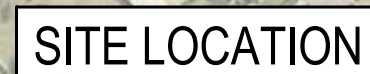


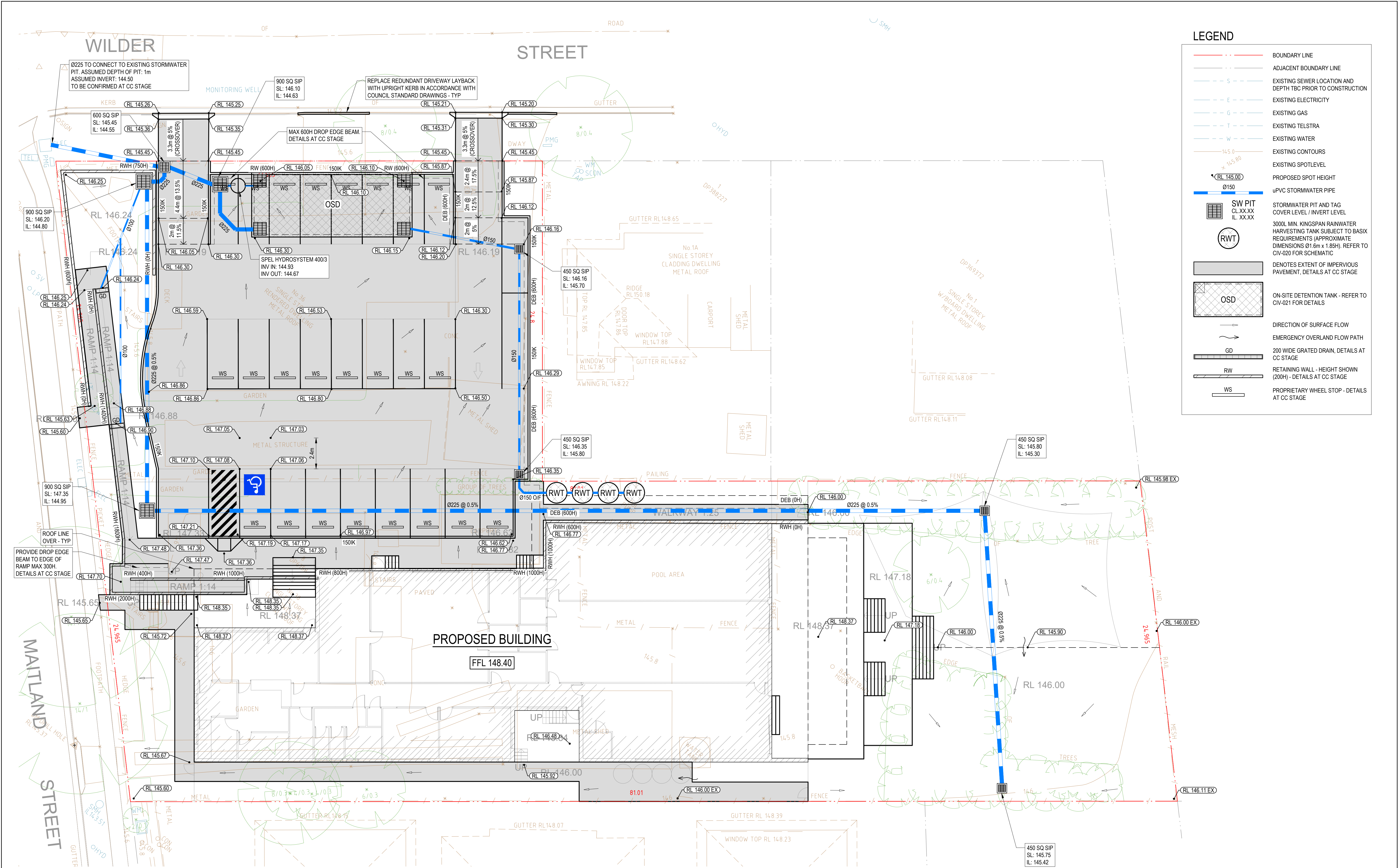
36-38 MAITLAND STREET, MUSWELLBROOK, NSW 2333



NTS

OSD TANK PLAN

Date: 30.01.2024 12:09 PM Plotted By: NAME DRBSPARE2 Found: C:\Users\Name DRBSPare2\DRB Consulting Engineers Pvt Ltd\Files - Documents\232495 - 36 Maitland Road Muswilbrook\3. Drawings\1. Civil\232495 CIV.dwg



CIVIL WORKS PLAN

SCALE 1:150

REVISIONS							This drawing is not approved for construction unless signed.				260 MAITLAND ROAD, MAYFIELD PO BOX 4105 KOTARA EAST 2305 P: (02) 4040 0580 E: hello@drbengineering.com.au ABN 64 625 755 482	CLIENT MAHASAN TITLE CIVIL WORKS PLAN	PROJECT PROPOSED CHILDCARE CENTRE 36-38 MAITLAND STREET MUSWELLBROOK, NSW 2333	DRAWING STATUS DEVELOPMENT APPROVAL		SHEET SIZE A1					
														SCALE 1 : 150 (A1)		DRAWN J.J.					
	A	30/01/24	J.J.	J.T.	M.M.	ISSUED FOR DEVELOPMENT APPROVAL	COPYRIGHT - This drawing and the information provided shall remain the property of DRB Consulting Engineers Pty Ltd (DRB) and may not be used, copied or reproduced, in whole or part, for any purpose other than that for which it was supplied without the prior consent of DRB. This drawing has been produced in colour and may be incomplete if printed/copied in colour. All dimensions to be verified on-site before commencing work.												PROJECT REF No. 232495	DRAWING No. CIV-010	REVISION A
	REV	DATE	DRN	CHK	APP	DRAWING STATUS															

STORM EVENT	PEAK DISCHARGE m³/s	
	PRE-DEV	POST-DEV
20%	0.023	0.020
10%	0.034	0.028
5%	0.043	0.040
1%	0.085	0.071

POLLUTANTS (hg/yr)	SOURCES	RESIDUAL LOAD	TARGET (%)	% REDUCTION	OK?
TOTAL SUSPENDED SOLIDS	483.890	16.660	80	96.500	YES
TOTAL PHOSPHORUS	0.951	0.076	45	92.000	YES
TOTAL NITROGEN	5.880	2.271	45	61.370	YES
GROSS POLLUTANTS	58.510	0.000	75	100	YES

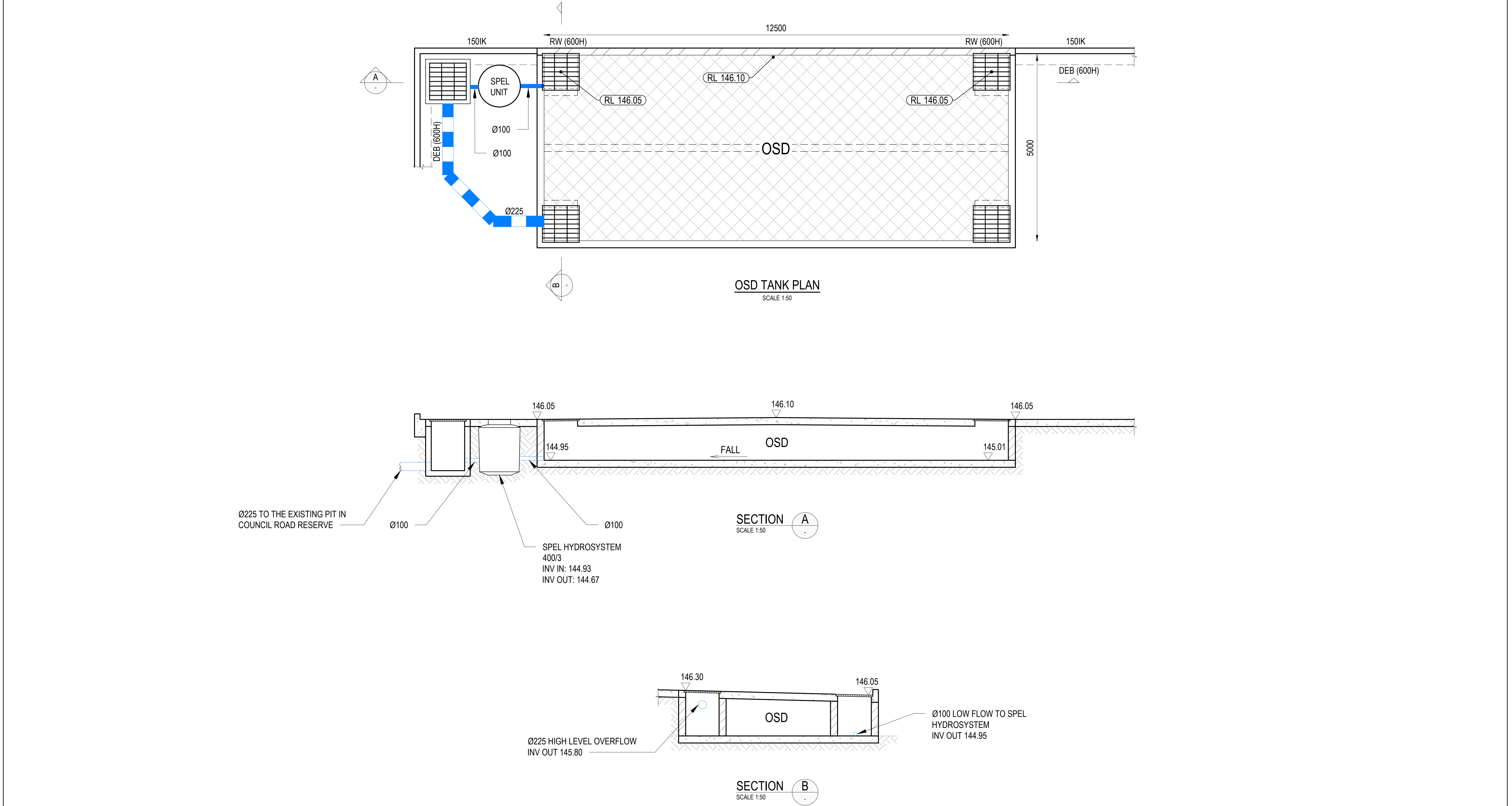


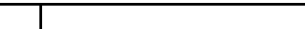
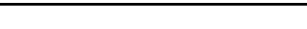
- ALL ROOFWATER FROM THE PROPOSED STRUCTURE IS TO BE DIRECTED TO THE PROPOSED ABOVE GROUND RAINWATER TANKS. OVERFLOW FROM THE RAINWATER TANKS WILL BE DIRECTED THROUGH THE SERIES OF PITS AND PIPES TO THE UNDERGROUND OSD TANK.
- THE COMBINED RAINWATER TANK VOLUME WILL BE 12KL IN SIZE. THE STORED WATER WILL BE REUSED EXTERNALLY IN LANDSCAPED AREAS AND INTERNALLY IN TOILETS.
- ALL CARPARK AREAS ARE TO DRAIN TO THE PROPOSED UNDERGROUND OSD TANK. THE PROPOSED OSD TANK WILL PROVIDE 55.5m3 OF STORAGE. SUFFICIENT VOLUME HAS BEEN PROVIDED TO LIMIT THE PEAK POST-DEVELOPMENT DISCHARGE RATES TO PEAK PRE-DEVELOPMENT DISCHARGE RATES.
- THE COMBINATION OF RAINWATER TANKS AND THE SPEL HYDROSYSTEM WILL FORM THE TREATMENT TRAIN TO ADDRESS STORMWATER QUALITY REQUIREMENTS. THIS TREATMENT TRAIN WILL TREAT THE PROPOSED ADDITIONAL HARDSTAND AREA TO COMPLY WITH COUNCIL'S STRIPPING TARGETS.
- THE OUTLET FROM THE OSD TANK WILL DIRECT STORMWATER FLOWS TO COUNCIL'S EXISTING STORMWATER PIT LOCATED ON THE CORNER OF MAITLAND STREET AND WILDER STREET.

SITE AREA	= 2900 m ²
TOTAL ROOF AREA	= 860 m ²
DRIVEWAY AREA	= 890 m ²
OTHER IMPERVIOUS AREA	= 240 m ²
TOTAL PERVIOUS AREA	= 910 m ²
TOTAL IMPERVIOUS AREA	= 860 + 890 + 240 = 1990 m ²
% SITE IMPERVIOUS	= 68.62%

[illegible]

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													SCALE 1: 50 (A1)		DRAWN J.J.
													PROJECT REF No.	DRAWING No.	REVISION
	REV	DATE	DRN	CHK	APP	DRAWING STATUS							232495	CIV-021	A
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