

30 October 2019

The Pittwater House Schools
c/- Neeson Murcutt Architects Pty Ltd
Level 2, 9 Roslyn Street
Potts Point NSW 2011

Attention: Kirsty Hetherington <kirsty@neesonmurcutt.com>

Hydraulic engineering design in support of the proposed development at Pittwater House

Dear Kirsty

Please find attached the drawings describing the stormwater management plan for the proposed development at Pittwater House.

The stormwater management plan is described in the following Stellen Consulting drawings:

Drawing Index:

DR-000 REV 1 Stormwater Cover Sheet

Stormwater Layout:

DR-100 REV 1 Site Stormwater Layout

DR-101 REV 1 Stormwater Layout 1

DR-102 REV 1 Stormwater Layout 2

DR-103 REV 1 Stormwater Layout 3

DR-104 REV 1 Stormwater Layout 4

DR-105 REV 1 Stormwater Layout 5

DR-106 REV 1 Stormwater Layout 6

Details Sheet:

DR-200 REV 1 Details Sheet 1

DR-201 REV 1 Details Sheet 2

Development Overview:

The development proposes a new library with alterations and additions to M-block, carpark facilities and landscaped areas, refer to architectural and landscape drawings for the proposed changes.

The development is also affected by overland flow, refer to Stellen Consulting's Overland Flow Report.

Stormwater System Overview:

The majority of the development's existing stormwater network is to remain. However, any impediments from the proposed works will be redirected, via a new stormwater network, and drain to the existing discharge points.

To improve water quality; water sensitive urban design measures such as rain gardens, swales and pervious car parking have all been proposed.

The stormwater management plan conforms to the relevant conditions and requirements of the following with noted exceptions:

- *Northern Beaches Council Policy 850 Water (2017) – “Water Management Policy”*
- *Australian Standard AS3500.3 – “Plumbing and Drainage: Part 3 Stormwater Drainage”*

Stormwater flows from the site as a result of the development are not expected to adversely impact adjoining and downstream properties.

We, therefore, recommend the proposed stormwater management plan as a safe and practical solution to support the proposed development.

Kind regards,



Stuart Steinle-Davies
Engineer

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Drawing List

Architectural drawings by NEESON MURCUTT

Rev: DA Issue

DRAWING No.	DRAWING TITLE
DA 01	COVER SHEET
DA 02	SITE ANALYSIS
DA 03	SITE ANALYSIS
DA 04	SITE PLAN
DA 05	DEMOLITION PLANS
DA 06	LIBRARY + STUDENT SERVICES PLANS
DA 07	LIBRARY + STUDENT SERVICES ELEVATIONS + SECTIONS
DA 08	SOUTH + WEST WING UNIVERSAL CORE PLANS
DA 09	TRAFFIC
DA 10	SHADOW DIAGRAMS
DA 11	SCHEDULE OF COLOURS AND MATERIALS
DA 12.1	NOTIFICATION PLAN
DA 12.2	NOTIFICATION PLAN
DA 13.1	CONSTRUCTION METHODOLOGY

Landscape Architectural drawings by Jila

Rev: DA Issue

DRAWING SHEETS:

L-DA-000	COVERSHEET
L-DA-001	LEGEND AND SCHEDULE
L-DA-002	LEGEND AND PLANT SCHEDULE
L-DA-003	LANDSCAPE MASTERPLAN
L-DA-011	PRECEDENT 01
L-DA-012	PRECEDENT 02
L-DA-013	PRECEDENT 03
L-DA-101	LANDSCAPE DETAIL PLAN 01
L-DA-102	LANDSCAPE DETAIL PLAN 02
L-DA-103	LANDSCAPE DETAIL PLAN 03
L-DA-104	LANDSCAPE DETAIL PLAN 04
L-DA-105	LANDSCAPE DETAIL PLAN 05
L-DA-106	LANDSCAPE DETAIL PLAN 06
L-DA-107	LANDSCAPE DETAIL PLAN 07
L-DA-108	LANDSCAPE DETAIL PLAN 08
L-DA-109	LANDSCAPE DETAIL PLAN 09
L-DA-110	LANDSCAPE DETAIL PLAN 10
L-DA-111	LANDSCAPE DETAIL PLAN 11
L-DA-112	LANDSCAPE DETAIL PLAN 12
L-DA-500	SECTION LOCATION PLAN
L-DA-501	LANDSCAPE SECTIONS 01
L-DA-502	LANDSCAPE SECTIONS / ELEVATION 02
L-DA-503	LANDSCAPE SECTIONS / ELEVATION 03
L-DA-504	LANDSCAPE SECTIONS 04
L-DA-505	LANDSCAPE SECTIONS 05
L-DA-506	LANDSCAPE SECTIONS 06
L-DA-507	LANDSCAPE SECTIONS 07