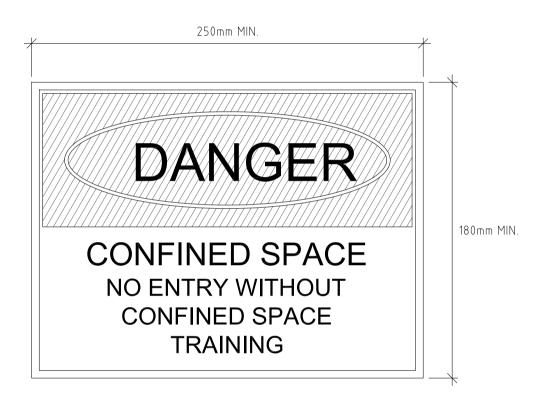
# ON-SITE STORMWATER DETENTION SYSTEM

REQUIRED BY CITY OF RYDE

IT IS AN OFFENCE TO REDUCE THE VOLUME
OF THE TANK OR BASIN OR TO INTERFERE WITH THE
ORIFICE PLATE THAT CONTROLS THE OUTFLOW

THE BASE OF THE OUTLET CONTROL PIT AND THE DEBRIS SCREEN MUST BE CLEANED OF DEBRIS AND SEDIMENT ON A REGULAR BASIS BY THE OWNER

THIS PLATE MUST NOT BE REMOVED



COLOURS:
'DANGER' AND BACKGROUND - WHITE
ELLIPTICLE AREA - RED
RECTANGULE CONTAINING ELLIPSE - BLACK
OTHER LETTERING AND BORDER - BLACK

### CONFINED SPACE DANGER SIGN N.T.S

1. A CONFINED SPACE DANGER SIGN SHAL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.

2. MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS)

- 250mm x 180mm (SMALL ENTRIES SUCH AS

GRATES & MANHOLES)

3. THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR

POLYPROPELINE.

4. SIGN SHALL BE AFIXED USING SCREWS AT EACH CORNER OF THE SIGN.

6	08/07/2022	ISSUED FOR DA APPROVAL	JZ
5	20/04/2022	ISSUED FOR DA APPROVAL	JZ
4	20/01/2022	ISSUED FOR DA APPROVAL	JZ
3	06/01/2022	ISSUED FOR DA APPROVAL	JZ
1	19/10/2021	ISSUED FOR DA APPROVAL	JZ
ISSUE	DATE	REVISION & AMENDMENT	DRAWN

## MBC ENGINEERING

MBC ENGINEERING PTY LTD PO BOX 269, PARRAMATTA

EMAIL:mbcconsulting@live.com

MOBILE: 0432546227

PROPOSED RESIDENTAIL AT:

8 JAYNE ST, WEST RYDE

TITLE:

STORMWATER DRAINAGE PLAN

DRAWN BY:

DATE:

19/10/2021

DESIGNED: C.Z.(BE, MIEAust 3928680)

DATE:

19/10/2021

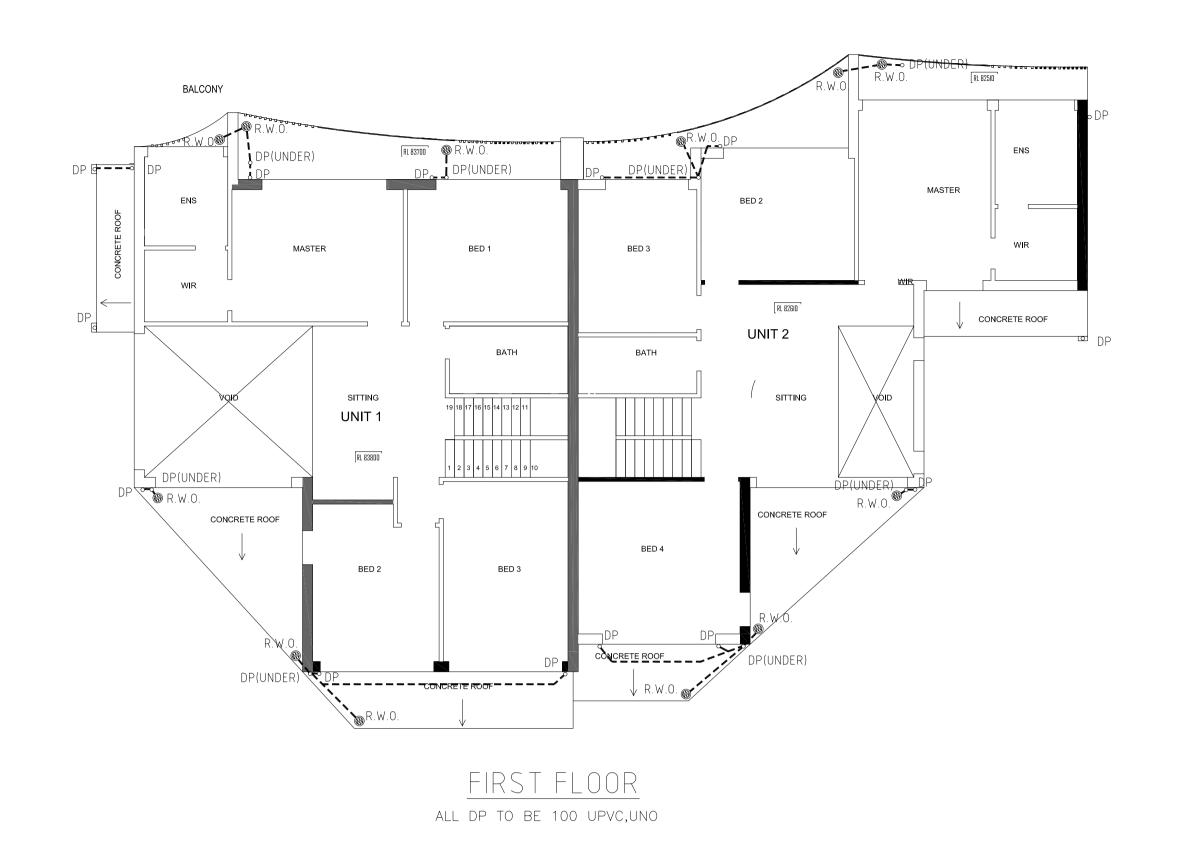
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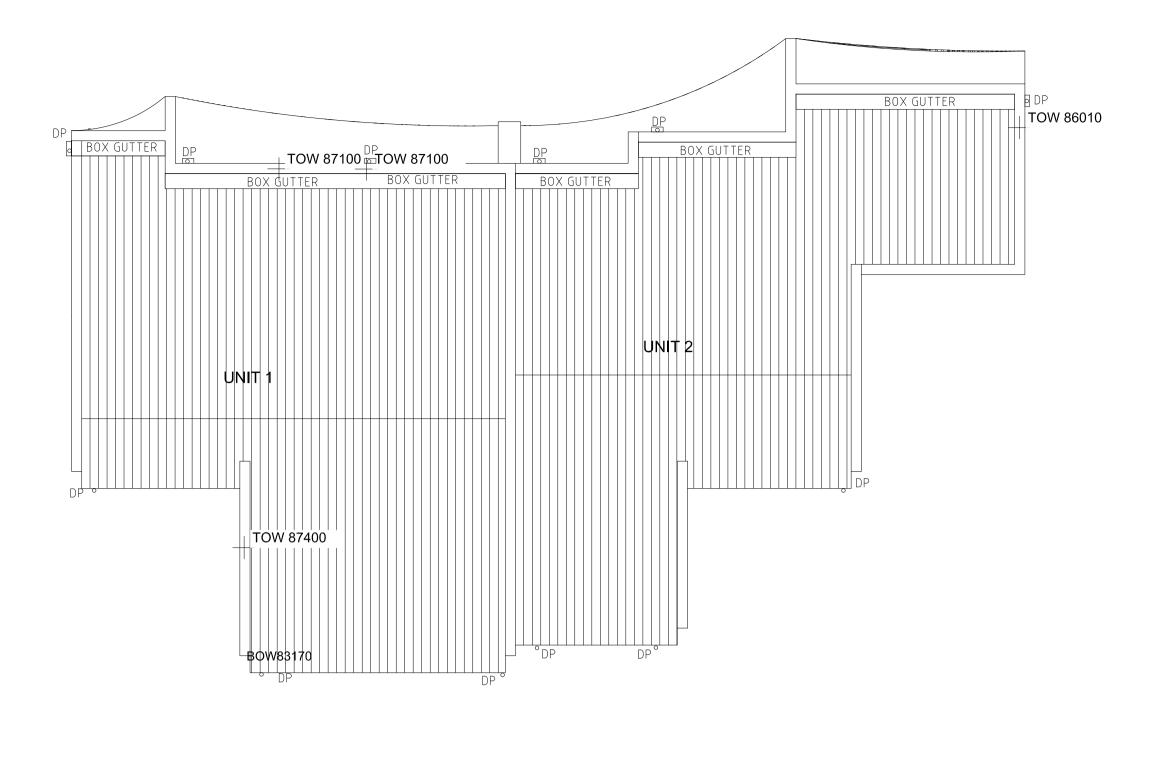
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SCALE:

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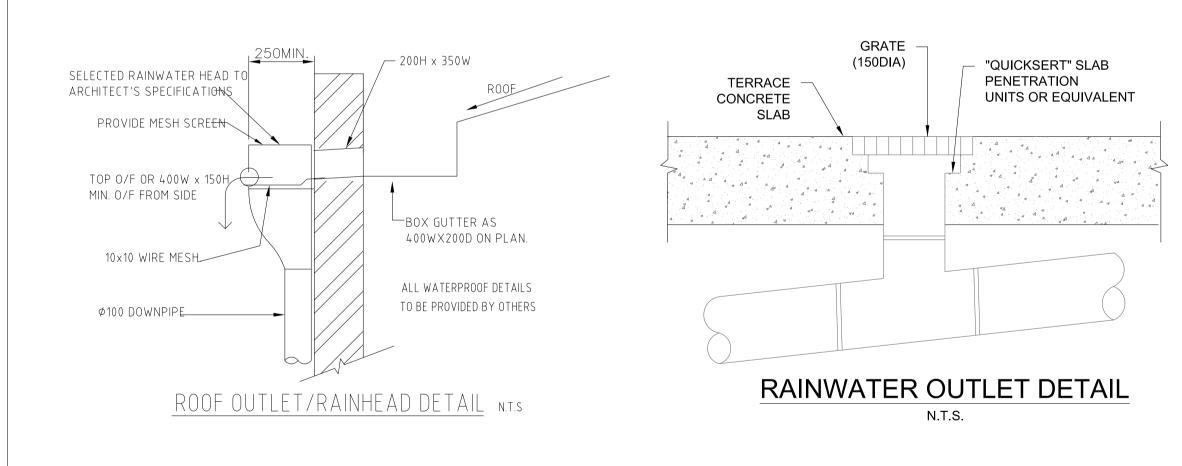
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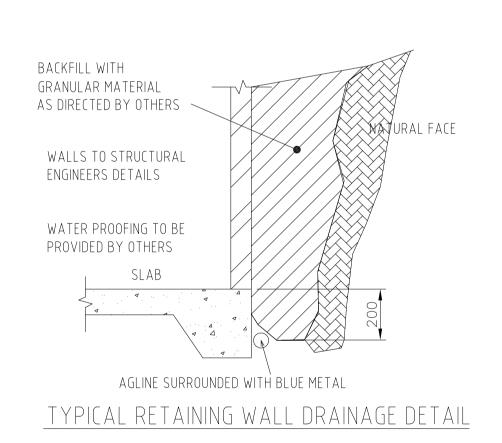


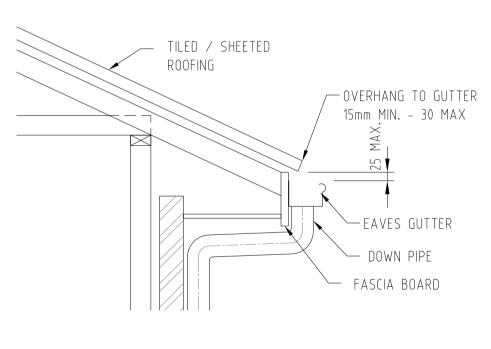


ROOF FLOOR

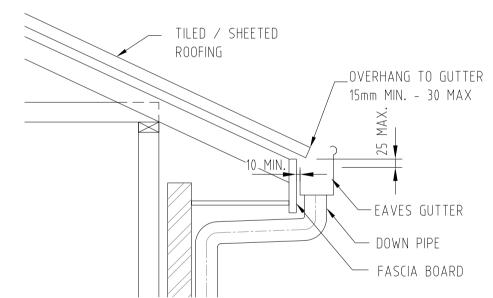
ALL DP TO BE 100 UPVC,UNO











TYPICAL EAVE GUTTER DETAIL N.T.S. WITH HIGH FRONT & 10mm GAP TO FACIA

6	08/07/2022	ISSUED FOR DA APPROVAL	JZ
5	20/04/2022	ISSUED FOR DA APPROVAL	JZ
<i>L</i> <sub>+</sub>	20/01/2022	ISSUED FOR DA APPROVAL	JZ
3	06/01/2022	ISSUED FOR DA APPROVAL	JZ
2	23/10/2021	ISSUED FOR DA APPROVAL	JZ
1	19/10/2021	ISSUED FOR DA APPROVAL	JZ
ISSUE	DATE	REVISION & AMENDMENT	DRAWN

1:20

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SCALE:

1:100

SHEET No:

1:100