



16<sup>th</sup> March 2020

The Planning Secretary  
Department of Planning, Industry & Environment  
320 Pitt Street  
Sydney, NSW 2000

Attention: Megan Fu  
Project: Nihon University Newcastle Campus - SSD 9787  
Re: Conditions of Consent C15

Dear Megan,

Reference is made to SSD 9787 Conditions of Consent C15 in relation to the Stormwater Management System requirements for the project.

Confirmation is provided that the design of the operational stormwater management system for the development has been prepared in consultation with Newcastle City Council and submit it to the Certifier. For the Department's records the following correspondence is attached:

- design certificates from Cardno, suitably qualified and experienced civil engineers engaged by Nihon University to design of the operational stormwater management system:
- letter of approval from Newcastle City Council on the consultation and the documentation submission.

The attached correspondence along with the documents referred to the correspondence has been submitted to the Certifier as part of Construction Certificate Application CC#01. Should you require further information on the updated plan please feel free to contact either Katherine Daunt or Edward Clode at dwp Australia Pty.

Yours sincerely,



Edward Clode  
Design Director  
Registered Architect – NSW ARBN 4100  
Email: [edward.c@dwp.com](mailto:edward.c@dwp.com)  
File: 17-0347\_A-d01-20\_let  
Encl.: Civil Design Certificates - Cardno,  
Newcastle Council Letter of Approval



Our Ref: 81019007:SGB  
Contact: Katherine Daunt

6 March 2020

DWP  
16 Telford Street  
**Newcastle NSW 2300**

Attention: Katherine Daunt

**Cardno (NSW/ACT) Pty Ltd**  
ABN 95 001 145 035

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Gosford NSW 2250  
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Dear Ms Daunt,

**NIHON UNIVERSITY NEWCASTLE CAMPUS  
CIVIL DESIGN STATEMENT FOR CC1  
STORMWATER MANAGEMENT SYSTEM**

The civil engineering design for the abovementioned works was prepared by Cardno as shown on our drawing list included in Attachment A.

We confirm that the design works have generally been carried out in accordance with the following:

- a. Australian Standard AS/NZ3500.3:2018 – Plumbing and Drainage: Stormwater Drainage
- b. Condition No C15 of Development Consent SSD-9787 (Nihon University Newcastle Campus), NSW Government: Department of Planning, Industry and Environment, dated 11 December 2019

This advice shall not be construed as relieving any other party of their responsibilities or contractual obligations and is not intended to constitute a Certification under the EP&A Act.

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,

Scott Brisbin  
BE(Civil); DipEngPrac; DipPM; MIEAust; CPEng; NER; APEC Engineer; IntPE(Aus)  
Civil Design Manager  
for Cardno  
Direct Line: +61 2 4320 1007  
Email: [Scott.Brisbin@cardno.com.au](mailto:Scott.Brisbin@cardno.com.au)

Enc: Attachment A: Drawing List

cc: BUILT Pty Ltd

## Attachment A: Drawing List

81019007-CI-300	COVER SHEET, DRAWING LIST & LOCALITY PLAN
81019007-CI-305	CONSTRUCTION NOTES
81019007-CI-310	SITE PLAN
81019007-CI-312	LAYOUT PLAN
81019007-CI-315	STORMWATER LONGITUDINAL SECTION
81019007-CI-320	PIT DETAILS - SHEET 1
81019007-CI-321	PIT DETAILS - SHEET 2

81019007-CI-400	COVER SHEET, DRAWING LIST & LOCALITY PLAN
81019007-CI-405	CONSTRUCTION NOTES
81019007-CI-410	SITE PLAN
81019007-CI-415	STORMWATER MANAGEMENT PLAN
81019007-CI-416	OVERLAND FLOW PLAN
81019007-CI-420	SUBSOIL DRAINAGE PLAN
81019007-CI-450	DETAIL PLAN
81019007-CI-480	EROSION AND SEDIMENT CONTROL PLAN
81019007-CI-491	SUBSTATION DETAILS

Our Ref: 81018024:TH  
Contact: Katherine Daunt

6 March 2020

Azusa Sekkei  
c/o dwp  
14 Telford St,  
**Newcastle East NSW 2300**

Attention: Katherine Daunt

**Cardno (NSW/ACT) Pty Ltd**  
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Dear Katherine,

**STRUCTURAL DESIGN STATEMENT – NIHON UNIVERSITY  
CUSTOM CONCRETE JUNCTION PIT 'D3' IN STORMWATER EASEMENT**

This letter is to confirm that the structural engineering design for the abovementioned item was undertaken by Cardno as shown on the Issued For Construction documentation as per the drawing list included in Attachment A.

We confirm that the design works have generally been carried out in accordance with the following relevant design codes and accepted engineering principles:

- a. AS/NZ1170 Structural Design Actions;  
Part 1 – Permanent, Imposed and Other Actions
- b. Australian Standard AS3600 – Concrete Structures
- c. Australian Standard AS4678 – Earth Retaining Structures

This advice shall not be construed as relieving any other party of their responsibilities or contractual obligations and is not intended to constitute a Certification under the EP&A Act.

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Cosmo Farinola  
Business Unit Manager - Buildings  
for Cardno  
Direct Line: +61 2 9496 7749  
Email: [cosmo.farinola@cardno.com.au](mailto:cosmo.farinola@cardno.com.au)  
Enc: Attachment A: Drawing List

## **Attachment A: Drawing List**

### **Civil Drawings**

81019007 CI-300	Cover Sheet, Drawing List and Locality Plan
81019007 CI-305	Construction Notes
81019007 CI-310	Site Plan
81019007 CI-312	Layout Plan
81019007 CI-315	Stormwater Longitudinal Section
81019007 CI-320	Pit Details 1
81019007 CI-321	Pit Details 2

13 March 2020

Scott Brisbin  
Cardno  
34/205-207 Albany Street North  
**GOSFORD NSW 2250**

Dear Scott

**Stormwater Diversion – Nihon University – SSD-9787**

Reference is made to condition C15 of development consent dated 11 December 2019, regarding the stormwater diversion of part of the City of Newcastle's (CN) existing stormwater system within the building site.

Following our consultation it is advised that CN is now satisfied that the works documented in the plans tabled below meet CN's design requirements and will provide an acceptable level of access to allow CN to maintain the stormwater asset, as required, in the future.

**Approved Drawings**

Project Number	Drawing Number	Rev.	Title	Prepared By	Date
	81019007-CI-300	2	Cover Sheet, Drawing List & Locality Plan	Cardno Consulting Engineers	06/03/2020
	81019007CI-305	2	Construction Notes	Cardno	06/03/2020
	81019007CI-310	2	Site Plan	Cardno	06/03/2020
	81019007CI-312	2	Layout Plan	Cardno	06/03/2020
	81019007CI-315	2	Stormwater Longitudinal Section	Cardno	06/03/2020
	81019007CI-320	2		Cardno	06/03/2020
	81019007CI-321	2		Cardno	06/03/2020
17-0347	AA035	4	Level 1 Stormwater Diversion Plan	dpw	04/03/2020
17-0347	AA102	3	Level 2 Stormwater Diversion Plan	dpw	04/03/2020
17-0347	AA501	3	Site Sections Stormwater Diversion	dpw	04/03/2020

**Drainage Easement**

In relation to the proposed 3m wide drainage easement as required under condition E7 of the development consent CN requests that the easement be setup to provide a height of 4.5m, above the finished surface levels, within the building section of the easement.

## **Floor Finish**

The floor over the easement within the building should be plain concrete, with butt joints in the longitudinal easement boundary and regular transverse joints, to minimise disturbance should the pipeline require replacement.

## **Construction Supervision**

CN requests that to satisfy conditions E4 and E6 of the development consent that the stormwater drainage diversion works are to be inspected, during construction, by Council's representative. Inspections are to be arranged at not less than the following key stages.

- Trench and bedding prior to laying of pipes;
- Pipes prior to backfill;
- Pits prior to backfill;
- Backfill prior to capping; and
- Final inspection.

The developer shall nominate a site representative who has authority to request inspections and to deal with site instructions from Council's representative as and when required. Inspections will be carried out between the hours of 7.30am and 3.00pm, Monday to Friday. Notice shall be given to Council's representative, as early as possible, on phone number 4974 6039 or 0407 252412.

## **CCTV Inspection**

CN requests that to satisfy conditions E4 and E6 of the development consent that on completion of the works the contractor must organise a CCTV inspection of the pipeline in accordance with CN's specifications under Newcastle Development Control Plan 2012. Any identified defects will need to be rectified.

Should you have any questions in relation to the above matters please contact me on 4974 2054.

Yours faithfully



**Steven Masia**  
**ENGINEERING ASSESSMENT COORDINATOR**