

Our Ref: 9600\_Rpt1\_WQ.doc

13 November 2013

Penrith Lakes Development  
Corporation Pty. Ltd.  
PO Box 457  
CRANEBROOK NSW 2749

**Attn: Mr Chad Jackson**

**Subject: Sardam Avenue Extension – Water Quality Assessment**

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Dear Chad,

As requested J. Wyndham Prince have investigated the water quality requirements in support of a proposed Development Application for an extension to Sardam Avenue, Cranebrook. The proposed development is shown on Drawing No. 9600/DA21 (attached) and includes the creation of seven (7) residential lots and the extension of Sardam Avenue for access.

The site is located within an existing catchment that drains to the Penrith Lakes water quality scheme. The scheme has been designed to treat water from the upstream urban catchments to the appropriate target levels prior to discharge to the Nepean River. The water quality strategy for the catchment, including the Sardam Avenue development, is discussed in the Penrith Lakes Development Corporation Draft Water Quality Strategy<sup>1</sup>. Therefore, we see that no additional water quality treatment is required specifically to treat the stormwater runoff for the Sardam Avenue extension development, as appropriate measures already exist within the Penrith Lakes Development Scheme.

Should you have any queries regarding this matter please do not hesitate to contact me.

Yours faithfully

**J. WYNDHAM PRINCE**

**DANIEL GARDINER**

Senior Water Resources Engineer

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<sup>1</sup> Penrith Lakes Development Corporation – Draft Water Quality Strategy (August 2012)

DRAINAGE LAYOUT INDICATIVE ONLY, FINAL PIT AND PIPE LOCATIONS ARE SUBJECT TO DETAIL DESIGN.

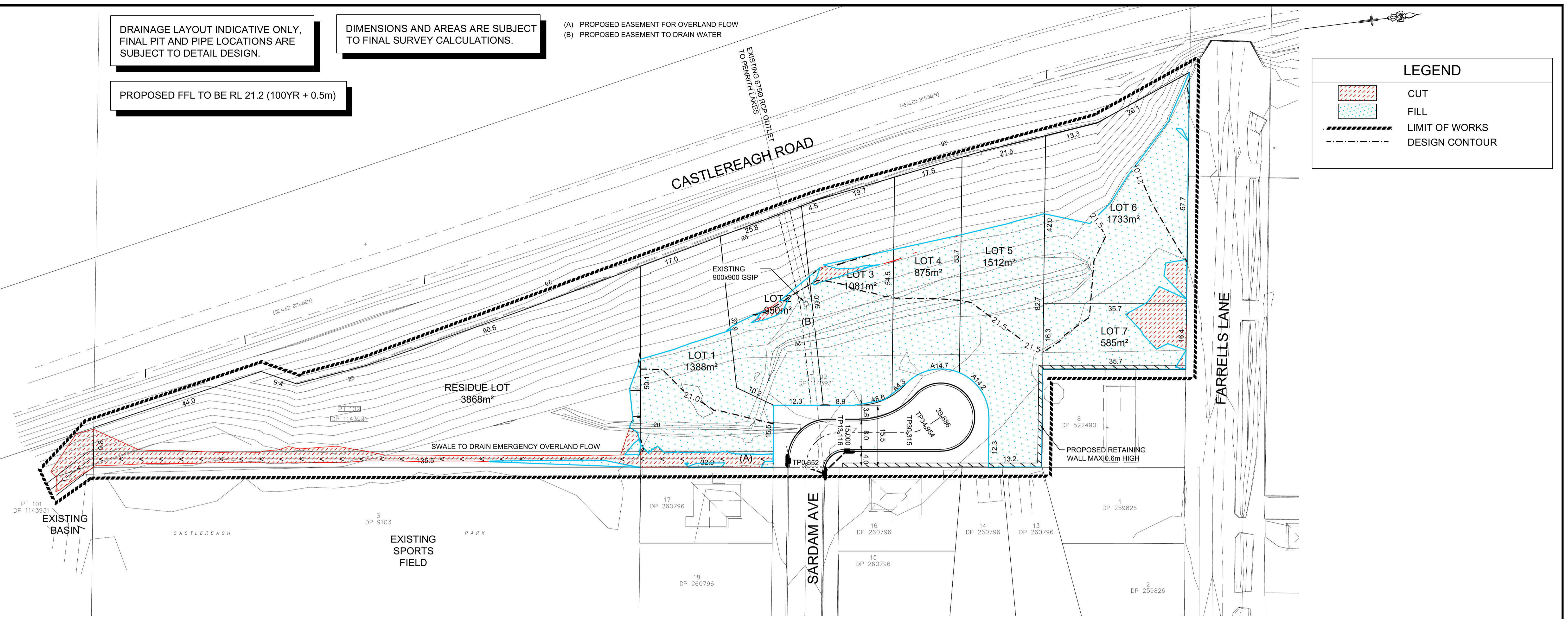
DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY CALCULATIONS.

(A) PROPOSED EASEMENT FOR OVERLAND FLOW  
(B) PROPOSED EASEMENT TO DRAIN WATER

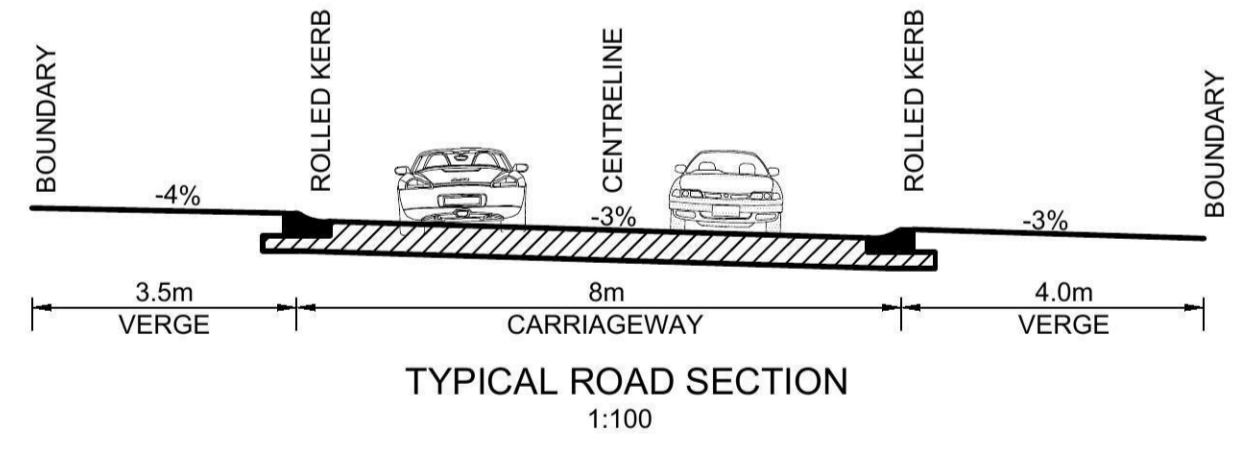
PROPOSED FFL TO BE RL 21.2 (100YR + 0.5m)

**LEGEND**

- CUT
- FILL
- LIMIT OF WORKS
- DESIGN CONTOUR



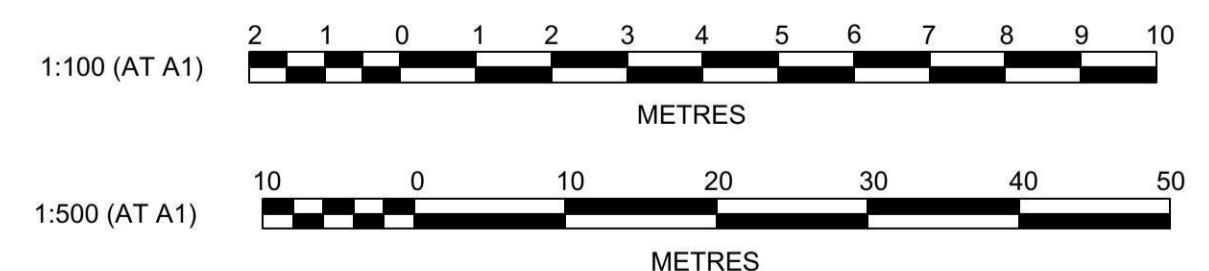
PLAN  
SCALE 1:500



**LONGITUDINAL SECTION**  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100

CHAINAGE	EXISTING SURFACE	DESIGN LINE GRADING
0.00	20.61	20.61
0.65	20.62	20.61
2.97	20.63	20.59
4.47	20.60	20.59
10.97	20.47	20.64
13.12	20.47	20.67
15.00	20.48	20.70
15.33	20.48	20.70
22.83	20.60	20.80
30.00	20.63	20.86
30.32	20.62	20.86
30.33	20.62	20.86
34.95	20.66	20.90
39.69	20.69	20.91

**DRAFT ISSUE ONLY**  
THESE PLANS HAVE NOT COMPLETED J. WYNDHAM PRINCE'S QUALITY REVIEW, CHECKING AND APPROVAL PROCESS AND ARE SUBJECT TO CHANGE



CLIENT:

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

**ADVANCE COPY ONLY**  
NOT FOR CONSTRUCTION

PENRITH LAKES  
CRANEBROOK WEST - SARDAM AVE  
SUBDIVISION PLAN

PLAN No: 9600/DA21 **A**  
FILE No: 9600DA21  
SHEET SIZE: A1 ORIGINAL

**J. WYNDHAM PRINCE** CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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Plotted: 12 November, 2013 3:37:10 PM. File Name: J:\9600\DA - Development Application Plans\Cranebrook West\9600DA21.dwg

NO.	DESCRIPTION	DES	DRN	CKD	APR	DATE
A	ISSUED FOR CLIENT REVIEW	VG	VG			11/11/13
	AMENDMENT					