



MACASA HOMES PTY LTD

PROPOSED DEVELOPMENT  
AT

LOT8 NO. 8 RAVEN CIRCUIT,  
WARRIEWOOD. NSW

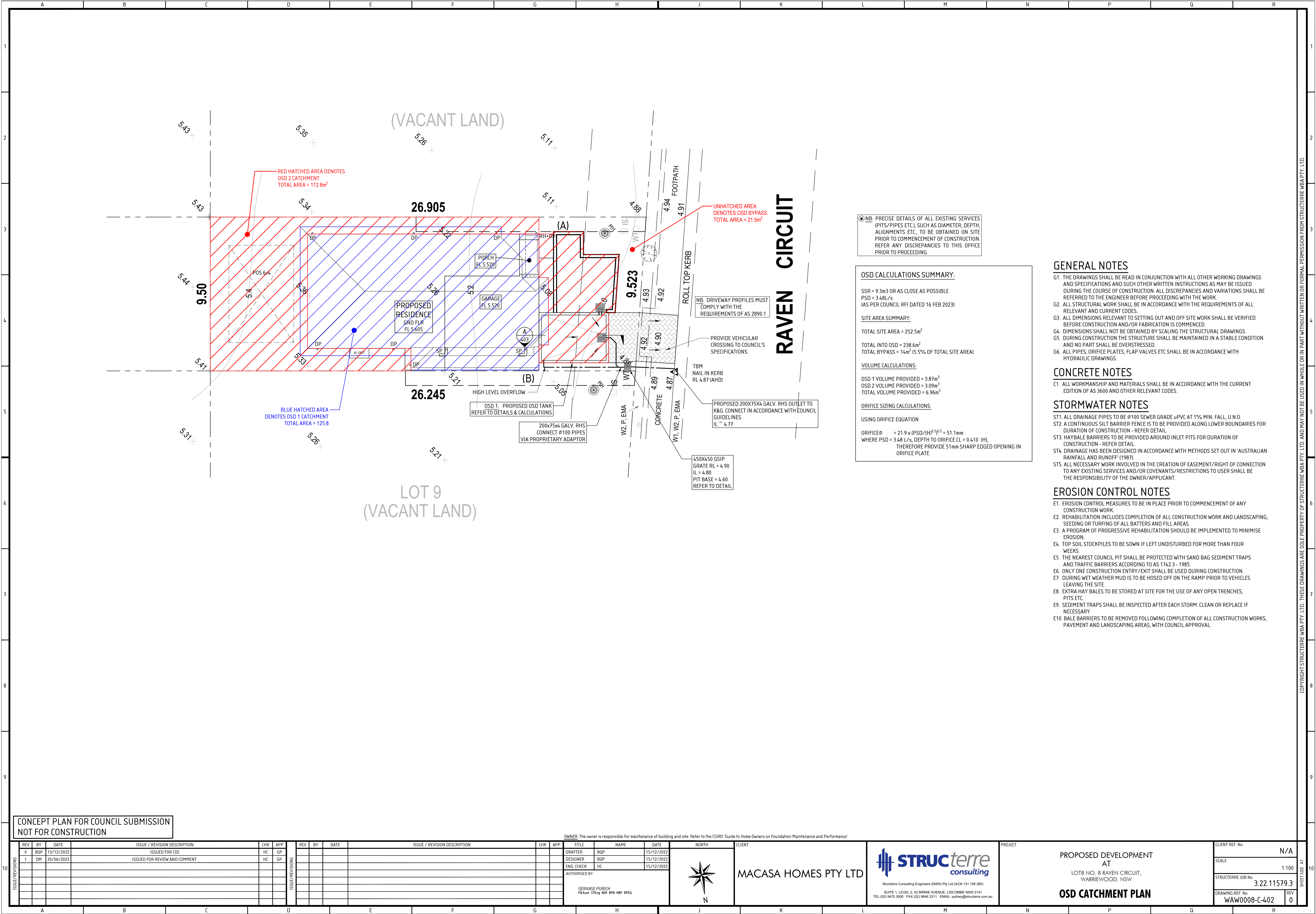
INDEX TO SHEETS	
SHEET	TITLE
C-000	COVER SHEET & DRAWING LIST
C-401	STORMWATER DRAINAGE PLAN
C-402	OSD CATCHMENT PLAN
C-401	OSD PLAN & DETAILS

OWNER: The owner is responsible for maintenance of building and site. Refer to the CSIRO 'Guide to Home Owners on Foundation Maintenance and Performance'.

ISSUE/REVISIONS	REV	BY	DATE	ISSUE / REVISION DESCRIPTION		CHK	APP	ISSUE/REVISIONS	REV	BY	DATE	ISSUE / REVISION DESCRIPTION		CHK	APP	TITLE	NAME	DATE	NORTH	CLIENT	<div><div></div>STRUCterre consulting</div> <div>Sstructure Consulting Engineers (NSW) Pty Ltd (ACN 131 748 260)  SUITE 1, LEVEL 2, 42 BIRNIE AVENUE, LIDCOMBE NSW 2141 TEL (02) 9475 3000 FAX (02) 9648 2311 EMAIL: sydney@struc terre.com.au</div>	PROJECT		CLIENT REF. No. N/A		SHEET SIZE: A1
	0	BGP	15/12/2022	ISSUED FOR CDC		HC	GP									DRAFTER	BGP	15/12/2022								
	1	DM	20/06/2023	ISSUED FOR REVIEW AND COMMENT		HC	GP									DESIGNER	BGP	15/12/2022								
																ENG. CHECK	HC	15/12/2022								
																AUTHORISED BY:										
																GERVASE PURICH FE Aust. CP Eng NR 898 RPS 898										
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SHEET SIZE A1



⊗NB: PRECISE DETAILS OF ALL EXISTING SERVICES (PITS/PIPES ETC), SUCH AS DIAMETER, DEPTH, ALIGNMENTS ETC. TO BE OBTAINED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. REFER ANY DISCREPANCIES TO THIS OFFICE PRIOR TO PROCEEDING.

OSD CALCULATIONS SUMMARY:

SSR = 9.3m³ OR AS CLOSE AS POSSIBLE  
PSD = 3.48L/s  
(AS PER COUNCIL RFI DATED 16 FEB 2023)

SITE AREA SUMMARY:

TOTAL SITE AREA = 252.5m²  
TOTAL INTO OSD = 238.6m²  
TOTAL BYPASS = 14m² (5.5% OF TOTAL SITE AREA)

VOLUME CALCULATIONS:

OSD 1 VOLUME PROVIDED = 3.87m³  
OSD 2 VOLUME PROVIDED = 3.09m³  
TOTAL VOLUME PROVIDED = 6.96m³

ORIFICE SIZING CALCULATIONS:

USING ORIFICE EQUATION

ORIFICE  $\phi$  = 21.9 x (PSD/(H))<sup>0.5</sup> = 51.1mm  
WHERE PSD = 3.48 L/s, DEPTH TO ORIFICE CL = 0.410 (H),  
THEREFORE PROVIDE 51mm SHARP EDGED OPENING IN ORIFICE PLATE

GENERAL NOTES

- G1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS AND SPECIFICATIONS AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G2. ALL STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELEVANT AND CURRENT CODES.
- G3. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF SITE WORK SHALL BE VERIFIED BEFORE CONSTRUCTION AND/OR FABRICATION IS COMMENCED.
- G4. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G5. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G6. ALL PIPES, ORIFICE PLATES, FLAP VALVES ETC SHALL BE IN ACCORDANCE WITH HYDRAULIC DRAWINGS.

CONCRETE NOTES

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS 3600 AND OTHER RELEVANT CODES.

STORMWATER NOTES

- ST1. ALL DRAINAGE PIPES TO BE Ø100 SEWER GRADE uPVC AT 1% MIN. FALL, U.N.O.
- ST2. A CONTINUOUS SILT BARRIER FENCE IS TO BE PROVIDED ALONG LOWER BOUNDARIES FOR DURATION OF CONSTRUCTION - REFER DETAIL.
- ST3. HAYBALE BARRIERS TO BE PROVIDED AROUND INLET PITS FOR DURATION OF CONSTRUCTION - REFER DETAIL.
- ST4. DRAINAGE HAS BEEN DESIGNED IN ACCORDANCE WITH METHODS SET OUT IN 'AUSTRALIAN RAINFALL AND RUNOFF' (1987).
- ST5. ALL NECESSARY WORK INVOLVED IN THE CREATION OF EASEMENT/RIGHT OF CONNECTION TO ANY EXISTING SERVICES AND/OR COVENANTS/RESTRICTIONS TO USER SHALL BE THE RESPONSIBILITY OF THE OWNER/APPLICANT.

EROSION CONTROL NOTES

- E1. EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.
- E2. REHABILITATION INCLUDES COMPLETION OF ALL CONSTRUCTION WORK AND LANDSCAPING, SEEDING OR TURFING OF ALL BATTERS AND FILL AREAS.
- E3. A PROGRAM OF PROGRESSIVE REHABILITATION SHOULD BE IMPLEMENTED TO MINIMISE EROSION.
- E4. TOP SOIL STOCKPILES TO BE SOWN IF LEFT UNDISTURBED FOR MORE THAN FOUR WEEKS.
- E5. THE NEAREST COUNCIL PIT SHALL BE PROTECTED WITH SAND BAG SEDIMENT TRAPS AND TRAFFIC BARRIERS ACCORDING TO AS 1742.3 - 1985.
- E6. ONLY ONE CONSTRUCTION ENTRY/EXIT SHALL BE USED DURING CONSTRUCTION.
- E7. DURING WET WEATHER MUD IS TO BE HOSED OFF ON THE RAMP PRIOR TO VEHICLES LEAVING THE SITE.
- E8. EXTRA HAY BALES TO BE STORED AT SITE FOR THE USE OF ANY OPEN TRENCHES, PITS ETC.
- E9. SEDIMENT TRAPS SHALL BE INSPECTED AFTER EACH STORM. CLEAN OR REPLACE IF NECESSARY.
- E10. BALE BARRIERS TO BE REMOVED FOLLOWING COMPLETION OF ALL CONSTRUCTION WORKS, PAVEMENT AND LANDSCAPING AREAS, WITH COUNCIL APPROVAL.

CONCEPT PLAN FOR COUNCIL SUBMISSION  
NOT FOR CONSTRUCTION

OWNER: The owner is responsible for maintenance of building and site. Refer to the CSIRO 'Guide to Home Owners on Foundation Maintenance and Performance'.

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NOT TO SCALE  
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BOTH WAYS, CENTRALLY PLACED.  
PROPRIETARY PRECAST CONCRETE OR FRC PITS MAY BE USED  
AS AN ALTERNATIVE, SUBJECT TO COUNCIL/ PCA APPROVAL.



NOT TO SCALE

- STRING 16 GAUGE WIRE TIGHTLY BETWEEN STAKES
- LAP BIDIM OVER 50MM & STITCH WITH TIE WIRE
- LOOPED AT 100MM CENTRES
- REMOVE SILT AFTER EACH MAJOR STORM



NOT TO SCALE



NOT TO SCALE  
NB: "EVERHARD" 250x250 SURFACE GRATE  
MAY BE USED AS AN ALTERNATIVE.



NOT TO SCALE



N.T.S.



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