PROJECT: NIHON UNIVERSITY NEWCASTLE CAMPUS

Monthly Project Control Group Report

Date Issued	26.06.2020
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Status	☐ Draft ☒ Approved
Prepared By	Ben Moss (Built Pty Ltd)

TEMPLATE OWNER: ENTERPRISE PROJECT CAPABILITY (v 12 DEC 10)

Table of Contents

Document Control **3**

1. Introduction **4**

2. Project Details **4**

3. Report **5**

3.1 HSE Overview 5
3.2 Community Liaison Overview 6
3.3 Audits & Monitoring 7
3.3.1 Internal Audits & Monitoring *7*
3.3.2 External Audits & Monitoring *9*
3.4 Contract Programme Status 10
3.4.1 Construction Progress Update *10*
3.4.2 Current Construction Activities *10*
3.4.3 Upcoming Construction Activities (July 2020) *11*
3.4.4 Potential Issues *11*
3.4.5 Statused Contract Programme *12*
3.4.6 Four Weekly Look Ahead *12*
3.5 Progress Photos 13
3.5.1 Building A – Education *13*
3.5.2 Building B – Heritage Courthouse *21*
3.5.3 Building C – Residential *34*
3.5.4 External *46*
3.6 Design Update 56
3.6.1 Architectural *56*
3.6.2 Structural & Civil *56*
3.6.3 Hydraulic Services *56*
3.6.4 Electrical Services *56*
3.6.5 Mechanical Services *56*
3.6.6 Fire Services *56*
3.6.7 Fire Engineering *56*
3.6.8 Green Star *56*
3.7 Authorities & Approvals 57
3.7.1 NSW Dept. Planning & Environment *57*
3.7.2 City of Newcastle *57*
3.7.3 Ausgrid *57*
3.7.4 Jemena *57*
3.7.5 Hunter Water *57*
3.7.6 NBN & TPG *57*
3.7.7 SANSW *57*
3.8 Outstanding RFIs 58
3.9 Cost & Time 61
3.9.1 Head Contract Progress Claim Schedule *61*
3.9.2 Project Variation Register *61*
3.9.3 Notice of Delay & Extension of Time Register *62*
3.10 Recycling Records 63

4. Appendices **64**

Document Control

Revision History

Version	Author	Issue Date	Changes
Draft A	Ben Moss	16.01.2020	Draft Report
Rev 1	Ben Moss	20.01.2020	Approved
PCG Report 01	Ben Moss	31.01.2020	January 2020
PCG Report 02	Ben Moss	28.02.2020	February 2020
PCG Report 03	Ben Moss	27.03.2020	March 2020
PCG Report 04	Ben Moss	29.04.2020	April 2020
PCG Report 05	Ben Moss	29.05.2020	May 2020
PCG Report 06	Ben Moss	26.06.2020	June 2020

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1. Introduction

Built NSW Pty Ltd has been engaged by Nihon Daigaku Australia Newcastle Pty Ltd, c\o Azusa Sekkei & dwp Australia Pty Ltd to undertake the project and works associated with the redevelopment of the existing heritage listed Newcastle Courthouse site for the new Nihon University Newcastle Campus located at 9 Church Street, Newcastle NSW Australia.

Built NSW has been engaged under a Design & Construct (D&C) Contract for the Services and Structural (excluding Heritage Building) packages whilst all other packages are Construct Only.

The project consists of the complete demolition of two existing three storey buildings, site remediation (including the management of any resultant contamination, mine workings and/or archaeological findings), the restoration and refurbishment of the retained and state heritage listed Newcastle Courthouse building and the construction of two new four storey buildings comprising student accommodation in the eastern building and teaching space\carpark in the western building.

2. Project Details

Date of Site Report: 26th June 2020

Prepared by Company: Built Pty Ltd

Address: Level 1, 155-157 Lambton Rd, Broadmeadow, NSW 2290

Contact: Rob McLaughlin

Phone: 02 4077 5906 **Email: robertmclaughlin@built.com.au**

Project No: 201229

Project Name: Nihon University Newcastle Campus

Address: 9 Church Street, Newcastle, NSW 2300

Client: Nihon Daigaku Australia C/O Azusa Sekkei

Architect / Head Contract Administration: dwp Australia Pty Ltd

Superintendent's Address: 16 Telford Street, Newcastle East, NSW 2300

Contact: Ed Clode

Phone: 02 4926 5222 **Email: Edward.c@dwp.com**

3. Report

3.1 HSE Overview

The project team and site personnel demonstrated excellent HSE performance in June 2020. A total of three first aid incidents occurred, however all workers were able to return to work and corrective actions completed. As construction activity continues to increase, the focus will be on identifying potential hazards in advance and implementing the required control measures through communication and detailed planning. A summary of HSE issues for June 2020 is outlined in Table 1 below.

The HSE Incident Register is attached in **Appendix A.**

Table 1: HSE Incident Summary

DATE OF ISSUE	BRIEF SUMMARY OF ISSUE	CORRECTIVE ACTION COMPLETED
16/06/2020	**First Aid Incident** Water splashed in bricklayers' eye from cement mixer.	• Subcontractor completed a toolbox/pre-start meeting instructing workers to use eye protection when working with mixers.
20/06/2020	**First Aid Incident** Worker rolled their ankle whilst moving temporary fence panel.	• Toolbox/pre-start meeting completed on manual handling.
24/06/2020	**First Aid Incident** Worker cut (minor) finger whilst assembling mobile scaffold.	• Workers instructed to wear gloves when completing similar works.

3.2 Community Liaison Overview

In accordance with SSD-9787 Conditions of Consent and BUILT's Community Liaison Plan, BUILT has liaised with nearby residents, businesses, and organisations. BUILT intends to work closely with our neighbours for the duration of the Nihon University project by regularly updating and consulting stakeholders on upcoming works and overall construction progress.

BUILT has also established a Community Liaison email account (nihon@built.com.au) that is monitored by the Community Liaison Officers daily and a 24-hour contact number is present on project signage located on Church Street access gates.

BUILT maintains a register of all community complaints, notices, and queries received to ensure compliance with SSD conditions and reporting requirements.

A brief summary of community liaison in June 2020 is outlined in Table 2 below.

The Community Liaison Register is attached in **Appendix B**.

Table 2: Community Liaison Summary

DATE OF ISSUE	BRIEF SUMMARY OF ISSUE	RESPONSE / ACTIONS COMPLETED
04/06/2020	**REF: 2006-CN013** Pre-Commencement Meeting held onsite at Nihon University with Hunter Water, dwp Australia, Metiri Consultants, Built, and Murphy Plumbing to discuss the upcoming watermain upgrade works.	• Hunter Water & Metiri Consultants advised of pre-commencement documentation to be submitted prior to commencing works. • All actions closed and approval received.
05/06/2020	**REF: 2006-CN014** Site Meeting held with Newcastle Police Station to advise of and discuss upcoming road / lane closures on Church Street during Hunter Water works and erection of Tower Crane. Post-meeting, Built submitted the TMPs to NPS for information and comment if required.	• No additional feedback/comments received. • No further action required.
05/06/2020	**REF: 2006-CN015** Additional Community Notice issued to residents and businesses advising of Hunter Water Upgrade & Crane Erection works commencing.	• Received one query from a resident requesting additional information. • Received query from HNE James Fletcher Hospital clarifying if their driveway access would be affected. • Built issued a Staging Plan and additional information on the works. • No further comments received. • No further action required.
24/06/2020	**REF: 2006-CN016** Site Meeting and inspection held with Hunter New England Health, dwp Australia, Built, and Murphy Plumbing to discuss upcoming Sewer Main Upgrade requiring access to HNE property.	• HNE granted access permission • Built to provide 2 days' notice prior to commencement of works.

3.3 Audits & Monitoring

Throughout the Nihon University Newcastle Campus project, Health, Safety, Environmental & Quality (HSEQ) Audits will be undertaken internally by Built and externally by an Independent Third-Party Auditor (GHD Group Pty Ltd Newcastle) in compliance with both Built Management Systems (AS/NZS ISO 14001 & AS/NZS ISO 9001:2016 accredited) and SSD-9787 Development Consent Conditions.

Built has engaged a qualified and experienced Acoustic Consultant, RAPT Consulting (RAPT) to conduct noise and vibration monitoring throughout the duration of the project as required by the Construction Noise and Vibration Management Sub-Plan. Built's Project HSE Officer also conducts noise level spot checks on current construction activities, plant, and equipment.

A summary of these audit and monitoring activities is outlined in Sections 3.3.1 & 3.3.2 below.

3.3.1 Internal Audits & Monitoring

RAPT Consulting conducted vibration monitoring between 22nd to 28th May 2020 during the installation of temporary ground anchors and CFA piles to the south-western corner of the site. The report was issued on 1st June 2020 and therefore included in the June 2020 PCG Report.

The Built project team completed a total of 54 HSE site inspections and monitoring activities throughout June 2020 with 9 corrective actions assigned as a result.

Table 3 below outlines the total number of activities completed by Built during June 2020. All activities are completed and recorded electronically using the Built.Safe software platform.

Table 3: Monthly Record of Internal HSE Activities Completed

ACTIVITY	DESCRIPTION	COMPLETED	ACTIONS
Site Inspection	Inspection of the site or specific work areas to identify potential HSE hazards and verify the implementation and effectiveness of management measures.	15	6
Plant Inspection	Inspection of plant and equipment to check it is fit for use prior to being permitted to use onsite or to re-inspect after a significant breakdown, damage, or expiry of a plant induction sticker.	22	0
Monitoring	Used to monitor construction activities compliant with the processes outlined in the Project HSE Management Plans and requirements of development approvals and permits.	13	2
BSMS Review	Review of the implementation and effectiveness of the Built Safe Mandatory Standards (controls) in relation to process risks such as scaffolding, temporary works, demolition, FRP concrete, and asbestos.	1	0
Noise Level Spot Check	Used to monitor noise levels at sensitive receiver locations, specific work areas, construction activities, and plant/equipment.	2	0
Audit – Internal HSE Plan	Used to monitor and measure the implementation of the HSE Plan by the project.	0	0
	TOTAL	**54**	**9**

Key activities completed and those requiring corrective actions to be assigned are summarised in Table 4 below.

Copies of these key monitoring and inspection records are attached in **Appendix C.**

Table 4: Internal Audit and Monitoring Activity Summary

DATE OF ACTIVITY	BRIEF SUMMARY OF ACTIVITY	CORRECTIVE ACTIONS COMPLETED
22/05/2020 to 28/05/2020	**Vibration Monitoring – SW Shoring Wall** RAPT Consulting conducted vibration monitoring during the installation of temporary ground anchors and CFA piles to the south-western corner of the site. A monitor was placed adjacent to the existing retaining wall on the HNE James Fletcher Hospital site. Results from the monitoring period showed that all measurements were safely within the adopted guideline values.	• Nil
02/06/2020	**Monitoring – Building C** Monitoring of construction activities including formwork and piling identified works were in generally in accordance with SWMS & Built HSE Plans. It was identified that mobile plant was working near form workers.	• Exclusion zones better established around piling rigs. • Caps were to be placed on star pickets and exposed reinforcement bars where missing.
04/06/2020	**Noise Level Spot Check** Routine noise level monitoring completed at three identified sensitive receiver locations. Location 1 – 20 Church St: 64.7dB(A) Location 2 – 38 Church St: 64.2 dB(A) Location 3 – Hospital Boundary: 53.8 dB(A)	• Nil
09/06/2020	**Site Inspection – Whole of Site** Inspection of site after a weekend of heavy rain. Identified site was generally clean and tidy, sediment control measures in place, exclusion zones established though required reinstatement in some areas, Church street clean, no damage to hoardings, and access paths relatively clear.	• Building A access path cleared of trip hazards. • Mini excavator identified near live edge and was moved. • Building C access path was widened and falling objects hazard removed. • Flagging/exclusion zones re-established. • Exposed reinforcement capped. • Toolbox meeting held for general housekeeping.
15/06/2020	**Noise Level Spot Check** Routine noise level monitoring completed at two identified sensitive receiver locations. Location 1 – 20 Church St: 68.3 dB(A)	• Nil

	Location 2 – 38 Church St: 59.7 dB(A)	
18/06/2020	**Site Inspection – Building A, B, C** Inspection of civil works within Building A, demolition works within Building B, and earthworks in Building C. Access paths were clear, good use of PPE was noted, temporary electrical boards were checked, and workers advised of change of emergency muster point.	• Areas around temporary electrical boards inspected and cleared of materials stored adjacent.
23/06/2020	**Site Inspection – Whole of Site** Traffic management in accordance with TMP, footpaths and work zone clean, truck logs completed, plant inducted and logbooks signed, sediment control in place, dust suppression implemented, no damage to hoarding, and spoil bins for drill rigs present.	• Nil

3.3.2 External Audits & Monitoring

There were no external audits or monitoring conducted during June 20202, however, the second Independent Environmental Audit is scheduled to be completed by GHD on 26th August 2020.

3.4 Contract Programme Status

3.4.1 Construction Progress Update

The following construction activities have been completed during the reporting period:

Key Project Milestones Achieved:

- Demolition complete

Preliminary Items:

- Erection and commissioning of Tower Crane complete

Civil, Piling & Retention Works:

- Residential Building - Formwork, Reinforcement, Concrete (FRP) to Southern Retaining Wall complete
- Education Building - Stressing of temporary ground anchors completed
- Education Building – Bulk excavation completed
- Education Building – Reinforcement, Drainage, and Shotcrete to South Western Shoring Wall completed
- Education Building – Piling platform completed

Piling Works:

- Residential Building – CFA Foundation Piles completed
- Residential Building – CFA Piles to Southern wall completed

Structure Works:

- Residential Building – Pile trimming complete
- Residential Building – FRP Lift Pits complete
- Residential Building – FRP Crane Base complete

3.4.2 Current Construction Activities

The following construction activities are currently underway on site and progressing well:

Building A – Education

- Mine subsidence drilling

Building B – Heritage

- Structural repairs & strengthening to Level 1 (basement) floor joists & infills
- Excavation in Level 1 (Book Storage)
- Installation of steel lintels to new openings on Level 1
- Brickwork/masonry on Level 1
- Rough-in of hydraulic services to Level 1 & Level 2

Building C – Residential

- Waterproofing membrane to southern retaining wall and lift pit
- Stormwater diversion works

- Detailed excavation for structural elements & rainwater tanks

External Works:

- Hunter Water watermain upgrade on Church Street

3.4.3 Upcoming Construction Activities (July 2020)

The following construction activities outlined below are expected to commence in July 2020:

Building A – Education

- Mine subsidence drilling and grouting
- CFA foundation piles
- FRP pile caps & capping beams

Building B – Heritage

- External waterproofing to existing heritage walls
- Structural underpinning to Level 1
- Structural repairs and strengthening to Level 2 & 3
- FRP concrete slabs to Level 1 Amenities
- Installation of rainwater tanks & backfill

Building C – Residential

- Blockwork to Southern retaining wall
- In-ground services – Hydraulics & Electrical
- Detailed excavation for footings and tie beams
- FRP Level 1 slab on ground
- FRP Level 1-2 vertical elements (columns, walls)

External Works

- Hunter Water sewer main upgrade
- Final connection for Hunter Water water main upgrade

3.4.4 Potential Issues

BUILT regularly reviews the construction programme to identify issues that have the potential to impact time, cost, and quality aspects of the project. The following issues have been flagged for attention:

a) Recent conditions imposed by SANSW regarding the Borehole Seam mine workings and structural adequacy of the Heritage Courthouse. The information requested has been provided, though acceptance is pending.
b) City of Newcastle approval process for Section 138 application for Public Domain Works
c) The extent of termite and water damage within the Heritage Courthouse
d) The extent of contaminated soil and remediation risk for rear of Building B and external works

e) COVID-19 global pandemic potential risk to construction activities and procurement

f) Additional Archaeological investigations within areas yet to be excavated.

g) Risk of existing services within the Public Domain potentially affected by Section 138 Works.

h) Existing fibre optic cable located beneath Building C driveway may need to be relocated deeper to allow for the required civil works.

3.4.5 Statused Contract Programme

A copy of the statused Contract Programme for June 2020 is attached in **Appendix D.**

3.4.6 Four Weekly Look Ahead

A Four Week Programme for July 2020 is attached in **Appendix E**. This programme shows works still underway and commencing prior to the end of July 2020.

3.5 Progress Photos

The following progress photos were taken in June 2020.

3.5.1 Building A – Education



Photo 01: Bulk excavation and preparation for final shotcrete to south-west shoring wall



Photo 02: Reinforcement being fixed to south-west shoring wall



Photo 03: Reinforcement complete on south-west shoring wall

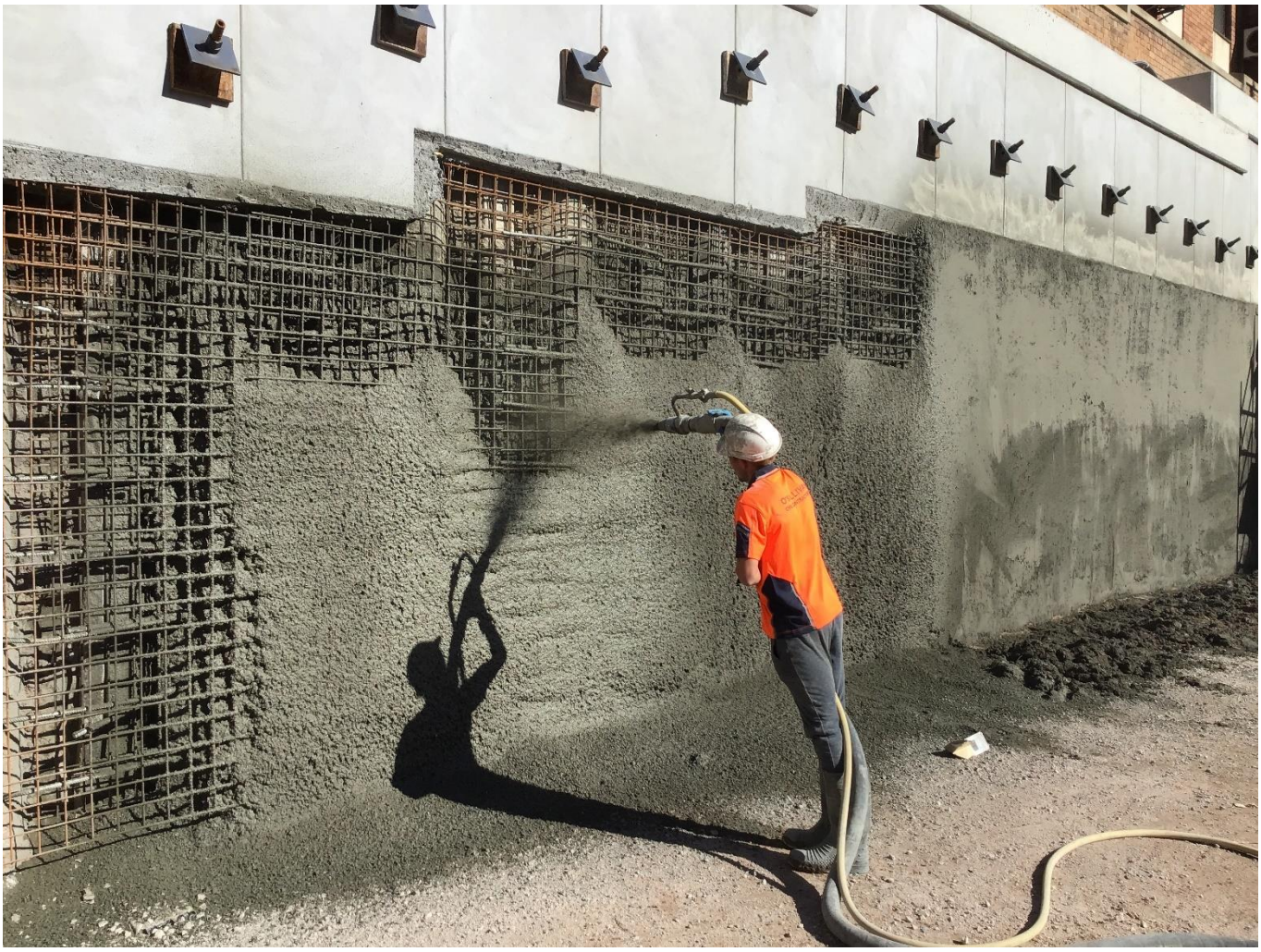


Photo 04: Shotcrete being placed to south-west shoring wall



Photo 05: View of Building A looking south toward completed shoring wall. Note mine subsidence drill rigs on the left.



Photo 06: View of Building A site looking North toward Church Street gate.



Photo 07: View of Heritage Courthouse from Building A site.



Photo 08: Mine subsidence drilling in progress.

3.5.2 Building B – Heritage Courthouse



Photo 09: Level 1 (Basement) brickwork and infills.



Photo 10: Level 1 brickwork and steel lintels to new openings.



Photo 11: Level 1 excavations to new Book Storage Room



Photo 12: Level 1 excavations, openings, brickwork and structural steel beams in Book Storage Room



Photo 13: Floor removed in new Lift Lobby area



Photo 14: Opening made in external wall within new Lift Lobby area



Photo 15: New floor infill on Level 2.



Photo 16: New floor joists & strengthening



Photo 17: Propping installed to new openings on Level 2



Photo 18: Propping to new opening on Level 2



Photo 19: Floor strengthening and repairs in progress on Level 2



Photo 20: Existing opening bricked up and new door opening created on Southern façade



Photo 21: Heritage footings and elements uncovered at the rear of Building B after investigations by AMAC

3.5.3 Building C – Residential



Photo 22: Crane Base reinforcement



Photo 23: Crane Base with Hold Down Bolts installed



Photo 24: Crane Base after pour



Photo 25: Crane Base after backfill & tensioning of Hold Down Bolts



Photo 26: Stair capping prior to concrete pour



Photo 27: Stair capping after concrete pour and backfill



Photo 28: View of Heritage Courthouse looking West



Photo 29: Stormwater pipe & pits adjacent to the Southern boundary



Photo 30: Stormwater pits adjacent to Southern boundary after backfill



Photo 31: Capping beam & column starter bar reinforcement

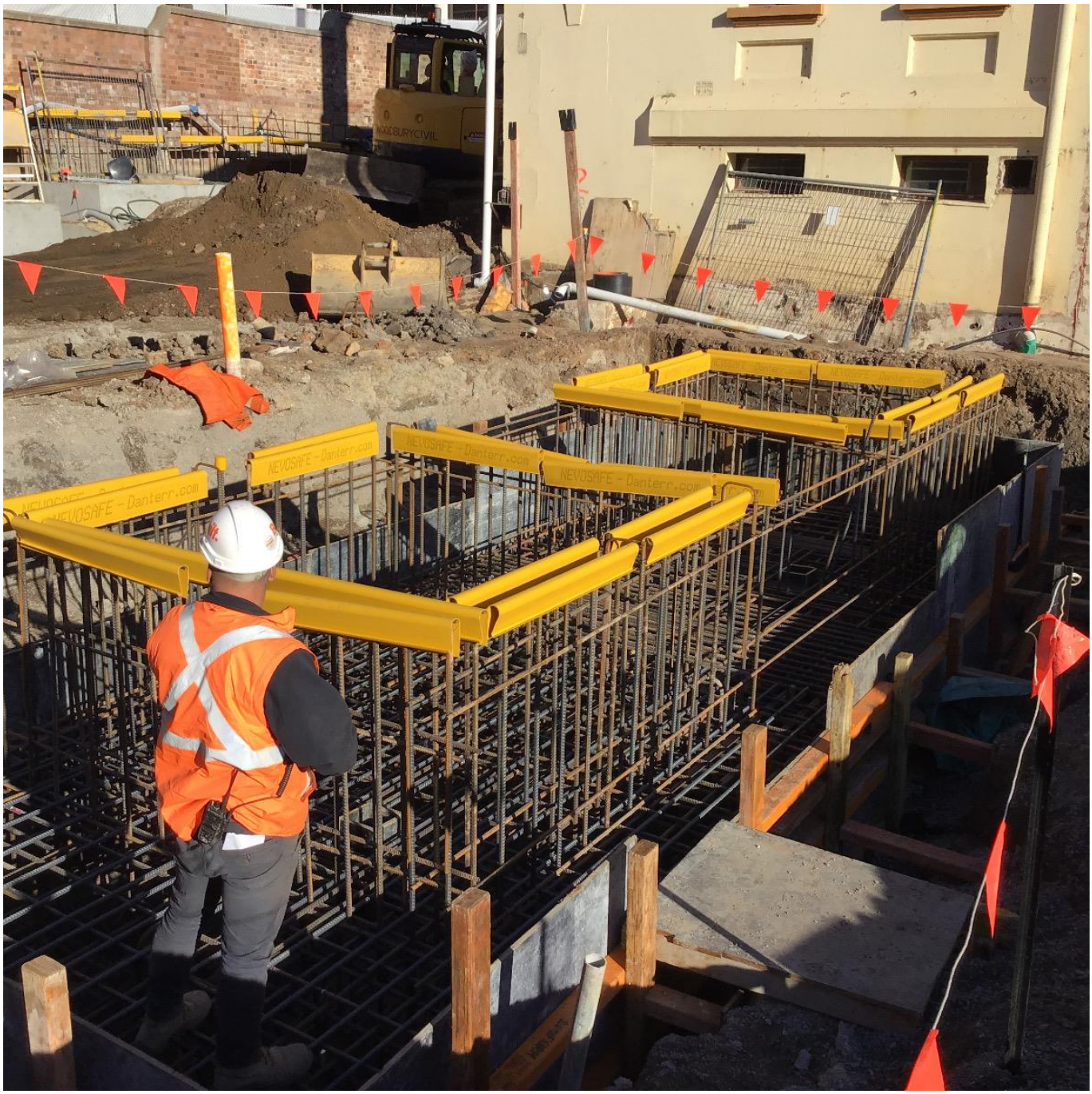


Photo 32: Lift Pits prior to concrete pour



Photo 33: Lift Pits post-concrete pour

3.5.4 External



Photo 34: Time lapse photo taken of site on 01/06/2020 showing piling rig and earthworks

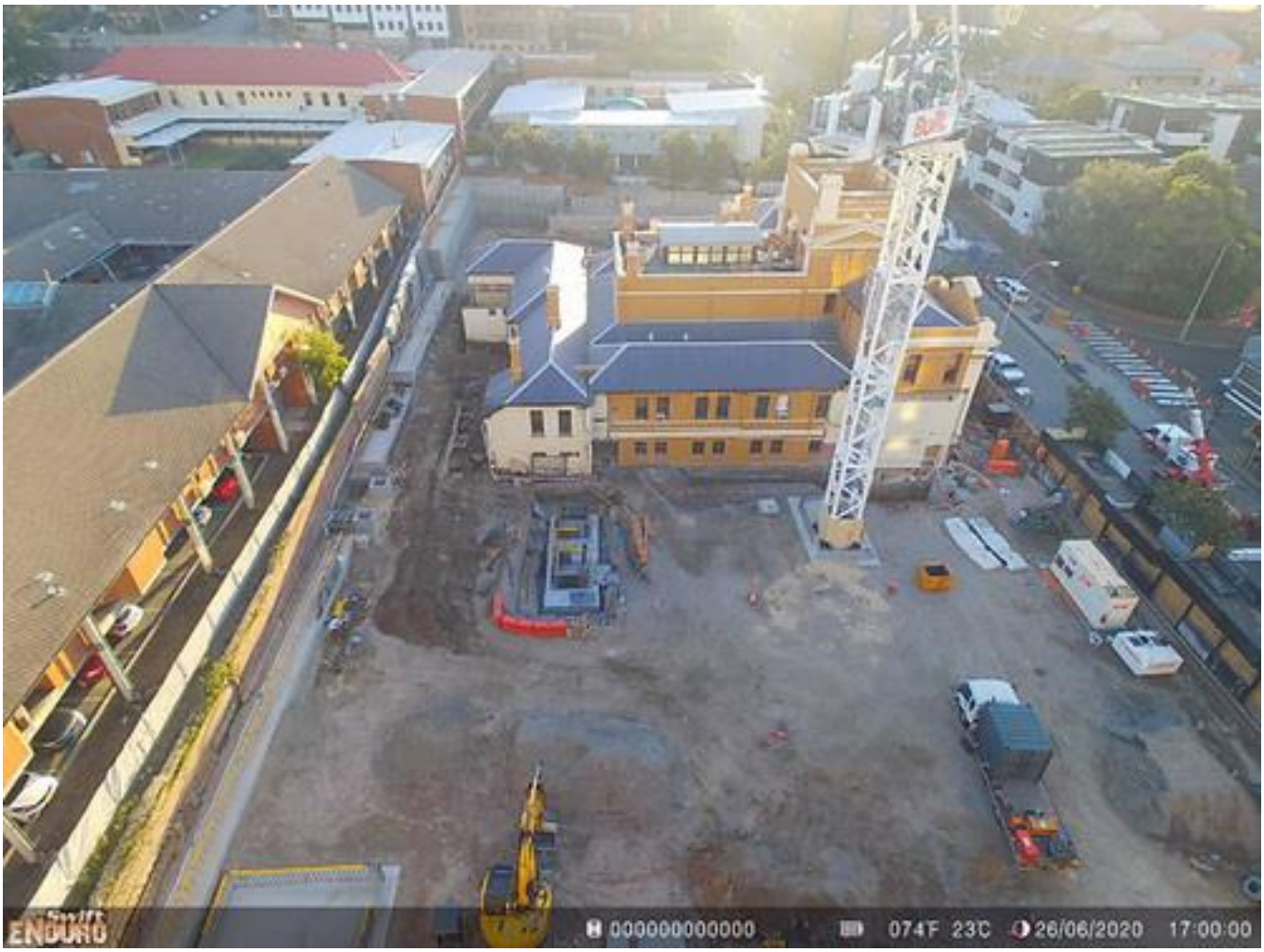


Photo 35: Time lapse photo taken of site on 26/06/2020 showing tower crane and concrete foundation elements



Photo 36: View of Church Street looking East showing Stage 1 of the Hunter Water watermain upgrade works



Photo 37: View of Church Street looking West showing Stage 1 of the progress of the watermain upgrade works



Photo 38: Tower Crane assembly and lifting from Church Street



Photo 39: Tower Crane assembly and lifting from Church Street looking South from Bolton Street



Photo 40: Lifting in progress



Photo 41: View of the site, tower, and crane base from Level 3 of Heritage Courthouse



Photo 42: View of the Courthouse from Church Street during the lift and install of the tower



Photo 43: View of the Courthouse from top of Church Street looking South East. Note Stage 2 Hunter Water Works in the foreground.

3.6 Design Update

3.6.1 Architectural

- Revised Architectural AFC drawings were issued on 19/06/20 to include co-ordination resolution, various changes, and additional setout and detailing.

3.6.2 Structural & Civil

- Revised structural AFC drawings to be issued shortly following resolution of the Heritage and Education building connections.
- AFC Structural drawings for Heritage Building were received on 22/06/20.
- Cardno submitted revised civil drawings on 22/06/20. There are still some amendments required to the Carpark following revised falls and additional pit.

3.6.3 Hydraulic Services

- Dwp and Built carried out review of AFC Hydraulic drawings and revised drawings to be issued shortly
- Hydraulic Services specification was re-issued on 22/06/20 following review by Marline.

3.6.4 Electrical Services

- Revised Electrical Services AFC drawings were issued on 22/06/20 following review from Built and dwp.
- Electrical Services specification was re-issued on 22/06/20 following review by Marline.

3.6.5 Mechanical Services

- Revised Mechanical Services AFC drawings were issued on 22/06/20 following review from Built and dwp.

3.6.6 Fire Services

- Fire Services drawings still to be revised following review carried out by dwp and Built.

3.6.7 Fire Engineering

- Only outstanding issue is the certification of the WS1 drenchers by Design Confidence.

3.6.8 Green Star

- A statused copy of the Green Star Pathway design items is attached in **Appendix F**.

3.7 Authorities & Approvals

3.7.1 NSW Dept. Planning & Environment.

- A statused version of the SSD-9787 Conditions Matrix has been attached in **Appendix G**

3.7.2 City of Newcastle

- Council provided a response on the pedestrian and street lighting and advised that no new lighting was required.
- Council have committed to assessing the S138 application by 3rd July. dwp to keep the pressure on their contacts at City of Newcastle to ensure this date is met.

3.7.3 Ausgrid

- Subcontractor has been procured for the Ausgrid works and shop drawings have commenced.
- dwp and Azusa to commence easement registration process so that the easement deed is in place prior to energisation of kiosk.

3.7.4 Jemena

- Jemena offer for connection is with Nihon University for approval.

3.7.5 Hunter Water

- Hunter Water and Metiri completing regular inspections of water main works.
- Hunter Water have completed their Hydraulic Assessment for the Section 50 Certificate and McCallum are updating their drawings to include minor changes.

3.7.6 NBN & TPG

- NBN application for broadband service into the site has been approved and an agreement has been sent to Nihon for their signature.
- NBN application to relocate pits and conduits that house the optic fibre has been lodged and NBN will send through agreement and invoice to commence the design and investigation works.
- TPG who own the optic fibre, will commence design and investigation to relocate the optic fibre on payment of the invoice, which has been sent to Azusa for payment.

3.7.7 SANSW

- Approval for Stage 2 will be sought on completion of grouting works to Education Building

3.8 Outstanding RFIs

(Generated from Aconex)

RFI Register							
Mail No.	**Subject**	**Sent**	**From (Company)**	**To (Company)**	**Status**	**Comments / Actions**	**Discipline**
BUILT-RFI-000074	Gas provision for fireplaces	26/02/2020	Built	Jun / dwp	Responded	**ON HOLD** Client waiting for final pricing before making a decision	Services
dwp AU-RFI-000099	Existing Court House downpipe survey results	15/04/2020	dwp	Built	Responded	Survey carried out today 18.06.2020. Survey details due this Friday 26th June	Services
dwp-AU-RFI-000123	Access panel locations	29/04/2020	dwp	Northrop	Responded	Access panels document. Significant increase from original qty. Wall access panels also required to be documented-(Room CL2.22 & CL3.22) Robert & Christian to resolve post meeting. contractors	Services
NE-RFI-000044	Roof drainage concept	29/04/2020	Northrop	Built / dwp	Responded	Built requested Cardno to confirm overflow drainage in ground is sufficient	Civil
Built-RFI-000253	Co-ordination of existing services with new footpath works	8/05/2020	Built	dwp/Cardno	Responded	dwp verbally advised that Council seeking to remove existing trees to front of site. Works booked in to be completed Friday 3rd July 2020	Civil
Built-RFI-000281	Structural Items to be Updated	18/05/2020	Built	Northrop	Responded	**ACTION**: Northrop to resolve outstanding issues in drawings to be issued early next week. Expecting 24th June	Structural
Built-RFI-000286	Superseded Specifications	20/05/2020	Built	dwp/Cardno	Responded	Northrop have updated specifications -dwp to mark Marline specifications as **No Longer in Use**	Services
BUILT-RFI-000332	Alternative Floor Finish to Kitchen	2/06/2020	Built	dwp	Responded	**ON HOLD** dwp/Asuza to review with final costings. Samples available for review	Architectural
BUILT-RFI-000339	Greenstar Credit 17, 19B.2 & 19B.3 for assessment	9/06/2020	Built	Woods & Grieve	Outstanding	Approved 17, 19B.3 - Built reviewing take off for steel for credit 19B.2. Built confident credit will be achieved	Greenstar

RFI Register							
Mail No.	**Subject**	**Sent**	**From (Company)**	**To (Company)**	**Status**	**Comments / Actions**	**Discipline**
dwp AU-RFI-000163	17-0347 Nihon University |Heritage Courthouse Roof Drainage	12/06/2020	dwp	Built	Responded	Built completed survey - Details to be provided this Friday 26th June	Services
dwp AU-RFI-000164	Services Specification Reviews by Marline	15/06/2020	dwp	Built	Responded	Electrical & hydraulic complete. Mechanical to be revised	Services
BUILT-RFI-000351	Level 1 Courthouse Amenities Setout	17/06/2020	Built	dwp	Responded	Set outs for sanitary drainage Level 1 amenities & courthouse - inconsistencies in set outs, tile thicknesses, wall type in showers - Due 19.06.20	Architectural / Services
BUILT-RFI-000352	Inground Drainage Set outs for Kitchen	17/06/2020	Built	Frost	Responded	Setout for drainage	Services
dwp AU-RFI-000169	Residential Lift programming and call functions	24/06/2020	dwp	Built	Outstanding	Built to review optimal solution for calling and scheduling of lifts to Residential Building. Lift button locations also to be confirmed	Services
dwp AU-RFI-000170	Stair A2 Courtyard to Stair structure	24/06/2020	dwp	Northrop	Responded	Stairs to be cast on ground to terrace area between Education & Heritage	Structural
BUILT-RFI-000355	Door Frame Profiles	25/06/2020	Built	dwp	Outstanding	Door profile pictures	Architectural
dwp AU-RFI-000171	Footing enquiries at Concrete wall at Stair A2 and at Kiosk	25/06/2020	dwp	Northrop	Outstanding	Review of footing size for wall North of Stair A2 & review of footings adjacent to kiosk.	Structural
BUILT-RFI-000356	Safety risks of climbing façade screens	25/06/2020	Built	dwp	Outstanding	Recommendation to extend palisade fencing along Western boundary to HNE site due to safety risk of façade screens	Architectural

RFI Register							
Mail No.	**Subject**	**Sent**	**From (Company)**	**To (Company)**	**Status**	**Comments / Actions**	**Discipline**
BUILT-RFI-000357	Seepage Water and Low Point near Heritage Building	25/06/2020	Built	dwp	Responded	Water seepage/low spot in the north eastern corner adjacent the Administration Building where the Heritage walls continue down below the level 1 floor level. Pump out pit may be required.	Civil

3.10 Recycling Records

Built has engaged Central Waste Station to handle all the construction waste from demolition through to project completion. Central Waste has a resource recovery centre in Kurri Kurri where they sort, and recycle materials on-site, or send on to speciality recyclers, with a minimum amount of waste that is unable to be recycled then disposed of in licenced landfill sites. Central Waste Station is targeting a 90% materials recovery rate of all waste collected.

Each month, Central Waste will issue Resource Recovery Reports to Built specifically for this project which are included in the monthly PCG Report (**attached in Appendix H**).

For the month of June 2020, the Waste Recovery Percentages were:

- Demolition Waste - 99.16%
- Building Waste – 89.40%
- Waste Recovery Total = **98.83%**

4. Appendices

Appendix A – HSE Incident Monthly Register

Appendix B – Community Liaison Register

Appendix C – Internal Audit Records

Appendix D – Statused Contract Programme

Appendix E – Four Week Programme

Appendix F – Green Star Pathway Status

Appendix G - Statused SSD-9787 Conditions Matrix

Appendix H – Monthly Waste Recovery Reports

Appendix A – HSE Incident Monthly Register

Monthly HSE Incident Register

Built.

Project: Nihon University

Jun-20

Month	Labour Hours	First Aid Incident	Medical Treatment Incident	Lost Time Incident	Near Miss Incident	Notifiable Dangerous Incident	Environmental Incident *Includes complaints
Jan-20	2180	0	0	0	0	0	0
Feb-20	6500	0	0	0	1	0	1*
Mar-20	5930	0	1	0	0	0	3*
Apr-20	5070	0	0	0	0	0	7*
May-20	7700	0	0	0	1	0	1*
Jun-20	7100	3	0	0	0	0	0
TOTALS:	**34480**	**3**	**1**	**0**	**2**	**0**	**12**

Appendix B – Community Liaison Register

Community Liaison Register

Built.

Project: Nihon University

Complaints Register

Last Updated: 26/06/20

REF ID	DATE / TIME RECEIVED	RECEIVED FROM	DESCRIPTION	DATE / TIME RESPONDED	RESPONSE BY	DESCRIPTION	CLOSED (Y / N)
2001-CC001	21/01/2020 1:20pm	Tanya Way (JFH Employee)	Concerned about removal of trees at Southern Boundary & wildlife. Works at James Fletcher Hospital.	22/01/2020 9:00am	BM	Phoned Tanya to disuss her concerns and assure precautions were taken and removal is in accordance with SSD-9787. Followed up with email containing project information and NSW Planning Portal	Y
2002-CC002	27/02/2020 4:20pm	Tony Lawler (Resident)	Notified Built via email of cracks appearing within his property at 30 Church Street that were previously not noted. Believes demolition works occurring the past couple of days and vibration are the cause.	27/02/2020 5:06pm	BM	Phoned Tony to further discuss the issue raised. An inspection of the property has been arranged for 3:00pm 28/02/2020 with Tony, Built Project Manager and Structural Engineer who completed initial Pre-Construction Dilapidation Report. Follow up email sent to Tony at 5:26pm confirming details of phone complaint and inspection. Inspection Report submitted to Tony on 02/03/20 showing cracks identified and not worsened. Vibration monitor results received on 03/03/20 show compliance with structural levels.	Y
2003-CC003	9/03/2020 1:50pm	Jennifer Leslie (Resident)	Noise complaint received via phone call to Construction Manager Rob McLaughlin regarding noise prior to approved construction hours.	09/03/2020 1:58pm	BM	Built contacted Jennifer on her mobile number to discuss the issue. Jennifer stated that there was noisy vehicles and concerns of "loading of bricks and things in the morning" approximately between 4:30am to 6:30am. Upon review of CCTV footage, a large skip bin garbage truck and other heavy vehicle was seen on Bolton Street between 5-6:00am and not related to the Nihon Project. Built also spoke with Jennifer's neighbour Mark Hill, who confirmed the workers were related to a project on Bolton Street as he had confronted them that morning.	Y
2003-CC004	10/03/2020 4:06pm	Tony Lawler (Resident)	Tony lodged an additional complaint via email related to demolition works causing existing cracks to "enlarge" within his residence.	10/03/2020 4:23pm	BM	Built responded via email advising that vibration monitoring to date has shown compliant levels. It was requested that Tony submits photos of enlarged cracks for review by Structural Engineer prior to another inspection as it was found that all cracks were existing after his initial complaint. Built conducted 7 days of monitoring at Tony's residence between 13/03/2020 & 20/03/2020. Built issued Vibration Monitoring Report to Tony on 26/03/2020 showing that vibration results were well under the limits for both structural damage and human comfort.	Y

2003-CC005	19/03/2020 4:05pm	James Fletcher Hospital (JFH)	Architect/Superintedent notified Built of noise complaint lodged directly to DPIE regarding demolition works.	19/03/2020 4:40pm	BM	Built contacted JFH main contact, Nicole Halpin (Corporate Services Manager - Hunter New England Health) to discuss the complaint. Nicole advised that she was unaware of the issue and had received no internal complaints. Built conducted immediate spot check of demolition noise which showed works were within permissable noise limits. Built engaged acoustic consultant to conduct internal noise monitoring within JFH on 20/03/2020. Results came back compliant with construction noise limits & report was submitted to JFH for their records on 25/03/2020.	Y
2004-CC006	01/04/2020 12:59pm	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint by email to Nihon community liaison address regarding vibration causing discomfort	02/04/2020 2:11pm	BM	Response email sent noting concerns and advising of Built monitoring activities to maintain compliance with vibration criteria and minimise disruptions. Advised the resident to contact if there are any further concerns or structural changes noted.	Y
2004-CC007	03/04/2020 9:24am	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint by email to Nihon community liaison address regarding workers being spotted onsite without Hard Hats and not maintaining social distancing.	03/04/2020 10:22am	BM	Response email sent advising that Built takes HSE and social distancing measures seriously and that this concern has been immediately addressed with workers onsite. It must be noted that the workers were completing a pre-start talk and were outdoors in open space.	Y
2004-CC008	03/04/2020 1:16pm	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint in relation to 2004-CN009 Extended Working Hours advising of the Environmental Planning and Assessment (COVID-19 Development – Construction Work Days) Order 2020 being implemented onsite.	06/04/2020 3:05pm	BM	Response sent by email noting concerns and frustration. Also advised that Built is continuing to follow Government advice in response to COVID-19, will continue to monitor the situation and implement required measures. - Refer also to Community Notice (2004-CN010) sent on 06/04/2020	Y
2004-CC009	03/04/2020 3:15pm	Keran Davis (Resident)	Lodged complaint in relation to 2004-CN009 Extended Working Hours advising of the Environmental Planning and Assessment (COVID-19 Development – Construction Work Days) Order 2020 being implemented onsite.	6/04/2020	BM	Refer to Community Notice (2004-CN010) sent on 06/04/2020.	Y
2004-CC010	03/04/2020 9:13pm	Catherine Turner (Resident)	Lodged complaint in relation to 2004-CN009 Extended Working Hours advising of the Environmental Planning and Assessment (COVID-19 Development – Construction Work Days) Order 2020 being implemented onsite.	6/04/2020	BM	Refer to Community Notice (2004-CN010) sent on 06/04/2020.	Y

2004-CC011	6/04/2020 10:04am	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint in relation to alleged cracking of their property caused by groundworks onsite.	06/04/2020 12:20pm	BM	Built arranged for an inspection of the property to assess claim against conditions noted within Pre-Construction Dilapidation Report. Inspection completed by Structural Engineer on 08/04/2020 Inspection Report issued to the Resident on 09/04/2020 advising that in the Engineer's opinion, the cracks identified by the Resident were noted within the Pre-Construction Dilapidation Report and had not worsened. Resident disputed the findings of one of the identified cracks. Built responded that vibration monitoring of an adjacent property during the same period had demonstrated compliance with vibration criteria and that any disputes will be addressed after the completion and findings of the Final Dilapidation Reports required under the Development Consent Conditions. No further response received.	Y
2004-CC012	06/04/2020 1:40pm	Keran Davis (Resident)	Lodged complaint by email regarding extended working hours, social distancing, and a traffic management issue on 04/04/2020 (Saturday).	06/04/2020 4:13pm	BM	Referred the Resident to Community Notice (2004-CN010) for response to concerns regarding social distancing. Advised that the traffic management issue had been issued to the Site Team and Subcontractors for urgent action. Also requested that for any future issues, the Resident should contact Built PM or SM immediately to ensure matters are actioned quickly. Email received from City of Newcastle Councillor thanking Built for responding to the concerns of residents.	Y
2004-CC013	8/04/2020 9:48am	Michael Weightman (Employee - Newcastle Chambers)	Lodged complaint by email regarding noise caused by grinding activities onsite.	08/04/2020 11:58am	BM	Response stated Built's intention to minimise noise and conduct ongoing monitoring during construction, however, elimination of noise is not possible. Advised that structural demolition is nearing completion on the portion of site near his office. Note: Works were a short term activity located behind 2.4m plywood hoarding. No further response received	Y

2004-CC014	28/04/2020 2:42pm	Nicole Halpin (HNE)	Email correspondence received from HNE advising of internal complaints related to vibration causing activities and requesting information on construction monitoring activities and methodology mentioned within Community Notice (2004-CN011) Construction Progress Update 02.	28/04/2020 3:53pm	BM	Built responded via email advising of the current site activities and their expected completion date of 1st May and that previous monitoring had demonstrated compliance. Built also advised that vibration monitors had been collected on 28/04/20 and that the monitoring report would be submitted to HNE for transparency and their records. Built submitted the monitoring report to HNE on 01/05/2020 showing that the acceptable vibration dose levels for intermittent vibration related to human comfort had not been exceeded. No further issues raised.	Y
2005-CC015	21/05/2020 5:52am	Bernadette Connolly (Resident)	Email sent to Built Design Manager regarding noise when site personnel are arriving to site in the morning around 6:30am to 7:00am. Complaint specifically mentions noise generated by individuals talking as walking past the residence.	22/05/2020 3:38pm	BM	Email response sent advising of construction hours commencing at 7:00am and that Built would reinforce the need to be mindful of neighbours when arriving onsite of a morning. Resident responded with no further issues.	Y

Community Liaison Register

Built.

Project: Nihon University

Notices Register

Last Updated: 26/06/20

REF ID	DATE ISSUED	ISSUED TO	ISSUED BY	METHOD	DESCRIPTION	RESPONSES RECEIVED / DETAILS	CLOSED (Y / N)
1911-CN001	5/11/2019	ALL	SV	LETTER	Dilapidation Report request to nearby stakeholders - residents, businesses, etc.	Responses received from majority of stakeholders. Dilap reports completed by Engineer and submitted.	Y
1912-CN002	13/12/2019	James Fletcher Hospital	SV	MEETING	Consultation meeting with Hunter New England Health Management to discuss upcoming commencement of works, general scope, temporary fencing, boundary, etc.	Response received post-meeting that HNE Health would like the opportunity for NSW Dept. Public Works to review the works.	Y
1912-CN003	19/12/2019	ALL	BM	LETTER	Notice of commencement of works	NIL	Y
2001-CN004	21/01/2020	ALL	BM	EMAIL / LETTER	Notice of commencement of Asbestos removal	NIL	Y
2002-CN005	4/02/2020	Newcastle Police Station	BM / LA	MEETING	Meeting with Sgt Darren Holmes (Station Manager) to discuss shared lighting circuit requiring disconnection, noise mitigation & upcoming Work Zone Installation.	2002-CQ001	Y
2002-CN006	5/02/2020	NGS	BM	MEETING	Consultation meeting with Newcastle Grammar School Deputy Head of School & Director of Operations to discuss potential impacts and concerns regarding relocation of pedestrian crossing and proposed construction zone along Church Street site frontage.	Initial response was positive due to concerns around student & staff safety traversing past live site. Built issued additional information for review and suggested additional meeting if required.	Y
2002-CN007	19/02/2020	Newcastle Police Station	BM	LETTER	Formal notice of work zone installation	NPS raised concerns on lack of solution for parking of Correctional Services vehicles. Requested Built facilitate talks with CoN. Built facilitated discussions with CoN on 20/02/2020 & long term solution was agreed.	Y
2002-CN008	20/02/2020	ALL	BM	EMAIL & LETTER	Construction progress update including completion of Stage 1 asbestos removal, commencement of structural demolition, installation of work zone & pedestrian crossing	Response from Newcastle Grammar School thanking Built for notification and advised they will communicate the information to their parent body.	Y
2003-CN009	2/03/2020	HNE	BM/OR	MEETING	Meeting arranged with HNE & NSW Public Works representatives to discuss heritage wall retention works and other construction activities potentially affecting HNE James Fletcher Hospital	HNE Engineer Jason Thomas was the only attendee. Discussed all works and items. Built issued meeting minutes & retention design to HNE on 04/03/2020 for review and comment Deadline for HNE response is 27/03/2020. Response received from HNE on 27/03/2020 with no objections.	Y
2004-CN009	3/04/2020	ALL	BM	EMAIL / LETTER	Extended Construction Hours: Notice issued to all surrounding residents, businesses, and organisations advising of the introduction of the Environmental Planning and Assessment (COVID-19 Development - Construction Working Days) Order 2020. The notice advised that Built intended to enact this Order at Nihon University until further advice/notice received from the NSW Dept. Planning, Industry and Environment	Community complaints received from Residents on Church Street. These are referenced below. 2004-CC007 2004-CC008 2004-CC009 2004-CC010 2004-CC012 In response to the community concerns, Built issued additional Community Notice (2004-CN010).	Y

2004-CN010	6/04/2020	ALL	BM	EMAIL / LETTER	Community Response to Extended Construction Hours: Notice issued to surrounding residents, businesses, and organisations advising that in response to community responses received related to 2004-CN009, Built will be extending working hours on Saturday's only in the short term and that any changes will be communicated in advance.	Additional responses were received, however, all were still in relation to extended working hours. Built has continued to implement the revised extended working hours on Saturday's and COVID-19 prevention measures onsite in accordance with Government advice.	Y
2004-CN011	22/04/2020	ALL	BM	EMAIL / LETTER	Construction Progress Update 02: - Noted establishment of Church Street Hoarding. - Advised of structural demolition progress - Advised of commencing piling / retention works in SW corner of the site on 27/04/2020. - Advised of piling method (CFA) to minimise noise and vibration. - Advised of planned Water Main Upgrade works commencing in late May 2020.	NIL	Y
2005-CN012	15/05/2020	HNE	BM	EMAIL	Notice to HNE James Fletcher Hospital regarding commencement of Temporary Ground Anchor Works to new retaining wall as discussed onsite with HNE, dwp, and Built in March 2020 (REF 2003-CN009) and per the design approved by NSW Public Works (reference email received from N. Halpin on 26/03/2020)	HNE response on 18/05/2020 ensuring HNE Engineering is aware of what is occurring on their property. Built (BM) contacted HNE for phone discussion to clarify and followed up with email on 18/05/2020. No outstanding issues.	Y
2006-CN013	4/06/2020	HWC	BM	MEETING	Pre-Commencement Meeting held onsite at Nihon University with Hunter Water, dwp Australia, Metiri Consultants, Built, and Murphy Plumbing to discuss the upcoming watermain upgrade works.	Hunter Water & Metiri Consultants advised of pre-commencement documentation to be submitted prior to commencing works. All actions closed and approval received.	Y
2006-CN014	5/06/2020	NPS	BM	MEETING/EMAIL	Site Meeting held with Newcastle Police Station to advise of and discuss upcoming road / lane closures on Church Street during Hunter Water works and erection of Tower Crane. Post-meeting, Built submitted the TMPs to NPS for information and comment if required.	No additional feedback / comments received. No further action.	Y
2006-CN015	5/06/2020	ALL	BM	EMAIL	Additional Community Notice issued to residents and businesses advising of Hunter Water Upgrade & Crane Erection works commencing.	Received one query from a resident requesting additional information. Received query from HNE James Fletcher Hospital clarifying if their driveway access would be affected. Built issued a Staging Plan and additional information on the works. No further comments received. No further action.	Y
2006-CN016	24/06/2020	HNE	BM	MEETING	Site Meeting and inspection held with Hunter New England Health, dwp Australia, Built, and Murphy Plumbing to discuss upcoming Sewer Main Upgrade requiring access to HNE property.	HNE granted access permission and requested additional notice prior to commencing works.	Y

Community Liaison Register

Built.

Project: Nihon University

Queries Register

Last Updated: 26/06/20

REF ID	DATE / TIME RECEIVED	RECEIVED FROM	DESCRIPTION	DATE / TIME RESPONDED	RESPONSE BY	DESCRIPTION	CLOSED (Y / N)
2002-CQ001	4/02/2020	Newcastle Police Station	Request for sound baffling installed to L1, 2, 3 Balcony Windows due to meeting held on 03/02/2020	4/02/2020	BM	Confimed that BUILT can organise an inspection by Acoustic Consultant and provide an appropriate solution. Acoustic solution provided by Consultant is to install acoustic door seals.	Y
2002-CQ002	19/02/2020	Newcastle Police Station	Request for Built to facilitate talks with City of Newcastle regarding long term solution for Correctional Services vehicle parking	19/02/2020	BM	Built has scheduled onsite meeting with Newcastle Police Station & City of Newcastle for 20/02/2020 to discuss solutions. City of Newcastle agreed to provide permanent parking on Watt Street for required vehicles.	Y
2003-CQ003	03/03/2020 1:04pm	Andrew Russell	Email received from Andrew Russell. Spoke with Built Foreman onsite regarding blanked out pedestrian crossing and concerns around pedestrian safety due to lack of signage & physical barriers warning common users that the crossing is no longer in place. Forwarded email sent to City of Newcastle expressing same concerns plus stating that Built had traffic control personnel onsite directing pedestrians which was good to see. Advised Council that additional signage should be implemented	04/03/2020 10:35am	BM	Response email sent acknowledging concerns and advising that Built is working with Council to ensure signage is installed ASAP. City of Newcastle responded on 09/03/20 with additional requirements originally not requested during consultation. All actions closed out.	Y
2003-CQ004	26/03/2020 5:19pm	Jack Strachan	Email sent to Structural Engineer responsible for completing Pre-Construction Dilapidation Report on the property requesting that vibration causing activities be noted for Post-Construction Dilapidation Inspection.	27/03/2020	BM	Noted by Built & Engineer. No further correspondence received.	Y
2004-CQ005	01/04/2020 12:21pm	John Pasterfield	Email sent to Nihon community liaison address advising of vibration felt within their residence caused by a loaded vehicle entering site	02/04/2020 2:06pm	BM	Response email sent noting concerns and advising of Built monitoring activities to maintain compliance and minimise disruptions. Advised the resident to contact if there are any further concerns or structural changes noted. No further response received.	Y
2004-CQ006	01/04/2020 12:47pm	Keran Davis	Email sent to Nihon community liaison address advising that vibrations were felt at various times throughout the day.	02/04/2020 2:08pm	BM	Response email sent noting concerns and advising of Built monitoring activities to maintain compliance and minimise disruptions. Advised the resident to contact if there are any further concerns or structural changes noted. No further response received.	Y

2005-CQ008	18/05/2020	Newcastle Grammar School	Phone call to Built & follow up email notifying Built that construction vehicles (trucks) were standing in the school drop off/pick-up zone. Noted this was prior to school zone hours and requested an alert to be raised with Built & Subcontractors to ensure no issues moving forward.	19/05/2020 9:24am	OR	Built immediately instructed Subcontractors on 18/05/2020 not to use this zone at any time. Follow up email sent to NGS advising them of action taken and acknowledging concerns. NGS had no further issues.	Y

Appendix C – Internal Audit Records

RAPT CONSULTING

Built

Vibration Monitoring, 9 Church Street Newcastle NSW - June 2020

Relationships Attention Professional Trust

1. Introduction 3
1.1 Limitations 6
2. Vibration Guidelines 7
2.1 Human Exposure 7
2.2 Building Damage 7
3. Measurement Methodology 9
3.1 Measured Vibration Levels 11
4. Conclusion 12
5. Calibration Certificates 13

1. Introduction

Background

RAPT Consulting has been engaged to undertake vibration monitoring for Built as part of their project at Nihon University. Based on the information provided it is understood there is a requirement for noise and vibration monitoring to be undertaken during construction works of the Nihon University project located at 9 Church Street Newcastle. The site and surrounding area is provided in Figure 1.



Figure 1 Site and Surrounding Area

Site activities at the time of the monitoring included the installation of temporary ground anchors to the new CFA pile shoring wall in the South-West corner of the site. Minor earthworks / surface preparation was also undertaken to enable the ground anchors to progress. Site activities are provided in figures 2 and 3.



Figure 2 Site Operations



Figure 3 Site Operations

The purpose of the vibration monitoring was to ascertain compliance with adopted vibration goals and to assist in managing vibration where vibration activities are taking place.

1.1 Limitations

The purpose of this report is to provide an independent vibration compliance assessment for the works currently taking place at 9 Church Street Newcastle.

It is not the intention of the assessment to cover every element of the ambient vibration environment, but rather to conduct the assessment with consideration to the prescribed work scope.

The findings of the vibration assessment represent the findings apparent at the date and time of the assessment undertaken. It is the nature of environmental assessments that all variations in environmental conditions cannot be assessed and all uncertainty concerning the conditions of the ambient environment cannot be eliminated. Professional judgement must be exercised in the investigation and interpretation of observations.

In conducting this assessment and preparing the report, current guidelines for vibration were referred to. This work has been conducted in good faith with RAPT Consulting's understanding of the client's brief and the generally accepted consulting practice.

No other warranty, expressed or implied, is made as to the information and professional advice included in this report. It is not intended for other parties or other uses.

2. Vibration Guidelines

2.1 Human Exposure

Vibration goals were sourced from the DECCW's Assessing Vibration: a technical guideline, which is based on guidelines contained in British Standard (BS) 6472–1992, Evaluation of human exposure to vibration in buildings (1–80 Hz).

Intermittent vibration is assessed using the vibration dose value (VDV), fully described in BS 6472 – 1992. Acceptable values of vibration dose are presented in Table 1.

Location	Daytime [1]		Nighttime [1]	
	Preferred value	Maximum value	Preferred value	Maximum value
Critical areas [2]	0.10	0.20	0.10	0.20
Residences	0.20	0.40	0.13	0.26
Offices, schools, educational institutions and places of worship	0.40	0.80	0.40	0.80
Workshops	0.80	1.60	0.80	1.60

Table 1 Acceptable Vibration Dose Values for Intermittent Vibration ($m/s^{1.75}$)

1 Daytime is 7:00 to 22:00 and nighttime is 22:00 to 7:00; and

2 Examples include hospital operating theatres and precision laboratories where sensitive operations are occurring. These criteria are only indicative, and there may be need to assess intermittent values against the continuous or impulsive criteria for critical areas.

2.2 Building Damage

Currently, there is no Australian Standard that sets the criteria for the assessment of building damage caused by vibration. Guidance of limiting vibration values is attained from reference to the following International Standards and Guidelines:

- British Standard BS7385.2 - 1993 *Evaluation and Measurement for Vibration in Buildings*, Part 2 - Guide to damage levels from ground borne vibration; and
- German Standard DIN 4150-3: 1999-02 Structural Vibration – Part 3: *Effects of vibration on structures*.

The German Standard Where heritage structures may be impacted, DIN 4150-3 specifies a method of measuring and evaluating the effects of vibration on structures and these vibration criteria will be applied. The criteria applicable to heritage buildings are identified in table 5-7. Based on DIN 4150-3, a measured value exceeding those listed in Table 5-7 will not necessarily lead to damage if it is significantly exceeded, however, further investigations may be necessary, and monitoring implemented during the project.

DIN 4150-3: 1999-02 is utilised in this case in the assessment of potential building damage resulting from ground borne vibration produced by the proposed activity.

The recommended Peak Particle Velocity (PPV) guidelines for the possibility of vibration induced building damage are derived from the minimum vibration levels above which any damage has previously been encountered and are presented in Table 2.

Table 2 Guideline values for vibration velocity to be used when evaluating the effects of short-term vibration on structures

Type of Structure	Peak Component Particle Velocity, mm/s			
	Vibration at the foundation at a frequency of			Vibration of horizontal plane of highest floor at all frequencies
	1 Hz to 10 Hz	10 Hz to 50 Hz	50 Hz to 100 Hz*	
Buildings used for commercial purposes, industrial buildings, and buildings of similar design	20	20-40	40-50	40
Dwellings and buildings of similar design and/or occupancy	5	5-15	15-20	15
Structures that, because of their sensitivity to vibration, do not correspond to those listed in lines 1 and 2 of table 5-7 and are of great intrinsic value (e.g. buildings that are under a preservation order)	3	3 to 8	8 to 10	8

**At Frequencies above 100Hz, the values given in this column may be used as minimum values*

3. Measurement Methodology

The assessment was conducted from 22 May to 28 May 2020 on the concrete ground adjacent to the James Fletcher Hospital facing north towards the demolition works at 9 Church Street, Newcastle.

Measurements were conducted using Profound Vibra ground vibration monitors (Serial Number VIB01724 at James Fletcher Hospital. The geophone was coupled securely to the ground for the experiment.

The instrument was set up to gather PPV levels at 1-second intervals in all three directions.

The setup is shown in Figure 4 and 5 below.



Figure 4 Equipment Setup

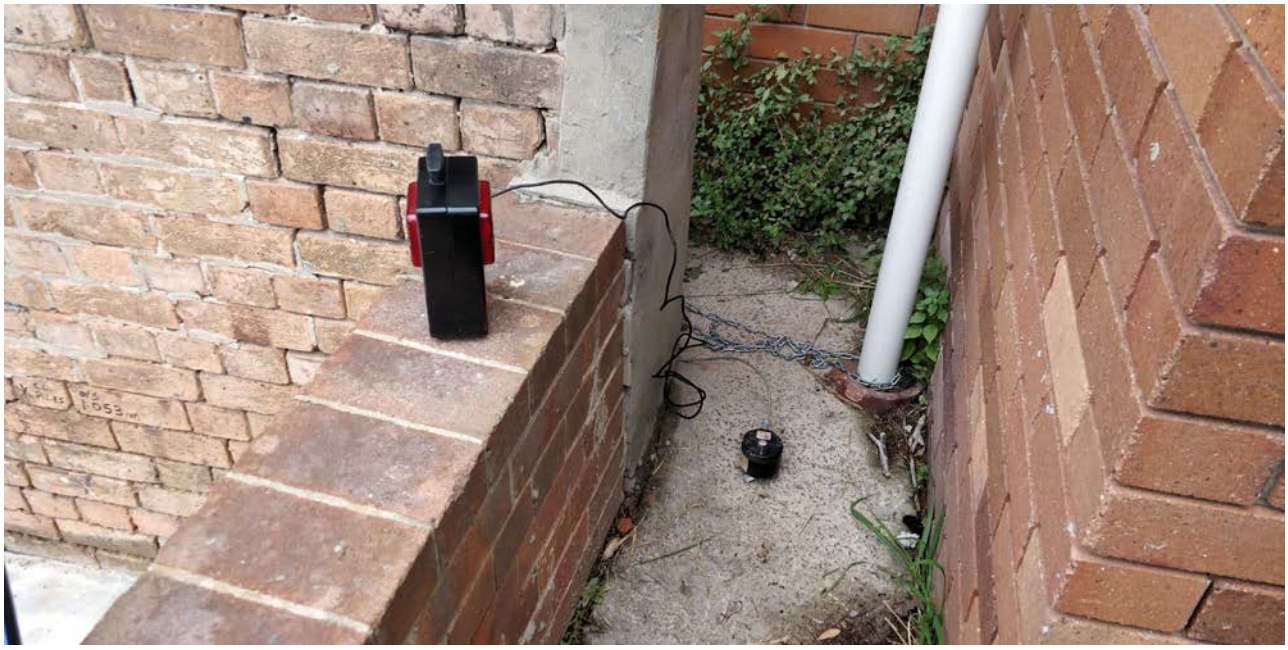


Figure 5 Equipment Setup

3.1 Measured Vibration Levels

The vibration monitor recorded the peak particle velocity (PPV) in each of the three orthogonal axes. To simplify the analysis the maximum component (i.e. the greatest magnitude PPV on any of the three axes) was calculated and is reported. This is considered to be representative of the maximum resultant PPV.

All measurements taken over the course of the monitoring period were safely within adopted guideline values. All but four measurements were below PPV of 1.0 mm/s.

Calculated vibration dose values over the course of the monitoring period were below 0.4 $m/s^{1.75}$ within acceptable vibration dose values for intermittent vibration for offices, schools, educational institutions and places of worship.

4. Conclusion

RAPT Consulting has undertaken vibration monitoring on behalf of Built as part of their project at Nihon University. The purpose of the monitoring was to ascertain if current construction operations at 9 Church Street Newcastle comply with current vibration guidelines and to manage vibration where vibration activities are taking place. While guidelines utilised in this assessment are met, further vibration monitoring further vibration monitoring is recommended particularly where anticipated vibration generating activities are planned to minimise the risk of vibration impacts.

Should you have any questions regarding this report please do not hesitate to contact Greg Collins on 0488512224 or greg@raptconsulting.com.au.

Thank you,



Greg Collins

Director – RAPT Consulting

5. Calibration Certificates

Acoustic Research Labs Pty Ltd
Unit 36/14 Loyalty Rd
North Rocks NSW AUSTRALIA 2151
Ph: +61 2 9484 0800 A.B.N. 65 160 399 119
www.acousticresearch.com.au

Vibration Meter

Calibration Certificate

Calibration Number C19603

Client Details Acoustic Research Labs Pty Ltd
Unit 36/14 Loyalty Road
North Rocks NSW 2151

Equipment Tested/ Model Number : Profound VIBRA
Instrument Serial Number : VIB01724
Geophone Serial Number : TDA00687

Atmospheric Conditions
Ambient Temperature : 24.7°C
Relative Humidity : 38.2%
Barometric Pressure : 99.8kPa

Calibration Technician : Lucky Jaiswal
Calibration Date : 4 October 2019
Secondary Check:
Report Issue Date :
Signed : Ken Williams

Test Procedure

Reference levels for the selected test frequencies were obtained using a Profound Vibra+ (S/N: VIBe0176) attached to a Shaker Table. The device under test was then attached to the IMV MS-VE-01N Shaker Table (S/N: 410168) and the readings taken directly from the internal display were recorded below. The deviation of these readings from the reference readings are listed along with these results.

Test Equipment Used

A RIGOL LXI DG1022 DG1ZA193704157 Arbitrary Function Generator (S/N -US36047448was used to generate the required electrical signals for each test with a means for varying the attenuation of these signals via the IMV MS-VE-01N Shaker Table (S/N: 410168) was provided by a JFW Industries dual rotary Model 50DR-001attenuator (S/N - 761637). A Lutron MHB-382SD (S/N – AG.88227) was used for measuring environmental conditions during device calibration.

Test Results

		X-Axis (Peak Velocity)		Y-Axis (Peak Velocity)		Z-Axis (Peak Velocity)	
Frequency	Reference (mm/s)	Result (mm/s)	Variance (mm/s)	Result (mm/s)	Variance (mm/s)	Result (mm/s)	Variance (mm/s)
5Hz	10.00	9.86	-0.14	10.12	+0.12	9.86	-0.14
10Hz	10.00	9.95	-0.05	10.03	+0.03	10.27	+0.27
20Hz	10.00	10.09	+0.09	9.77	-0.23	9.90	0.10
40Hz	10.00	10.02	+0.02	10.20	+0.20	10.22	+0.22

Monitoring

Details

Form id	128917
Created at	02/06/2020
Completed at	02/06/2020
Last modified	10/06/2020 11:24:33
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	Oakdale Group Pty Limited
Monitoring Activity	General Observation
Outline of activity being monitored	Capping Beam formwork
Documents referenced during monitoring *This could include; SWMS, Permit, Traffic Management Plans, Methodology documents, Engineering advice, SOP/JSA.* *Where possible provide the exact name and version number of the document.*	SWMS, Built HSE Plan
Summary of monitoring *Provide an outline of any positive observations or conversations, work practices being performed well, compliance with the documents reference or a brief outline.*	PPE Worn Materials stored appropriately & good housekeeping Identified star pickets without capping
Was work required to be stopped?	No

High Potential Hazard Reporting

High Potential ***Select from the drop down list those which apply. Use the Add button to add one line per issue***	**Trade/process** ***State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'***	**Comments** ***Describe the situation that is classified as High Potential***
Struck by Mobile Plant	Alorra Piling	Excavator working in close proximity to Oakdale workers

Built staff in attendance

Include the person who is logged in to the software in this section as well as the other attendees

Attendee name
Benjamin Moss
Patrick Jacobs

Others in attendance

Monitoring

This could include workers involved in the activity, the subcontractor supervisor or others

Subcontractor name	Persons name

Additional

Photos

Attachments

- *No file attachments*

Actions Summary

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment
34501	Dean	Bettin-ALORRAPILING	02/06/2020	10/06/2020	Exclusion zones to be established around plant and coordinated with workers nearby	Closed	
34503	Robbie	Clydesdale	02/06/2020	10/06/2020	Caps on all exposed Reo & star pickets	Closed	

Monitoring

Actions

ID: 34501 **Due date:** 2020-06-02 **Status:** Closed

Actionee: Dean Bettin-ALORRAPILING **Date closed:** 2020-06-10

Action description: Exclusion zones to be established around plant and coordinated with workers nearby



Attachments

- *No file attachments*

ID: 34503 **Due date:** 2020-06-02 **Status:** Closed

Actionee: Robbie Clydesdale **Date closed:** 2020-06-10

Action description: Caps on all exposed Reo & star pickets





Attachments

- *No file attachments*

Noise Level Spot Check Report **Date:** 04/06/20

Assessor Name and Position: Michael Louis/HSEC

People Present: Michael Louis

Equipment Used: QM 1598 **Calibration Date: 04/06/20**

Area/location of noise monitoring: Location 1 – 20 Church Street, Location 2 – 38 Church Street, Location 3 – Site boundary next to hospital



Sources of noise (including background noise):

Location 1 – excavator working on building C, trucks reversing into building C, passing cars trucks and busses, strong wind gusts.

Location 2 – machinery working on building A, Passing cars trucks and buses. Strong wind gusts.

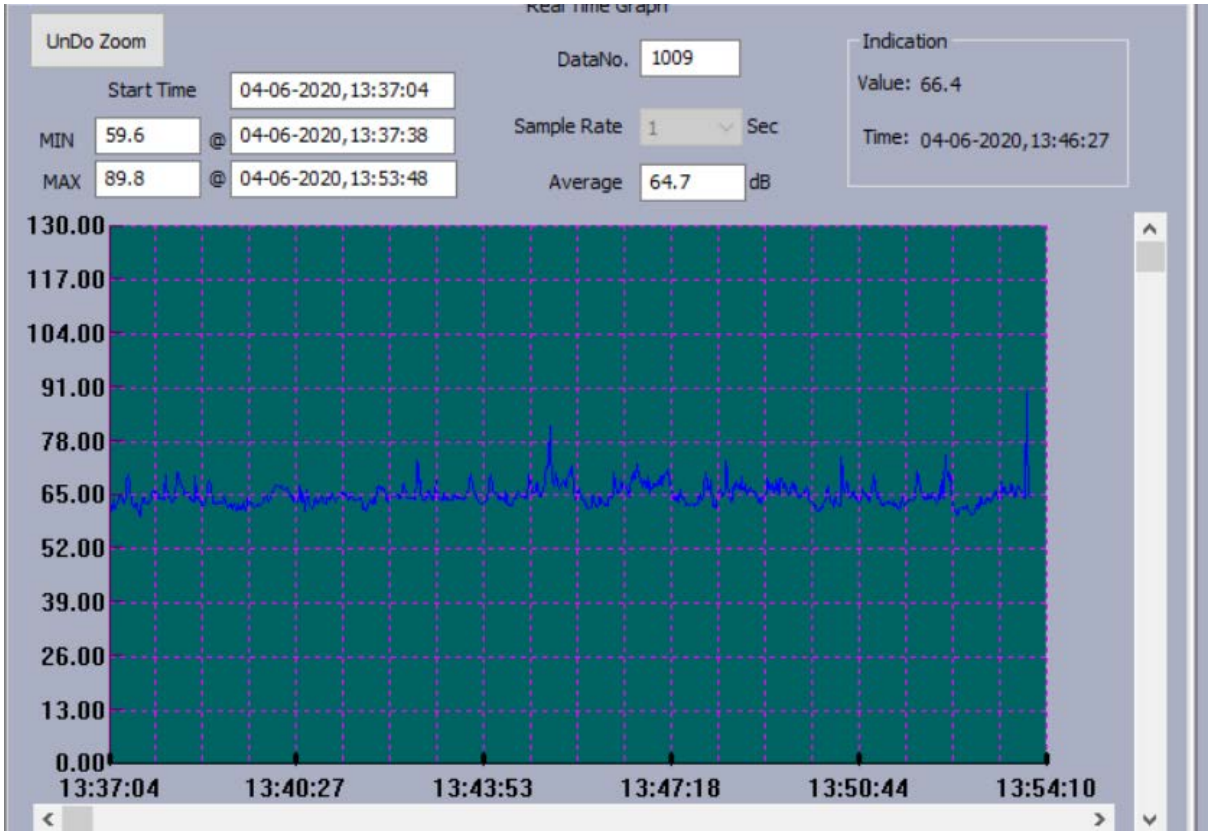
Location 3 – machinery working on building A. Strong wind gusts.

Sensitive Receivers (prior complaints and reports): 38 Church Street, 20 Church Street are sources of previous complaints.

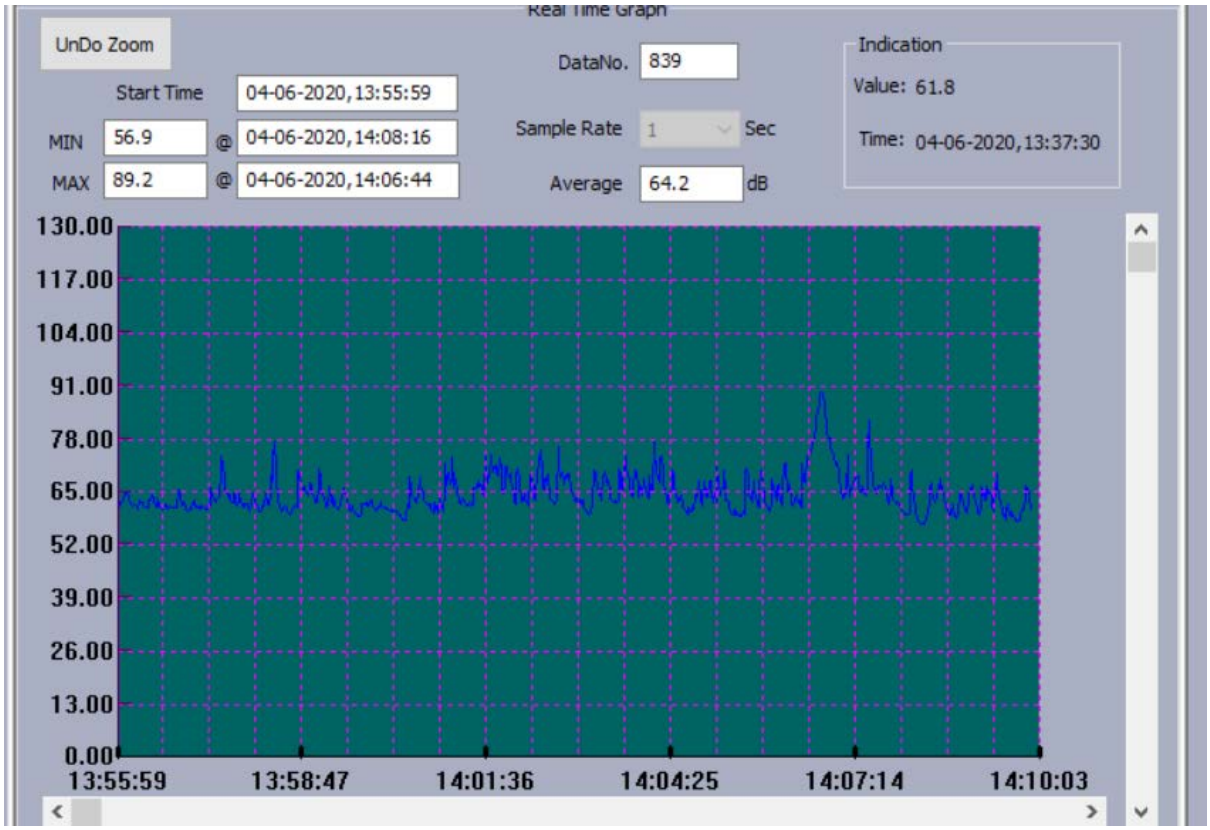
Is this monitoring being conducted as a result of a complaint? If yes, provide brief details: No

Results:

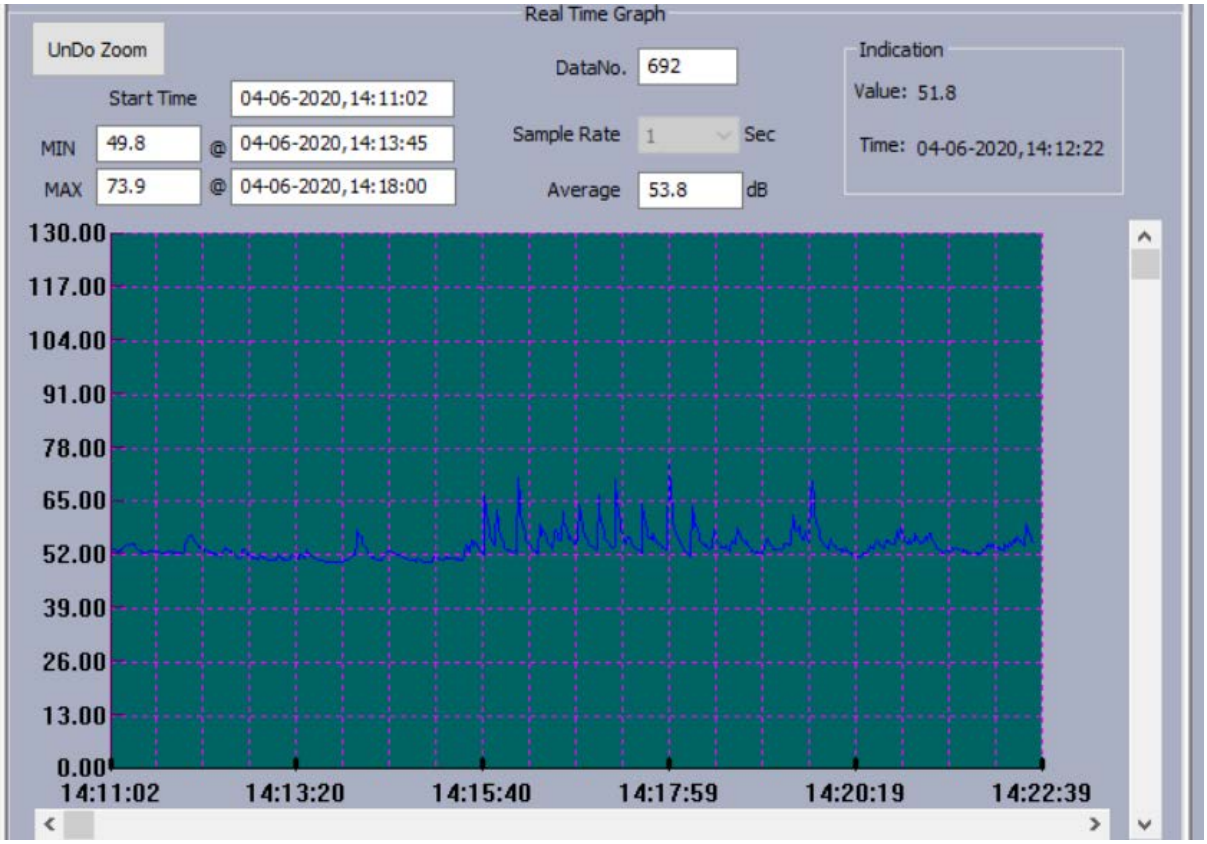
Location 1



Location 2



Location 3



Noise Assessment Report Summary:

Average readings are within required criteria limits for construction related noise.

(Attach Photos of Monitoring Locations)

Location 1



Location 2



Location 3



BASELINE CONSTRUCTION NOISE DATA & CRITERIA

Table 4 Attended noise monitoring summary

Location	Date	Start Time	Period[1]	L_{Aeq}	L_{A90} (RBL)	L_{Amax}	Comments
L1 Corner of Bolton & Church Streets	17/4/19	11:52	Day (7am – 6pm)	58	49	80	Urban hum (nearby fans, pumps, etc.) and distant traffic noise consistent. Car passbys frequent. Bird noise, aircraft noise, pedestrian noise and wind in trees occasionally.
	17/4/19	21:45	Evening (6pm – 10pm)	56	45	75	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic, car passbys and nearby hotel noise frequent. Resident noise, pedestrian noise and dog barking occasionally.
	17/4/19	22:15	Night (10pm – 7am)	55	45	71	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic and car passbys frequent. Pedestrian noise occasionally.

Table 5 Noise management levels for residential land use

Time of day	NML, $L_{Aeq\ 15min}$	Notes
Recommended Standard Hours: Monday to Friday 7:00am to 6:00pm Saturday 8:00am to 1:00pm No work on Sundays or public holidays	Noise affected: RBL + 10 dB(A)	May be some community reaction to noise. • Where the predicted or measured construction noise level exceeds the noise affected level, all feasible and reasonable work practices should be applied to meet the noise affected level. • All residents potentially impacted by the works should be informed of the nature of the works, the expected noise levels, and duration, and provided with site contact details.
	Highly noise affected: 75 dB(A)	May be a strong community reaction to noise. • Where construction noise is predicted or measured to be above this level, the relevant authority may require respite periods that restrict the hours that the very noisy activities can occur. • Respite activities would be determined considering times identified by the community when they are less sensitive to noise, and if the community is prepared to accept a longer period of construction to accommodate respite periods.
Outside recommended Standard Hours	Noise affected: RBL - 10 dB(A)	• A strong justification would typically be required for works outside the recommended standard hours. • The proponent should apply all feasible and reasonable work practices to meet the affected noise level. • Where all feasible and reasonable practices have been applied and noise is more than RBL - 10 dB(A) above the affected noise level, the proponent should negotiate with the affected community.

Table 12 Construction noise source power levels

Equipment	Quantity (worst case per 15-min period)	Sound power level per item, $L_{Aeq,\ 15\ minute}$ (dB)[1]
Demolition, earthworks & piling		
Piling rig	1	116
Excavator including rock-hammer	1	120
Excavator	2	105
Compactor	1	106
Dozer	1	108
Roller (up to 20T)	1	107
Truck & Dog	2	104
Structural works		
Concrete trucks	3	108
Concrete pump	1	110
Crane	1	99
Delivery truck	1	106
Power tools	4	105
Hand tools	Numerous	102
Internal fit-out and civil works		
Concrete trucks	3	108
Crane	1	99
Delivery truck	1	106
Hand tools	Numerous	102
Generator	1	99

Table 13 Construction noise predictions

Representative Receiver	Distance	Indicative predicted noise level $L_{Aeq,\ 15\ minute}$	Construction noise goal $L_{Aeq,\ 15\ minute}$
Nearest residences (to north)	20-105m	Demolition and earthworks 74-88 dB Structural works 66-81 dB Internal fit-out and civil works 66-80 dB	Noise affected: 59 dB (Recommended standard hours) Highly noise affected: 75 dB
Commercial / Offices	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	70 dB (when in use)
Hospitals	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	55 dB (when in use)

Site Inspection

Details

Form id	130430
Created at	09/06/2020
Completed at	09/06/2020
Last modified	26/06/2020 14:02:02
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	
Type of Site Inspection	Supervisor Inspection

Built Attendance

Include the person who is logged in as well.

Name
Benjamin Moss

Others in attendance

Subcontractor Name	Persons Name

Areas or Locations Inspected	Building A & C and Church Street

Identify the area/s reviewed during the inspection. The may include; whole of project, certain levels or certain locations.

Site Inspection

Summary of inspection

This may include; common checks, activities or items reviewed, good practices observed or general commentary of the inspection.
Note; all actions need to be registered in the "Actions" area at the bottom of this page.

Inspection of site areas after long-weekend and rain.
Building A:
- Access path from Building B delineated with flagging though presents trip hazard as you enter Building A area
- Mini-excavator located near a live edge
- Retaining wall exclusion zone fenced off
- Hoarding is in good condition and no damage
- Site clean and tidy

Building C:
- Access path from Building B is restrictive and is near a live edge. Fencing is in place.
- Housekeeping is an opportunity for improvement.
- Flagging is to be reinstated in multiple areas as posts have blown over.
- Site walk and toolbox with workers required due to excavations and recent rain.
- Reinforcement generally is covered, though some pile reinforcement requires caps and/or coverings
- Hoarding in good condition.
- Bubbler noted to be installed near the temporary switchboard.

Church Street:
- Hoarding/gantry is in good condition with no graffiti. Project signage in place and clean.
- Footpaths are clean and clear of debris and trip hazards.
- Work Zone is clean and clear.
- Existing utilities show no signs of damage.
- Sediment control to the existing drain is in place.

High Potential Hazard Reporting

High Potential Classification ***Select from the drop down list those which apply. Use the Add button to add one line per issue***	**Trade/Process** ***State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'***	**Comments** ***Describe the situation that is classified as High Potential***

Site Inspection

Additional

Photos



Building A Footpath & Gantry

Site Inspection



Site Signage

Site Inspection



Building C Footpath & Gantry

Site Inspection



Building B Footpath

Site Inspection



Sediment Control to Church Street Drain

Site Inspection



Building A - Clean site

Site Inspection



Exclusion Zones in place at rear of Building B preventing access to Building A

Site Inspection



Church Street Work Zone

Attachments

- *No file attachments*

Actions Summary

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment
34847	Benjamin	Bates	10/06/2020	12/06/2020	Ensure access path to Building A is clean and clear of trip/fall hazards	Closed	
34848	Mark	Waldron-DrumdergServicesUnitTrust	10/06/2020	26/06/2020	Remove mini-excavator from the live edge, construct ramping, or similar control measure. Please advise if skip bin is to be placed in front of live edge.	Closed	
34849	Robbie	Clydesdale	10/06/2020	16/06/2020	Widen access path and remove loose bricks/pavers that present falling objects hazard to workers below in the stormwater pit.	Closed	
34850	Robbie	Clydesdale	10/06/2020	16/06/2020	Reinstate flagging to all areas	Closed	
34851	Robbie	Clydesdale	10/06/2020	16/06/2020	Conduct site inspection and toolbox meeting with workers in Building C on general housekeeping and excavations based on recent rain prior to commencing works	Closed	

Site Inspection

34852	Robbie	Clydesdale	10/06/2020	16/06/2020	Exposed reinforcement to be marked and covered. Currently presents slips/trips/falls hazard and prone to damage.	Closed

Actions

ID: 34847 **Due date:** 2020-06-10 **Status:** Closed

Actionee: Benjamin Bates **Date closed:** 2020-06-12

Action description: Ensure access path to Building A is clean and clear of trip/fall hazards



Access path has eroded and presents trip hazard

Attachments

- *No file attachments*

Site Inspection

ID: 34848 **Due date:** 2020-06-10 **Status:** Closed

Actionee: Mark Waldron-DrumdergServicesUnitTrust **Date closed:** 2020-06-26

Action description: Remove mini-excavator from the live edge, construct ramping, or similar control measure. Please advise if skip bin is to be placed in front of live edge.



Excavator on live edge

Attachments

- *No file attachments*

ID: 34849 **Due date:** 2020-06-10 **Status:** Closed

Actionee: Robbie Clydesdale **Date closed:** 2020-06-16

Action description: Widen access path and remove loose bricks/pavers that present falling objects hazard to workers below in the stormwater pit.



Access & loose pavers near edge

Attachments

- *No file attachments*

ID: 34850 **Due date:** 2020-06-10 **Status:** Closed

Actionee: Robbie Clydesdale **Date closed:** 2020-06-16

Action description: Reinstate flagging to all areas



Loose flagging

Attachments

- *No file attachments*

Site Inspection

ID: 34851 **Due date:** 2020-06-10 **Status:** Closed

Actionee: Robbie Clydesdale **Date closed:** 2020-06-16

Action description: Conduct site inspection and toolbox meeting with workers in Building C on general housekeeping and excavations based on recent rain prior to commencing works



Deep excavation & waste

Attachments

- *No file attachments*

ID: 34852 **Due date:** 2020-06-10 **Status:** Closed

Actionee: Robbie Clydesdale **Date closed:** 2020-06-16

Action description: Exposed reinforcement to be marked and covered. Currently presents slips/trips/falls hazard and prone to damage.



Exposed reinforcement

Attachments

- *No file attachments*

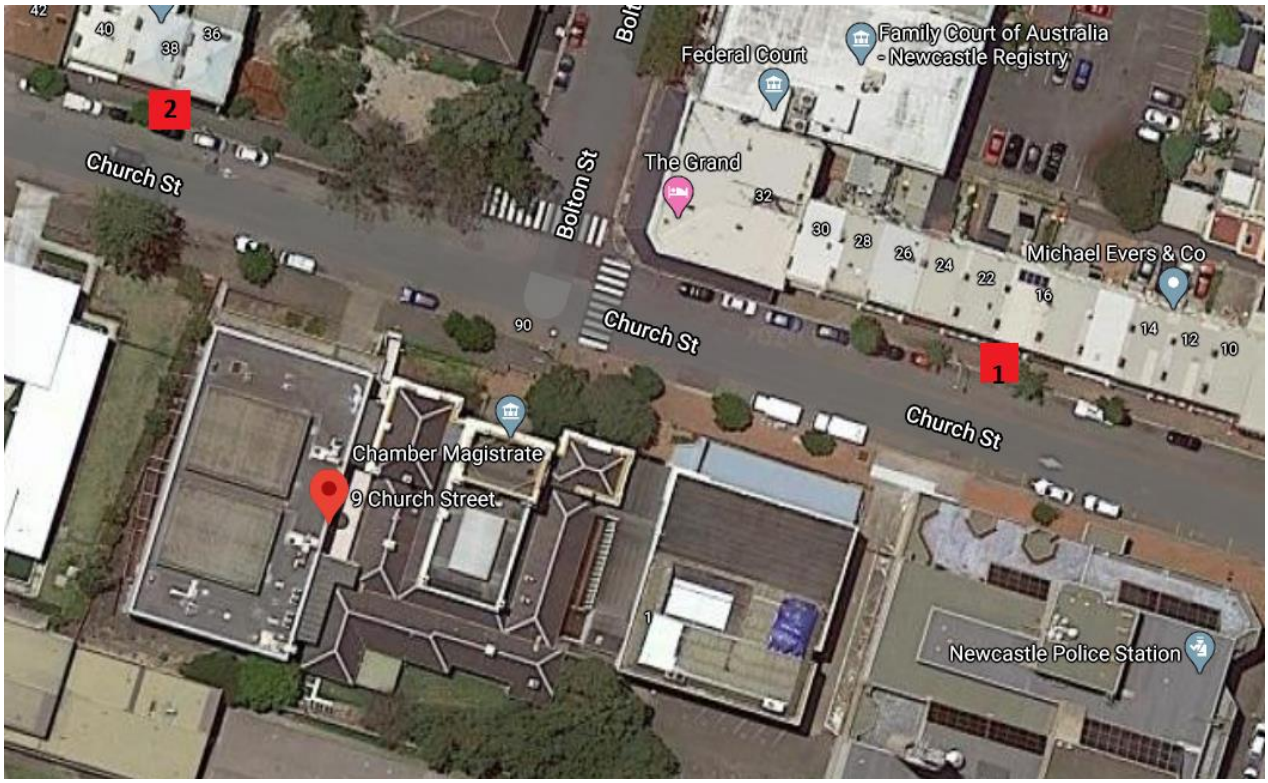
Noise Level Spot Check Report **Date:** 15/06/20

Assessor Name and Position: Michael Louis/HSEC

People Present: Michael Louis

Equipment Used: QM 1598 **Calibration Date: 04/06/20**

Area/location of noise monitoring: Location 1 – 20 Church Street, Location 2 – 38 Church Street



Sources of noise (including background noise):

Location 1 – Church Street road works, wacker packer and excavator working, concrete pour building C, reversing concrete trucks

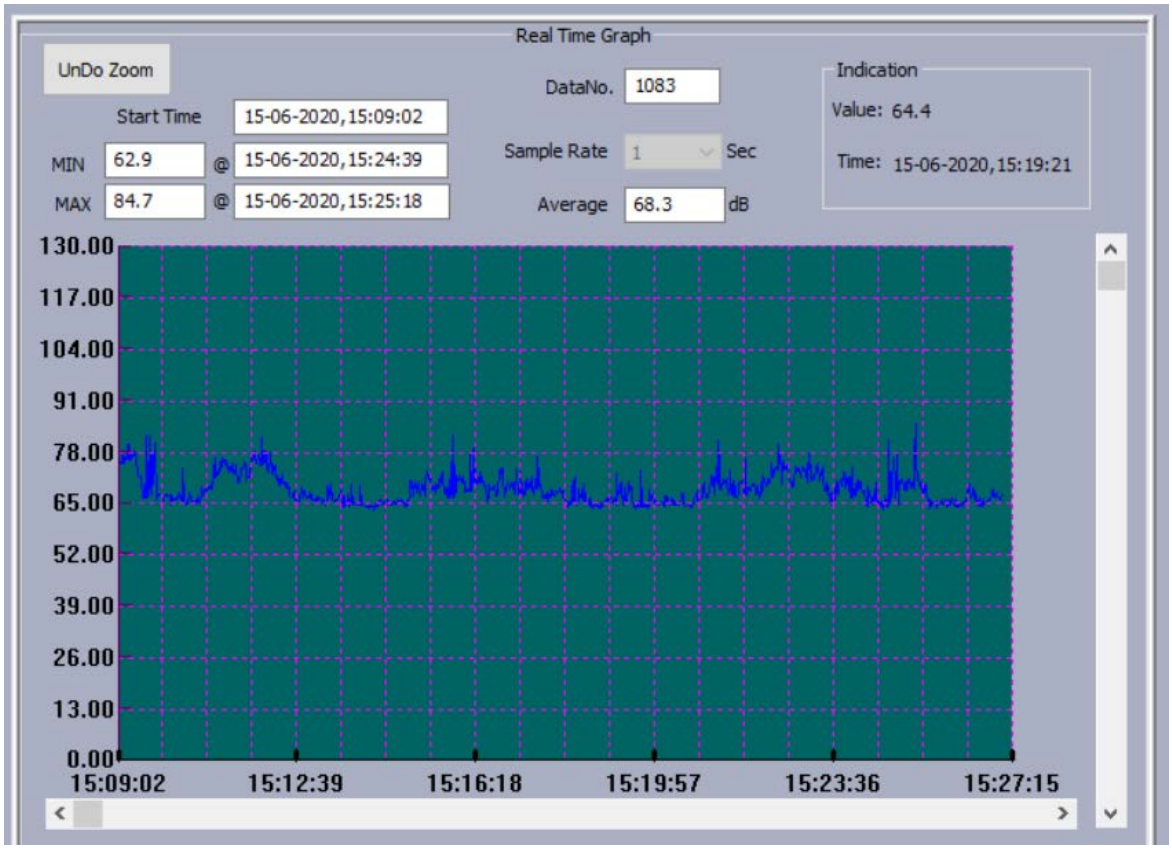
Location 2 – trucks loading out on building A, passing cars and trucks.

Sensitive Receivers (prior complaints and reports): 38 Church Street, 20 Church Street are sources of previous complaints.

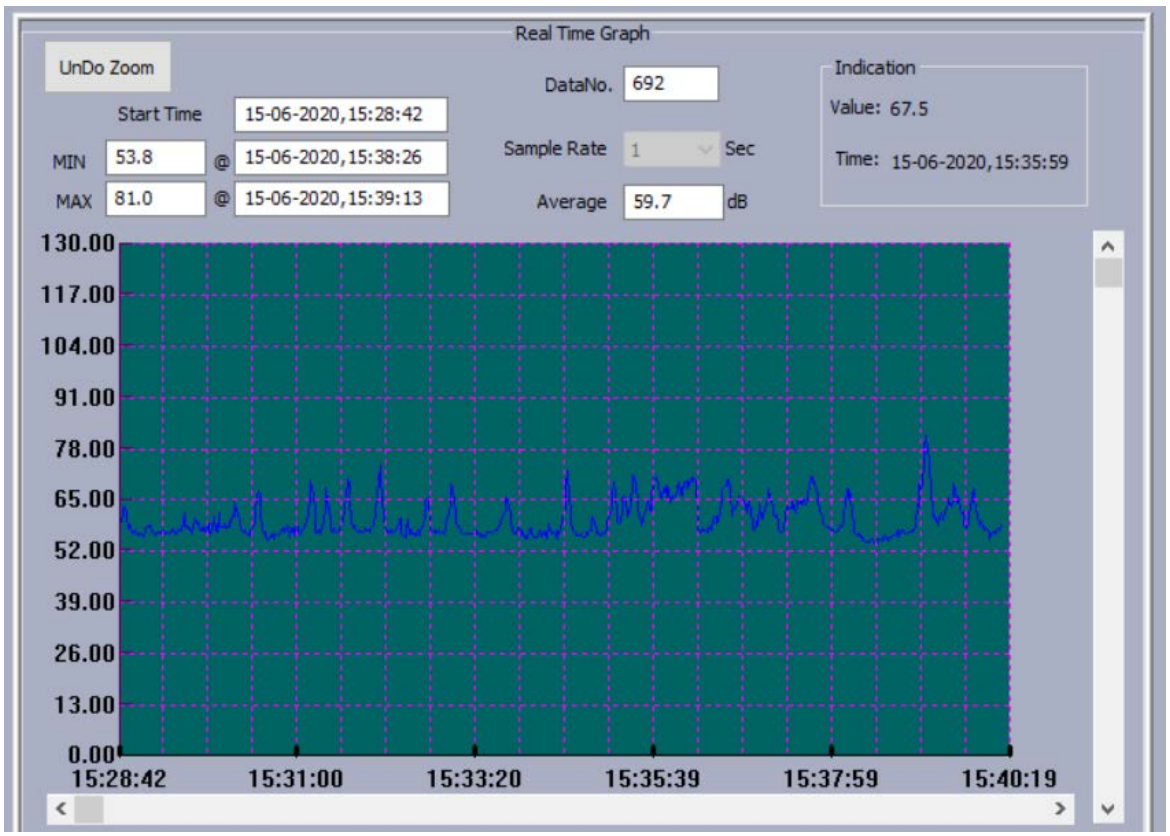
Is this monitoring being conducted as a result of a complaint? If yes, provide brief details: No

Results:

Location 1


Real Time Graph
UnDo Zoom
DataNo. 1083
Indication
Value: 64.4
Start Time 15-06-2020,15:09:02
MIN 62.9 @ 15-06-2020,15:24:39
MAX 84.7 @ 15-06-2020,15:25:18
Sample Rate 1 Sec
Time: 15-06-2020,15:19:21
Average 68.3 dB
130.00
117.00
104.00
91.00
78.00
65.00
52.00
39.00
26.00
13.00
0.00
15:09:02
15:12:39
15:16:18
15:19:57
15:23:36
15:27:15

Location 2


Real Time Graph
UnDo Zoom
DataNo. 692
Indication
Value: 67.5
Start Time 15-06-2020,15:28:42
MIN 53.8 @ 15-06-2020,15:38:26
MAX 81.0 @ 15-06-2020,15:39:13
Sample Rate 1 Sec
Time: 15-06-2020,15:35:59
Average 59.7 dB
130.00
117.00
104.00
91.00
78.00
65.00
52.00
39.00
26.00
13.00
0.00
15:28:42
15:31:00
15:33:20
15:35:39
15:37:59
15:40:19

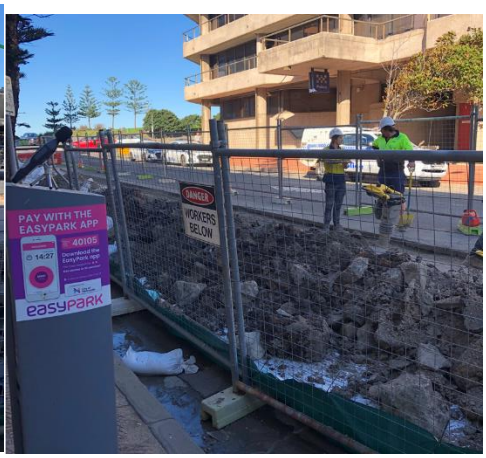
Noise Assessment Report Summary:

Average readings are within required criteria limits for construction related noise.

(Attach Photos of Monitoring Locations)

Location 1







Location 2



BASELINE CONSTRUCTION NOISE DATA & CRITERIA

Table 4 Attended noise monitoring summary

Location	Date	Start Time	Period[1]	L_{Aeq}	L_{A90} (RBL)	L_{Amax}	Comments
L1 Corner of Bolton & Church Streets	17/4/19	11:52	Day (7am – 6pm)	58	49	80	Urban hum (nearby fans, pumps, etc.) and distant traffic noise consistent. Car passbys frequent. Bird noise, aircraft noise, pedestrian noise and wind in trees occasionally.
	17/4/19	21:45	Evening (6pm – 10pm)	56	45	75	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic, car passbys and nearby hotel noise frequent. Resident noise, pedestrian noise and dog barking occasionally.
	17/4/19	22:15	Night (10pm – 7am)	55	45	71	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic and car passbys frequent. Pedestrian noise occasionally.

Table 5 Noise management levels for residential land use

Time of day	NML, $L_{Aeq\ 15min}$	Notes
Recommended Standard Hours: Monday to Friday 7:00am to 6:00pm Saturday 8:00am to 1:00pm No work on Sundays or public holidays	Noise affected: RBL + 10 dB(A)	May be some community reaction to noise. • Where the predicted or measured construction noise level exceeds the noise affected level, all feasible and reasonable work practices should be applied to meet the noise affected level. • All residents potentially impacted by the works should be informed of the nature of the works, the expected noise levels, and duration, and provided with site contact details.
	Highly noise affected: 75 dB(A)	May be a strong community reaction to noise. • Where construction noise is predicted or measured to be above this level, the relevant authority may require respite periods that restrict the hours that the very noisy activities can occur. • Respite activities would be determined considering times identified by the community when they are less sensitive to noise, and if the community is prepared to accept a longer period of construction to accommodate respite periods.
Outside recommended Standard Hours	Noise affected: RBL - 10 dB(A)	• A strong justification would typically be required for works outside the recommended standard hours. • The proponent should apply all feasible and reasonable work practices to meet the affected noise level. • Where all feasible and reasonable practices have been applied and noise is more than RBL - 10 dB(A) above the affected noise level, the proponent should negotiate with the affected community.

Table 12 Construction noise source power levels

Equipment	Quantity (worst case per 15-min period)	Sound power level per item, $L_{Aeq,\ 15\ minute}$ (dB)[1]
Demolition, earthworks & piling		
Piling rig	1	116
Excavator including rock-hammer	1	120
Excavator	2	105
Compactor	1	106
Dozer	1	108
Roller (up to 20T)	1	107
Truck & Dog	2	104
Structural works		
Concrete trucks	3	108
Concrete pump	1	110
Crane	1	99
Delivery truck	1	106
Power tools	4	105
Hand tools	Numerous	102
Internal fit-out and civil works		
Concrete trucks	3	108
Crane	1	99
Delivery truck	1	106
Hand tools	Numerous	102
Generator	1	99

Table 13 Construction noise predictions

Representative Receiver	Distance	Indicative predicted noise level $L_{Aeq,\ 15\ minute}$	Construction noise goal $L_{Aeq,\ 15\ minute}$
Nearest residences (to north)	20-105m	Demolition and earthworks 74-88 dB Structural works 66-81 dB Internal fit-out and civil works 66-80 dB	Noise affected: 59 dB (Recommended standard hours) Highly noise affected: 75 dB
Commercial / Offices	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	70 dB (when in use)
Hospitals	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	55 dB (when in use)

Site Inspection

Details

Form id	132700
Created at	18/06/2020
Completed at	18/06/2020
Last modified	18/06/2020 12:09:30
Status	Complete
Respondent	Michael Louis
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	BUILT PTY LIMITED
Type of Site Inspection	Consultative Process Inspection

Built Attendance

Include the person who is logged in as well.

Name
Leif Aleksic
Michael Louis
Benjamin Bates

Others in attendance

Subcontractor Name	Persons Name
GERRARD MURPHY (DRAINAGE) PTY LTD	Jay, troy, Drew, warrick
PINNACLE BRICKLAYING PTY LTD	Mark, Ben
WOODBURY CIVIL PTY LIMITED	Jamie
BUILT PTY LIMITED	Mathew Mitchell
WOODBURY CIVIL PTY LIMITED	Joe, will, Jake

Areas or Locations Inspected

Identify the area/s reviewed during the inspection. The may include; whole of project, certain levels or certain locations.

Buildings A, B, C

Summary of inspection

This may include; common checks, activities or items reviewed, good practices observed or general commentary of the inspection.
Note; all actions need to be registered in the "Actions" area at the bottom of this page.

Inspected civil works on building A, soft strip building B, in ground works Building C, amenities. Access-ways clear, good general use of PPE, power boards checked. Reminder for workers that evac/muster point has changed.

- Hazard hunt board to be updated by Built supervisors.
- holes in accessways to be filled

Printed names for hard hats for workers

Site Inspection

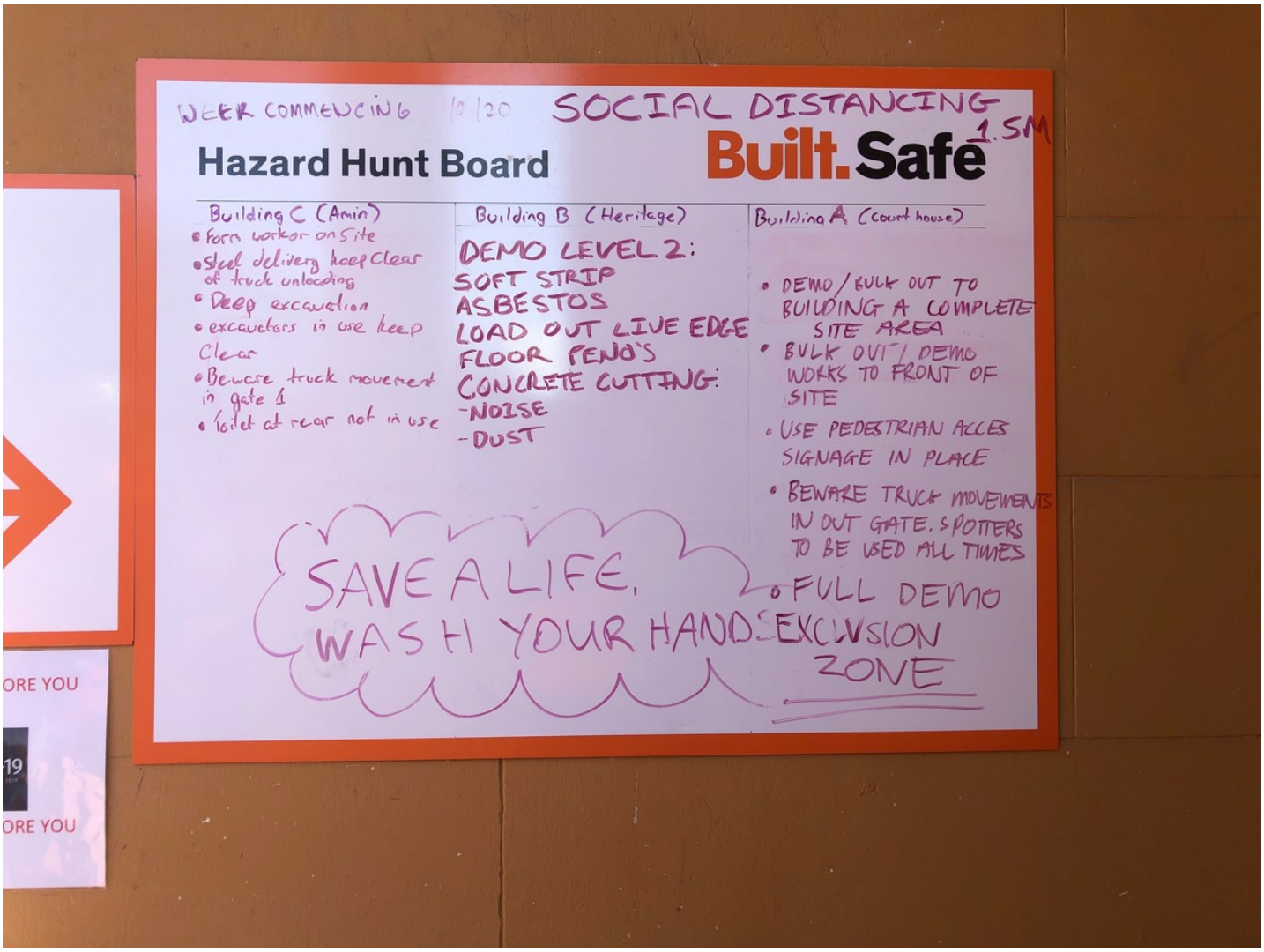
High Potential Hazard Reporting

High Potential Classification ***Select from the drop down list those which apply. Use the Add button to add one line per issue***	**Trade/Process** ***State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'***	**Comments** ***Describe the situation that is classified as High Potential***
Contact with Live Electrical	Mailec	Power boards must have all areas beneath sealed

Site Inspection

Additional

Photos



Site Inspection



Site Inspection



Site Inspection



Site Inspection



Site Inspection



Attachments

- *No file attachments*

Actions Summary

Site Inspection

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment
35265	Liam	Tamsett	18/06/2020	22/06/2020	Areas around power boards need to be kept clear	Closed	

Actions

ID: 35265 **Due date:** 2020-06-18 **Status:** Closed

Actionee: Liam Tamsett **Date closed:** 2020-06-22

Action description: Areas around power boards need to be kept clear



Attachments

- *No file attachments*

Site Inspection

Details

Form id	133972
Created at	23/06/2020
Completed at	23/06/2020
Last modified	23/06/2020 14:45:52
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Fitout
Department	
Project	Nihon University Newcastle Campus
Subcontractor	
Type of Site Inspection	Environmental Inspection

Built Attendance

Include the person who is logged in as well.

Name
Benjamin Moss

Others in attendance

Subcontractor Name	Persons Name

Areas or Locations Inspected *Identify the area/s reviewed during the inspection. The may include; whole of project, certain levels or certain locations.*	Whole Site
Summary of inspection *This may include; common checks, activities or items reviewed, good practices observed or general commentary of the inspection.* *Note; all actions need to be registered in the "Actions" area at the bottom of this page.*	Traffic Management in place in accordance with approved TMPs & Permits Footpaths, driveways, and gutters clean & clear Truck Logs checked and completed Sediment Control in place on Church Street Internal vehicle paths delineated and exclusion zones marked Hoardings in good condition & signage in place Stockpiles watered Plant inducted & log book signed Spoil bins in place for drilling slurry

High Potential Hazard Reporting

High Potential Classification ***Select from the drop down list those which apply. Use the Add button to add one line per issue***	**Trade/Process** ***State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'***	**Comments** ***Describe the situation that is classified as High Potential***

Site Inspection

Additional

Photos

Site Inspection



Site Inspection



Site Inspection



Site Inspection



Site Inspection



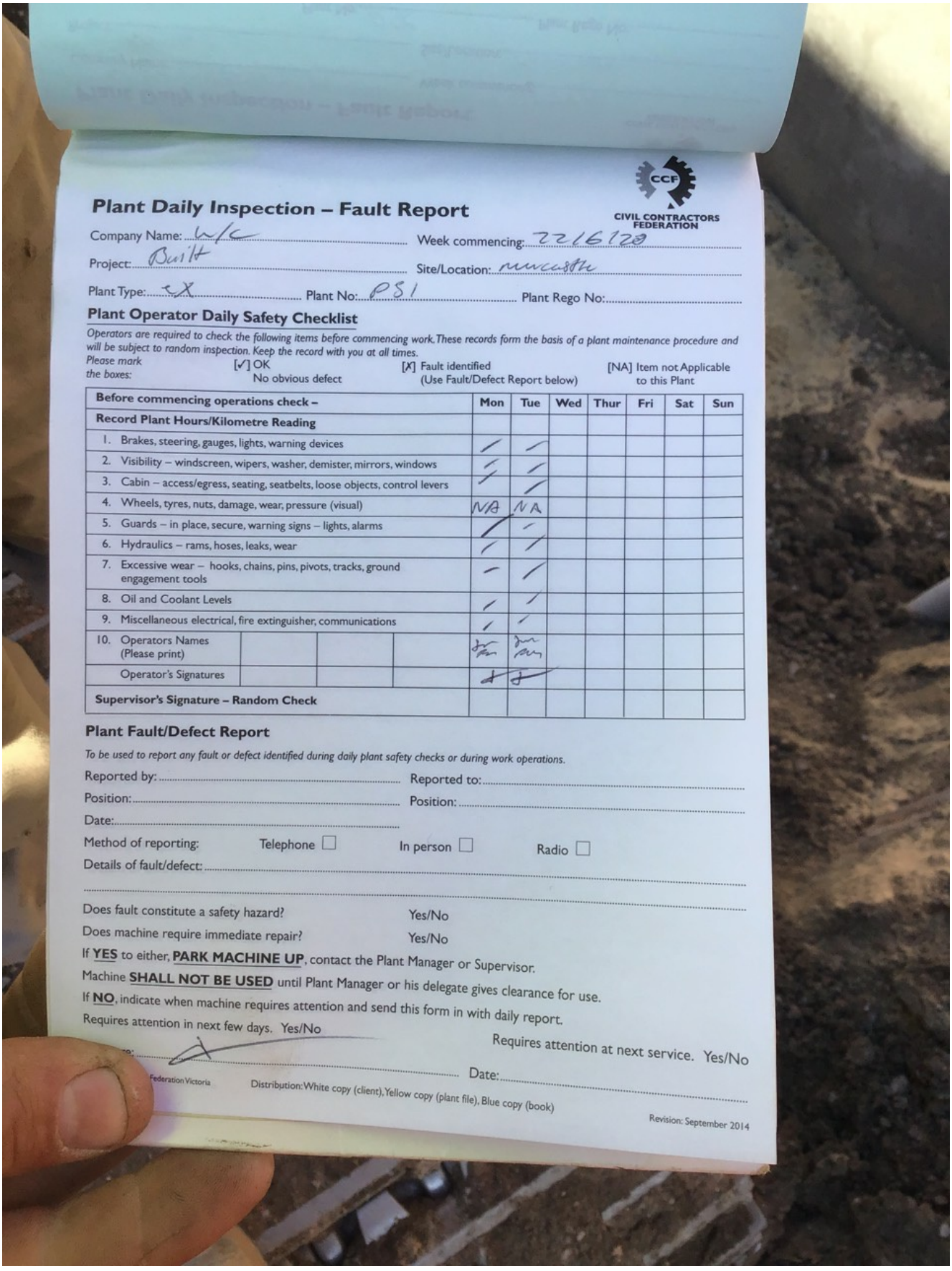
Site Inspection



Site Inspection



Site Inspection



Plant Daily Inspection – Fault Report

CIVIL CONTRACTORS FEDERATION

Company Name: W/C Week commencing: 7/2/20

Project: Built Site/Location: Newcastle

Plant Type: EX Plant No: PS1 Plant Rego No:

Plant Operator Daily Safety Checklist

Operators are required to check the following items before commencing work. These records form the basis of a plant maintenance procedure and will be subject to random inspection. Keep the record with you at all times.

Please mark the boxes: [✓] OK No obvious defect [X] Fault identified (Use Fault/Defect Report below) [NA] Item not Applicable to this Plant

Before commencing operations check –	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Record Plant Hours/Kilometre Reading							
1. Brakes, steering, gauges, lights, warning devices	✓	✓					
2. Visibility – windscreen, wipers, washer, demister, mirrors, windows	✓	✓					
3. Cabin – access/egress, seating, seatbelts, loose objects, control levers	✓	✓					
4. Wheels, tyres, nuts, damage, wear, pressure (visual)	NA	NA					
5. Guards – in place, secure, warning signs – lights, alarms	✓	✓					
6. Hydraulics – rams, hoses, leaks, wear	✓	✓					
7. Excessive wear – hooks, chains, pins, pivots, tracks, ground engagement tools	✓	✓					
8. Oil and Coolant Levels	✓	✓					
9. Miscellaneous electrical, fire extinguisher, communications	✓	✓					
10. Operators Names (Please print)	[illegible]	[illegible]					
Operator's Signatures	[signature]	[signature]					
Supervisor's Signature – Random Check							

Plant Fault/Defect Report

To be used to report any fault or defect identified during daily plant safety checks or during work operations.

Reported by: Reported to:

Position: Position:

Date:

Method of reporting: Telephone ☐ In person ☐ Radio ☐

Details of fault/defect:

Does fault constitute a safety hazard? Yes/No

Does machine require immediate repair? Yes/No

If **YES** to either, **PARK MACHINE UP**, contact the Plant Manager or Supervisor.

Machine **SHALL NOT BE USED** until Plant Manager or his delegate gives clearance for use.

If **NO**, indicate when machine requires attention and send this form in with daily report.

Requires attention in next few days. Yes/No Requires attention at next service. Yes/No

To: Date:

Federation Victoria Distribution: White copy (client), Yellow copy (plant file), Blue copy (book) Revision: September 2014

Site Inspection



Site Inspection



Site Inspection



Attachments

- *No file attachments*

Actions Summary

Site Inspection

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment

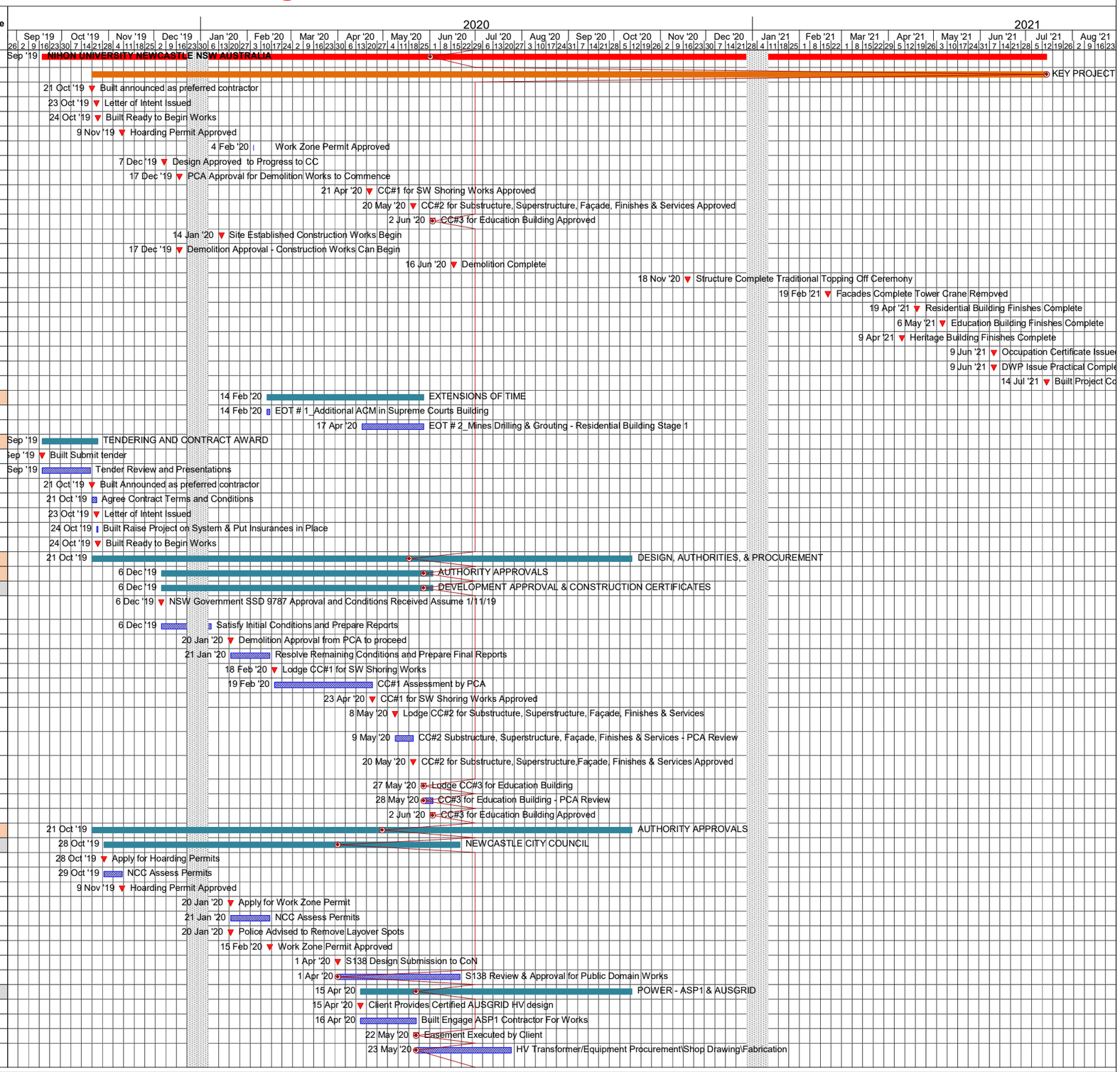
Actions

Appendix D – Statused Contract Programme

Prepared By: RMc
Checked:
Revision : Rev 6 Contract

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

ID	Task Name	Dur	Start	Finish	% Complete
0	**NIHON UNIVERSITY NEWCASTLE NSW AUSTRALIA**	**502 d**	**Wed 18/09/19**	**Wed 14/07/21**	**37%**
1	**KEY PROJECT MILESTONES**	**471 d**	**Mon 21/10/19**	**Wed 14/07/21**	**99%**
2	*Built announced as preferred contractor*	*0 d*	*Mon 21/10/19*	*Mon 21/10/19*	*100%*
3	*Letter of Intent Issued*	*0 d*	*Wed 23/10/19*	*Wed 23/10/19*	*100%*
4	*Built Ready to Begin Works*	*0 d*	*Thu 24/10/19*	*Thu 24/10/19*	*100%*
5	*Hoarding Permit Approved*	*0 d*	*Sat 9/11/19*	*Sat 9/11/19*	*100%*
6	*Work Zone Permit Approved*	*10 d*	*Tue 4/02/20*	*Sat 15/02/20*	*100%*
7	*Design Approved to Progress to CC*	*0 d*	*Sat 7/12/19*	*Sat 7/12/19*	*100%*
8	*PCA Approval for Demolition Works to Commence*	*0 d*	*Tue 17/12/19*	*Tue 17/12/19*	*100%*
9	*CC#1 for SW Shoring Works Approved*	*0 d*	*Tue 21/04/20*	*Tue 21/04/20*	*100%*
10	*CC#2 for Substructure, Superstructure, Façade, Finishes & Services App*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*100%*
11	*CC#3 for Education Building Approved*	*0 d*	*Tue 2/06/20*	*Tue 2/06/20*	*0%*
12	*Site Established Construction Works Begin*	*0 d*	*Tue 14/01/20*	*Tue 14/01/20*	*100%*
13	*Demolition Approval - Construction Works Can Begin*	*0 d*	*Tue 17/12/19*	*Tue 17/12/19*	*100%*
14	*Demolition Complete*	*0 d*	*Tue 16/06/20*	*Tue 16/06/20*	*100%*
15	*Structure Complete Traditional Topping Off Ceremony*	*0 d*	*Wed 18/11/20*	*Wed 18/11/20*	*0%*
16	*Facades Complete Tower Crane Removed*	*0 d*	*Fri 19/02/21*	*Fri 19/02/21*	*0%*
17	*Residential Building Finishes Complete*	*0 d*	*Mon 19/04/21*	*Mon 19/04/21*	*0%*
18	*Education Building Finishes Complete*	*0 d*	*Thu 6/05/21*	*Thu 6/05/21*	*0%*
19	*Heritage Building Finishes Complete*	*0 d*	*Fri 9/04/21*	*Fri 9/04/21*	*0%*
20	*Occupation Certificate Issued*	*0 d*	*Wed 9/06/21*	*Wed 9/06/21*	*0%*
21	*DWP Issue Practical Completion*	*0 d*	*Wed 9/06/21*	*Wed 9/06/21*	*0%*
22	*Built Project Complete*	*0 d*	*Wed 14/07/21*	*Wed 14/07/21*	*0%*
23	**EXTENSIONS OF TIME**	**83 d**	**Fri 14/02/20**	**Wed 27/05/20**	**100%**
24	EOT # 1_Additional ACM in Supreme Courts Building	2 d	Fri 14/02/20	Sat 15/02/20	100%
25	EOT # 2_Mines Drilling & Grouting - Residential Building Stage 1	33 d	Fri 17/04/20	Wed 27/05/20	100%
26	**TENDERING AND CONTRACT AWARD**	**29 d**	**Wed 18/09/19**	**Thu 24/10/19**	**100%**
27	Built Submit tender	0 d	Wed 18/09/19	Wed 18/09/19	*100%*
28	Tender Review and Presentations	25 d	Wed 18/09/19	Sat 19/10/19	100%
29	Built Announced as preferred contractor	0 d	Mon 21/10/19	Mon 21/10/19	*100%*
30	Agree Contract Terms and Conditions	3 d	Mon 21/10/19	Wed 23/10/19	100%
31	Letter of Intent Issued	0 d	Wed 23/10/19	Wed 23/10/19	*100%*
32	Built Raise Project on System & Put Insurances in Place	1 d	Thu 24/10/19	Thu 24/10/19	100%
33	Built Ready to Begin Works	0 d	Thu 24/10/19	Thu 24/10/19	*100%*
34	**DESIGN, AUTHORITIES, & PROCUREMENT**	**273 d**	**Mon 21/10/19**	**Mon 12/10/20**	**83%**
35	**AUTHORITY APPROVALS**	**131 d**	**Fri 6/12/19**	**Tue 2/06/20**	**95%**
36	**DEVELOPMENT APPROVAL & CONSTRUCTION CERTIF**	**131 d**	**Fri 6/12/19**	**Tue 2/06/20**	**95%**
37	*NSW Government SSD 9787 Approval and Conditions Received Assume 1/11/19*	*0 d*	*Fri 6/12/19*	*Fri 6/12/19*	*100%*
38	Satisfy Initial Conditions and Prepare Reports	14 d	Fri 6/12/19	Tue 7/01/20	100%
39	*Demolition Approval from PCA to proceed*	*0 d*	*Mon 20/01/20*	*Mon 20/01/20*	*100%*
40	Resolve Remaining Conditions and Prepare Final Reports	20 d	Tue 21/01/20	Sat 15/02/20	100%
41	Lodge CC#1 for SW Shoring Works	0 d	Tue 18/02/20	Tue 18/02/20	*100%*
42	CC#1 Assessment by PCA	52 d	Wed 19/02/20	Thu 23/04/20	100%
43	*CC#1 for SW Shoring Works Approved*	*0 d*	*Thu 23/04/20*	*Thu 23/04/20*	*100%*
44	Lodge CC#2 for Substructure, Superstructure, Façade, Finishes & Services	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
45	CC#2 Substructure, Superstructure, Façade, Finishes & Services - PCA Review	10 d	Sat 9/05/20	Wed 20/05/20	100%
46	*CC#2 for Substructure, Superstructure,Façade, Finishes & Services Approved*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*100%*
47	Lodge CC#3 for Education Building	0 d	Wed 27/05/20	Wed 27/05/20	*0%*
48	CC#3 for Education Building - PCA Review	5 d	Thu 28/05/20	Tue 2/06/20	0%
49	*CC#3 for Education Building Approved*	*0 d*	*Tue 2/06/20*	*Tue 2/06/20*	*0%*
50	**AUTHORITY APPROVALS**	**273 d**	**Mon 21/10/19**	**Mon 12/10/20**	**70%**
51	**NEWCASTLE CITY COUNCIL**	**172 d**	**Mon 28/10/19**	**Sat 20/06/20**	**33%**
52	*Apply for Hoarding Permits*	*0 d*	*Mon 28/10/19*	*Mon 28/10/19*	*100%*
53	NCC Assess Permits	10 d	Tue 29/10/19	Sat 9/11/19	100%
54	*Hoarding Permit Approved*	*0 d*	*Sat 9/11/19*	*Sat 9/11/19*	*100%*
55	*Apply for Work Zone Permit*	*0 d*	*Mon 20/01/20*	*Mon 20/01/20*	*100%*
56	NCC Assess Permits	20 d	Tue 21/01/20	Sat 15/02/20	100%
57	Police Advised to Remove Layover Spots	0 d	Mon 20/01/20	Mon 20/01/20	*100%*
58	*Work Zone Permit Approved*	*0 d*	*Sat 15/02/20*	*Sat 15/02/20*	*100%*
59	*S138 Design Submission to CoN*	*0 d*	*Wed 1/04/20*	*Wed 1/04/20*	*100%*
60	S138 Review & Approval for Public Domain Works	60 d	Wed 1/04/20	Sat 20/06/20	0%
61	**POWER - ASP1 & AUSGRID**	**145 d**	**Wed 15/04/20**	**Mon 12/10/20**	**29%**
62	Client Provides Certified AUSGRID HV design	0 d	Wed 15/04/20	Wed 15/04/20	*100%*
63	Built Engage ASP1 Contractor For Works	30 d	Thu 16/04/20	Fri 22/05/20	100%
64	*Easement Executed by Client*	*0 d*	*Fri 22/05/20*	*Fri 22/05/20*	*0%*
65	HV Transformer/Equipment Procurement\Shop Drawing\Fabrication	10 wks	Sat 23/05/20	Fri 24/07/20	0%

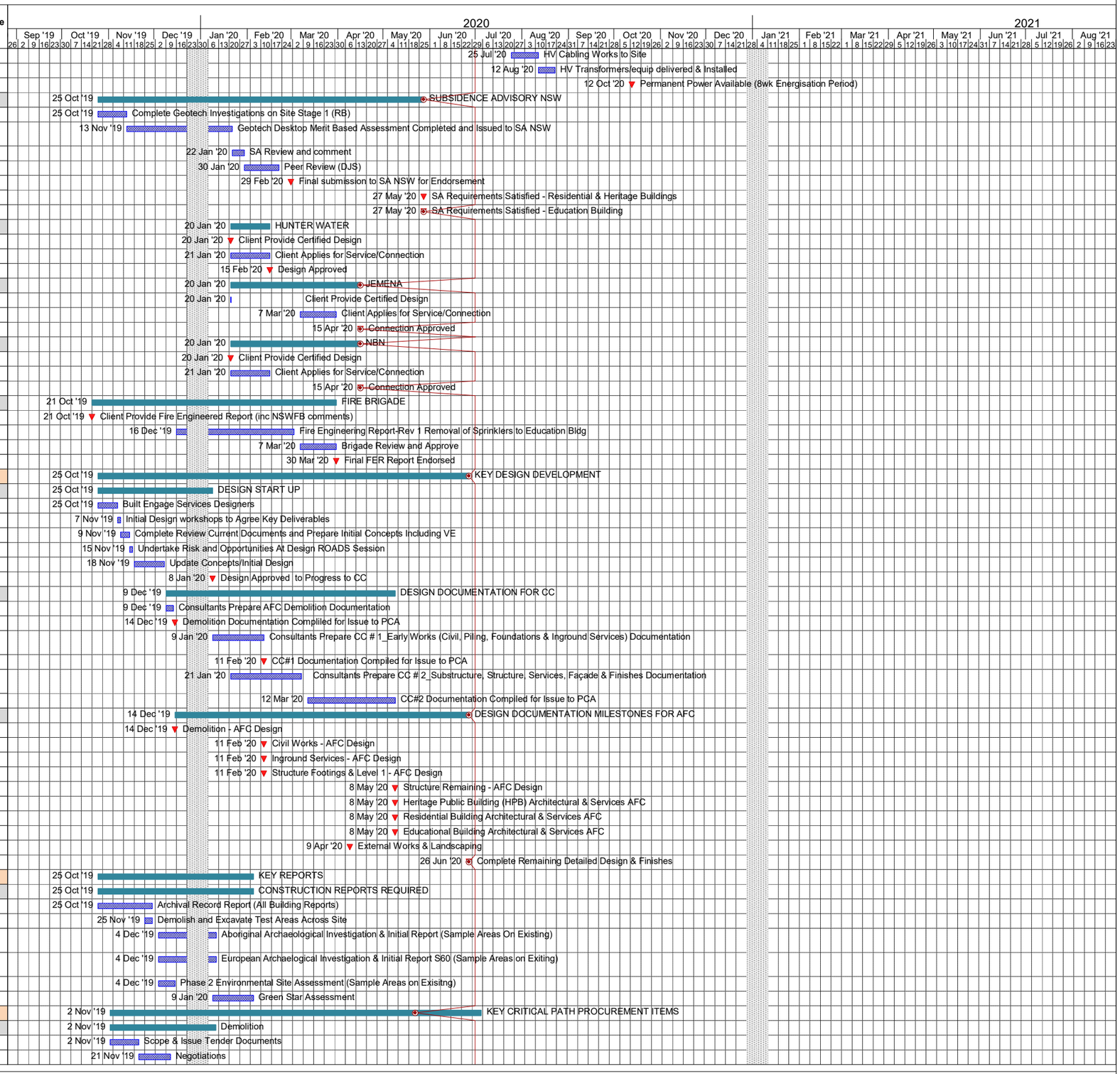


Critical Task | Non-critical | Milestone | Project Summary | Summary

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Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

ID	Task Name	Dur	Start	Finish	% Complete
66	HV Cabling Works to Site	15 d	Sat 25/07/20	Tue 11/08/20	0%
67	HV Transformers/equip delivered & Installed	10 d	Wed 12/08/20	Sat 22/08/20	0%
68	Permanent Power Available (8wk Energisation Period)	0 d	Mon 12/10/20	Mon 12/10/20	*0%*
69	**SUBSIDENCE ADVISORY NSW**	**158 d**	**Fri 25/10/19**	**Wed 27/05/20**	**99%**
70	Complete Geotech Investigations on Site Stage 1 (RB)	15 d	Fri 25/10/19	Tue 12/11/19	100%
71	Geotech Desktop Merit Based Assessment Completed and Issued to SA NSW	43 d	Wed 13/11/19	Tue 21/01/20	100%
72	SA Review and comment	4 d	Wed 22/01/20	Wed 29/01/20	100%
73	Peer Review (DJS)	20 d	Thu 30/01/20	Fri 21/02/20	100%
74	*Final submission to SA NSW for Endorsement*	*0 d*	*Sat 29/02/20*	*Sat 29/02/20*	*100%*
75	*SA Requirements Satisfied - Residential & Heritage Buildings*	*0 d*	*Wed 27/05/20*	*Wed 27/05/20*	*100%*
76	*SA Requirements Satisfied - Education Building*	*0 d*	*Wed 27/05/20*	*Wed 27/05/20*	*0%*
77	**HUNTER WATER**	**20 d**	**Mon 20/01/20**	**Sat 15/02/20**	**100%**
78	Client Provide Certified Design	0 d	Mon 20/01/20	Mon 20/01/20	*100%*
79	Client Applies for Service/Connection	20 d	Tue 21/01/20	Sat 15/02/20	100%
80	*Design Approved*	*0 d*	*Sat 15/02/20*	*Sat 15/02/20*	*100%*
81	**JEMENA**	**67 d**	**Mon 20/01/20**	**Wed 15/04/20**	**99%**
82	Client Provide Certified Design	37 d	Mon 20/01/20	Fri 6/03/20	100%
83	Client Applies for Service/Connection	20 d	Sat 7/03/20	Mon 30/03/20	100%
84	*Connection Approved*	*0 d*	*Wed 15/04/20*	*Wed 15/04/20*	*0%*
85	**NBN**	**67 d**	**Mon 20/01/20**	**Wed 15/04/20**	**99%**
86	Client Provide Certified Design	0 d	Mon 20/01/20	Mon 20/01/20	*100%*
87	Client Applies for Service/Connection	20 d	Tue 21/01/20	Sat 15/02/20	100%
88	*Connection Approved*	*0 d*	*Wed 15/04/20*	*Wed 15/04/20*	*0%*
89	**FIRE BRIGADE**	**118 d**	**Mon 21/10/19**	**Mon 30/03/20**	**100%**
90	Client Provide Fire Engineered Report (inc NSWFB comments)	0 d	Mon 21/10/19	Mon 21/10/19	*100%*
91	Fire Engineering Report-Rev 1 Removal of Sprinklers to Educatio	50 d	Mon 16/12/19	Mon 2/03/20	100%
92	Brigade Review and Approve	20 d	Sat 7/03/20	Mon 30/03/20	100%
93	*Final FER Report Endorsed*	*0 d*	*Mon 30/03/20*	*Mon 30/03/20*	*100%*
94	**KEY DESIGN DEVELOPMENT**	**180 d**	**Fri 25/10/19**	**Fri 26/06/20**	**99%**
95	**DESIGN START UP**	**47 d**	**Fri 25/10/19**	**Wed 8/01/20**	**100%**
96	Built Engage Services Designers	10 d	Fri 25/10/19	Wed 6/11/19	100%
97	Initial Design workshops to Agree Key Deliverables	2 d	Thu 7/11/19	Fri 8/11/19	100%
98	Complete Review Current Documents and Prepare Initial Concep	5 d	Sat 9/11/19	Thu 14/11/19	100%
99	Undertake Risk and Opportunities At Design ROADS Session	2 d	Fri 15/11/19	Sat 16/11/19	100%
100	Update Concepts/Initial Design	15 d	Mon 18/11/19	Sat 7/12/19	100%
101	Design Approved to Progress to CC	0 d	Wed 8/01/20	Wed 8/01/20	*100%*
102	**DESIGN DOCUMENTATION FOR CC**	**108 d**	**Mon 9/12/19**	**Fri 8/05/20**	**100%**
103	Consultants Prepare AFC Demolition Documentation	5 d	Mon 9/12/19	Fri 13/12/19	100%
104	Demolition Documentation Compliled for Issue to PCA	0 d	Sat 14/12/19	Sat 14/12/19	*100%*
105	Consultants Prepare CC # 1_Early Works (Civil, Piling, Foundations & Inground Services) Documentation	26 d	Thu 9/01/20	Tue 11/02/20	100%
106	CC#1 Documentation Compiled for Issue to PCA	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
107	Consultants Prepare CC # 2_Substructure, Structure, Services, Façade & Finishes Documentation	41 d	Tue 21/01/20	Wed 11/03/20	100%
108	CC#2 Documentation Compiled for Issue to PCA	44 d	Thu 12/03/20	Fri 8/05/20	100%
109	**DESIGN DOCUMENTATION MILESTONES FOR AFC**	**140 d**	**Sat 14/12/19**	**Fri 26/06/20**	**0%**
110	Demolition - AFC Design	0 d	Sat 14/12/19	Sat 14/12/19	*100%*
111	Civil Works - AFC Design	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
112	Inground Services - AFC Design	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
113	Structure Footings & Level 1 - AFC Design	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
114	Structure Remaining - AFC Design	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
115	Heritage Public Building (HPB) Architectural & Services AFC	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
116	Residential Building Architectural & Services AFC	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
117	Educational Building Architectural & Services AFC	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
118	External Works & Landscaping	0 d	Thu 9/04/20	Thu 9/04/20	*100%*
119	*Complete Remaining Detailed Design & Finishes*	*0 d*	*Fri 26/06/20*	*Fri 26/06/20*	*0%*
120	**KEY REPORTS**	**67 d**	**Fri 25/10/19**	**Tue 4/02/20**	**100%**
121	**CONSTRUCTION REPORTS REQUIRED**	**67 d**	**Fri 25/10/19**	**Tue 4/02/20**	**100%**
122	Archival Record Report (All Building Reports)	30 d	Fri 25/10/19	Fri 29/11/19	100%
123	Demolish and Excavate Test Areas Across Site	5 d	Mon 25/11/19	Fri 29/11/19	100%
124	Aboriginal Archaeological Investigation & Initial Report (Sample Areas On Existing)	19.5 d	Wed 4/12/19	Sat 11/01/20	100%
125	European Archaeological Investigation & Initial Report S60 (Sample Areas on Exiting)	19.5 d	Wed 4/12/19	Sat 11/01/20	100%
126	Phase 2 Environmental Site Assessment (Sample Areas on Exisi	10 d	Wed 4/12/19	Sat 14/12/19	100%
127	Green Star Assessment	20 d	Thu 9/01/20	Tue 4/02/20	100%
128	**KEY CRITICAL PATH PROCUREMENT ITEMS**	**180 d**	**Sat 2/11/19**	**Sat 4/07/20**	**85%**
129	**Demolition**	**42 d**	**Sat 2/11/19**	**Fri 10/01/20**	**100%**
130	Scope & Issue Tender Documents	15 d	Sat 2/11/19	Wed 20/11/19	100%
131	Negotiations	15 d	Thu 21/11/19	Wed 11/12/19	100%



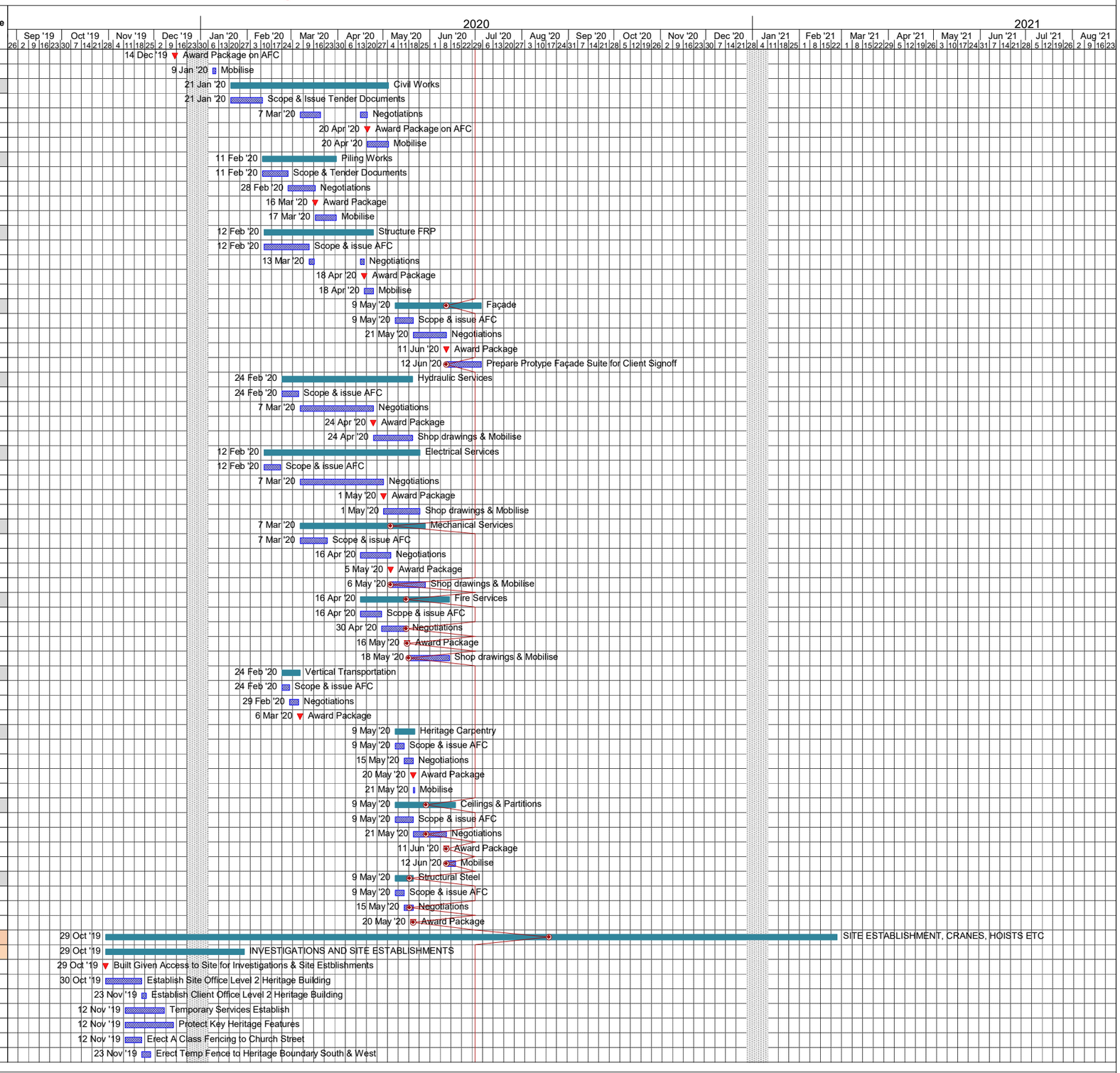
Critical Task | Non-critical | Milestone | Project Summary | Summary

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Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

Built.

ID	Task Name	Dur	Start	Finish	% Complete
132	*Award Package on AFC*	*0 d*	*Sat 14/12/19*	*Sat 14/12/19*	*100%*
133	Mobilise	2 d	Thu 9/01/20	Fri 10/01/20	100%
134	**Civil Works**	**80.75 d**	**Tue 21/01/20**	**Mon 4/05/20**	**100%**
135	Scope & Issue Tender Documents	15 d	Tue 21/01/20	Mon 10/02/20	100%
136	Negotiations	15 d	Sat 7/03/20	Mon 20/04/20	100%
137	*Award Package on AFC*	*0 d*	*Mon 20/04/20*	*Mon 20/04/20*	*100%*
138	Mobilise	10 d	Mon 20/04/20	Mon 4/05/20	100%
139	**Piling Works**	**42 d**	**Tue 11/02/20**	**Mon 30/03/20**	**100%**
140	Scope & Tender Documents	15 d	Tue 11/02/20	Thu 27/02/20	100%
141	Negotiations	15 d	Fri 28/02/20	Mon 16/03/20	100%
142	*Award Package*	*0 d*	*Mon 16/03/20*	*Mon 16/03/20*	*100%*
143	Mobilise	12 d	Tue 17/03/20	Mon 30/03/20	100%
144	**Structure FRP**	**58.5 d**	**Wed 12/02/20**	**Fri 24/04/20**	**100%**
145	Scope & issue AFC	26 d	Wed 12/02/20	Thu 12/03/20	100%
146	Negotiations	5 d	Fri 13/03/20	Sat 18/04/20	100%
147	*Award Package*	*0 d*	*Sat 18/04/20*	*Sat 18/04/20*	*100%*
148	Mobilise	5 d	Sat 18/04/20	Fri 24/04/20	100%
149	**Façade**	**45 d**	**Sat 9/05/20**	**Sat 4/07/20**	**56%**
150	Scope & issue AFC	10 d	Sat 9/05/20	Wed 20/05/20	100%
151	Negotiations	15 d	Thu 21/05/20	Thu 11/06/20	100%
152	*Award Package*	*0 d*	*Thu 11/06/20*	*Thu 11/06/20*	*100%*
153	Prepare Protype Façade Suite for Client Signoff	20 d	Fri 12/06/20	Sat 4/07/20	0%
154	**Hydraulic Services**	**68.5 d**	**Mon 24/02/20**	**Wed 20/05/20**	**100%**
155	Scope & issue AFC	10 d	Mon 24/02/20	Thu 5/03/20	100%
156	Negotiations	37.5 d	Sat 7/03/20	Fri 24/04/20	100%
157	*Award Package*	*0 d*	*Fri 24/04/20*	*Fri 24/04/20*	*100%*
158	Shop drawings & Mobilise	20 d	Fri 24/04/20	Wed 20/05/20	100%
159	**Electrical Services**	**82.25 d**	**Wed 12/02/20**	**Mon 25/05/20**	**100%**
160	Scope & issue AFC	10 d	Wed 12/02/20	Sat 22/02/20	100%
161	Negotiations	41.25 d	Sat 7/03/20	Fri 1/05/20	100%
162	*Award Package*	*0 d*	*Fri 1/05/20*	*Fri 1/05/20*	*100%*
163	Shop drawings & Mobilise	20 d	Fri 1/05/20	Mon 25/05/20	100%
164	**Mechanical Services**	**65 d**	**Sat 7/03/20**	**Thu 28/05/20**	**60%**
165	Scope & issue AFC	15 d	Sat 7/03/20	Tue 24/03/20	100%
166	Negotiations	15 d	Thu 16/04/20	Tue 5/05/20	100%
167	*Award Package*	*0 d*	*Tue 5/05/20*	*Tue 5/05/20*	*100%*
168	Shop drawings & Mobilise	20 d	Wed 6/05/20	Thu 28/05/20	0%
169	**Fire Services**	**45 d**	**Thu 16/04/20**	**Sat 13/06/20**	**54%**
170	Scope & issue AFC	10 d	Thu 16/04/20	Wed 29/04/20	100%
171	Negotiations	15 d	Thu 30/04/20	Sat 16/05/20	95%
172	*Award Package*	*0 d*	*Sat 16/05/20*	*Sat 16/05/20*	*0%*
173	Shop drawings & Mobilise	20 d	Mon 18/05/20	Sat 13/06/20	0%
174	**Vertical Transportation**	**11 d**	**Mon 24/02/20**	**Fri 6/03/20**	**100%**
175	Scope & issue AFC	5 d	Mon 24/02/20	Fri 28/02/20	100%
176	Negotiations	5 d	Sat 29/02/20	Thu 5/03/20	100%
177	*Award Package*	*0 d*	*Fri 6/03/20*	*Fri 6/03/20*	*100%*
178	**Heritage Carpentry**	**11 d**	**Sat 9/05/20**	**Thu 21/05/20**	**100%**
179	Scope & issue AFC	5 d	Sat 9/05/20	Thu 14/05/20	100%
180	Negotiations	5 d	Fri 15/05/20	Wed 20/05/20	100%
181	*Award Package*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*100%*
182	Mobilise	1 d	Thu 21/05/20	Thu 21/05/20	100%
183	**Ceilings & Partitions**	**30 d**	**Sat 9/05/20**	**Wed 17/06/20**	**58%**
184	Scope & issue AFC	10 d	Sat 9/05/20	Wed 20/05/20	100%
185	Negotiations	15 d	Thu 21/05/20	Thu 11/06/20	50%
186	*Award Package*	*0 d*	*Thu 11/06/20*	*Thu 11/06/20*	*0%*
187	Mobilise	5 d	Fri 12/06/20	Wed 17/06/20	0%
188	**Structural Steel**	**10 d**	**Sat 9/05/20**	**Wed 20/05/20**	**75%**
189	Scope & issue AFC	5 d	Sat 9/05/20	Thu 14/05/20	100%
190	Negotiations	5 d	Fri 15/05/20	Wed 20/05/20	50%
191	*Award Package*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*0%*
192	**SITE ESTABLISHMENT, CRANES, HOISTS ETC**	**360 d**	**Tue 29/10/19**	**Thu 25/02/21**	**61%**
193	**INVESTIGATIONS AND SITE ESTABLISHMENTS**	**58 d**	**Tue 29/10/19**	**Wed 29/01/20**	**100%**
194	*Built Given Access to Site for Investigations & Site Estblishments*	*0 d*	*Tue 29/10/19*	*Tue 29/10/19*	*100%*
195	Establish Site Office Level 2 Heritage Building	20 d	Wed 30/10/19	Fri 22/11/19	100%
196	Establish Client Office Level 2 Heritage Building	2 d	Sat 23/11/19	Mon 25/11/19	100%
197	Temporary Services Establish	20 d	Tue 12/11/19	Sat 7/12/19	100%
198	Protect Key Heritage Features	25 d	Tue 12/11/19	Fri 13/12/19	100%
199	Erect A Class Fencing to Church Street	10 d	Tue 12/11/19	Fri 22/11/19	100%
200	Erect Temp Fence to Heritage Boundary South & West	5 d	Sat 23/11/19	Thu 28/11/19	100%

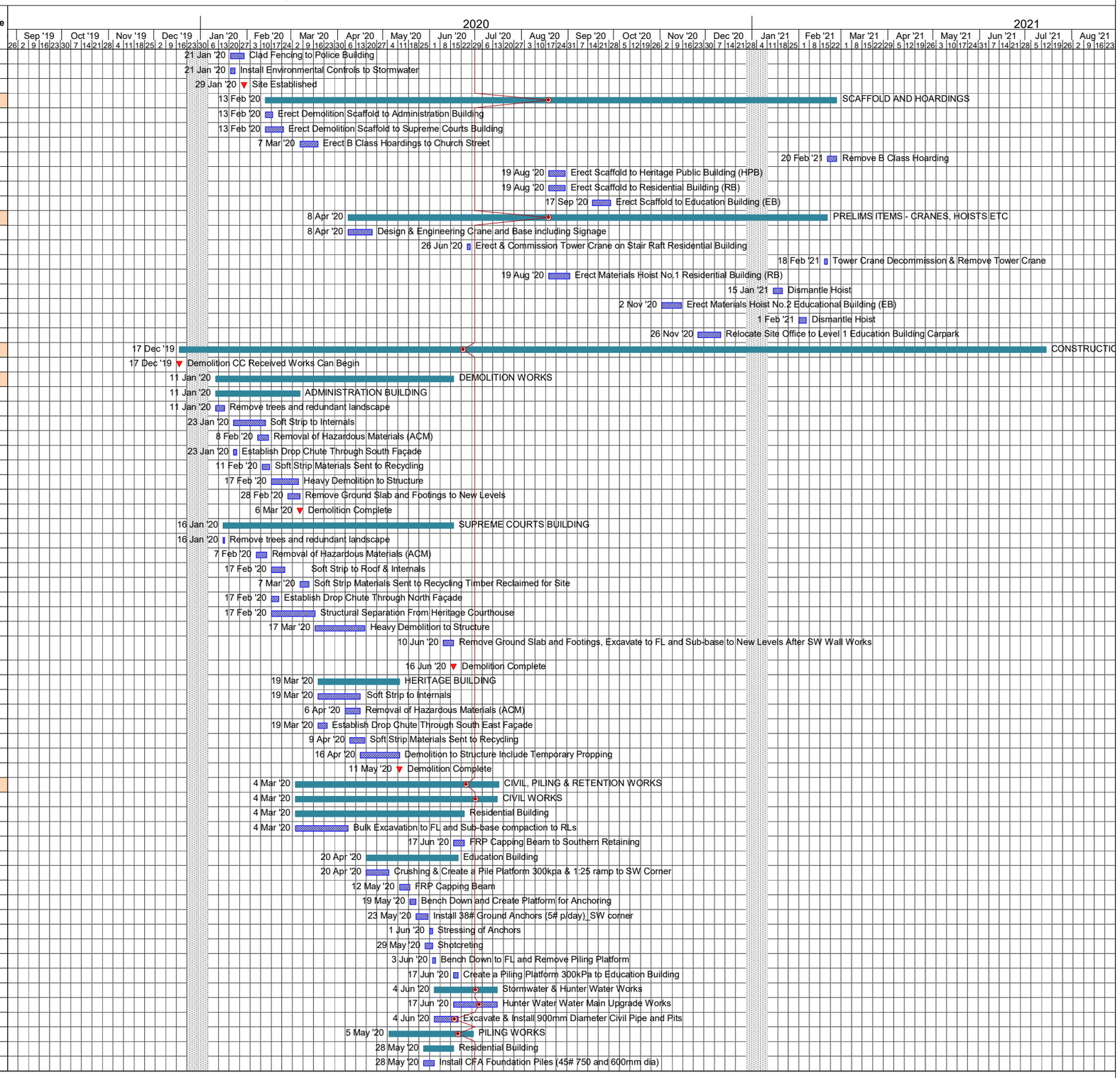


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9 CHURCH STREET NEWCASTLE 2300
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ID	Task Name	Dur	Start	Finish	% Complete
201	Clad Fencing to Police Building	5 d	Tue 21/01/20	Wed 29/01/20	100%
202	Install Environmental Controls to Stormwater	3 d	Tue 21/01/20	Thu 23/01/20	100%
203	Site Established	0 d	Wed 29/01/20	Wed 29/01/20	*100%*
204	**SCAFFOLD AND HOARDINGS**	**290 d**	**Thu 13/02/20**	**Thu 25/02/21**	**41%**
205	Erect Demolition Scaffold to Administration Building	4 d	Thu 13/02/20	Mon 17/02/20	100%
206	Erect Demolition Scaffold to Supreme Courts Building	10 d	Thu 13/02/20	Mon 24/02/20	100%
207	Erect B Class Hoardings to Church Street	10 d	Sat 7/03/20	Wed 18/03/20	100%
208	Remove B Class Hoarding	5 d	Sat 20/02/21	Thu 25/02/21	0%
209	Erect Scaffold to Heritage Public Building (HPB)	10 d	Wed 19/08/20	Sat 29/08/20	0%
210	Erect Scaffold to Residential Building (RB)	10 d	Wed 19/08/20	Sat 29/08/20	0%
211	Erect Scaffold to Education Building (EB)	10 d	Thu 17/09/20	Mon 28/09/20	0%
212	**PRELIMS ITEMS - CRANES, HOISTS ETC**	**238 d**	**Wed 8/04/20**	**Fri 19/02/21**	**21%**
213	Design & Engineering Crane and Base including Signage	10 d	Wed 8/04/20	Thu 23/04/20	100%
214	Erect & Commission Tower Crane on Stair Raft Residential Building	2 d	Fri 26/06/20	Sat 27/06/20	100%
215	Tower Crane Decommission & Remove Tower Crane	2 d	Thu 18/02/21	Fri 19/02/21	0%
216	Erect Materials Hoist No.1 Residential Building (RB)	12 d	Wed 19/08/20	Tue 1/09/20	0%
217	Dismantle Hoist	5 d	Fri 15/01/21	Wed 20/01/21	0%
218	Erect Materials Hoist No.2 Educational Building (EB)	12 d	Mon 2/11/20	Sat 14/11/20	0%
219	Dismantle Hoist	5 d	Mon 1/02/21	Fri 5/02/21	0%
220	Relocate Site Office to Level 1 Education Building Carpark	10 d	Thu 26/11/20	Thu 10/12/20	0%
221	**CONSTRUCTION WORKS**	**431 d**	**Tue 17/12/19**	**Wed 14/07/21**	**13%**
222	Demolition CC Received Works Can Begin	0 d	Tue 17/12/19	Tue 17/12/19	*100%*
223	**DEMOLITION WORKS**	**122 d**	**Sat 11/01/20**	**Tue 16/06/20**	**100%**
224	**ADMINISTRATION BUILDING**	**45 d**	**Sat 11/01/20**	**Fri 6/03/20**	**100%**
225	Remove trees and redundant landscape	5 d	Sat 11/01/20	Thu 16/01/20	100%
226	Soft Strip to Internals	15 d	Thu 23/01/20	Wed 12/02/20	100%
227	Removal of Hazardous Materials (ACM)	6 d	Sat 8/02/20	Fri 14/02/20	100%
228	Establish Drop Chute Through South Façade	2 d	Thu 23/01/20	Fri 24/01/20	100%
229	Soft Strip Materials Sent to Recycling	5 d	Tue 11/02/20	Sat 15/02/20	100%
230	Heavy Demolition to Structure	16 d	Mon 17/02/20	Thu 5/03/20	100%
231	Remove Ground Slab and Footings to New Levels	7 d	Fri 28/02/20	Fri 6/03/20	100%
232	*Demolition Complete*	*0 d*	*Fri 6/03/20*	*Fri 6/03/20*	*100%*
233	**SUPREME COURTS BUILDING**	**118 d**	**Thu 16/01/20**	**Tue 16/06/20**	**100%**
234	Remove trees and redundant landscape	1 d	Thu 16/01/20	Thu 16/01/20	100%
235	Removal of Hazardous Materials (ACM)	6 d	Fri 7/02/20	Thu 13/02/20	100%
236	Soft Strip to Roof & Internals	20 d	Mon 17/02/20	Tue 10/03/20	100%
237	Soft Strip Materials Sent to Recycling Timber Reclaimed for Site	5 d	Sat 7/03/20	Thu 12/03/20	100%
238	Establish Drop Chute Through North Façade	5 d	Mon 17/02/20	Fri 21/02/20	100%
239	Structural Separation From Heritage Courthouse	25 d	Mon 17/02/20	Mon 16/03/20	100%
240	Heavy Demolition to Structure	25 d	Tue 17/03/20	Sat 18/04/20	100%
241	Remove Ground Slab and Footings, Excavate to FL and Sub-base to New Levels After SW Wall Works	6 d	Wed 10/06/20	Tue 16/06/20	100%
242	*Demolition Complete*	*0 d*	*Tue 16/06/20*	*Tue 16/06/20*	*100%*
243	**HERITAGE BUILDING**	**40 d**	**Thu 19/03/20**	**Mon 11/05/20**	**100%**
244	Soft Strip to Internals	21 d	Thu 19/03/20	Thu 16/04/20	100%
245	Removal of Hazardous Materials (ACM)	5 d	Mon 6/04/20	Wed 15/04/20	100%
246	Establish Drop Chute Through South East Façade	5 d	Thu 19/03/20	Tue 24/03/20	100%
247	Soft Strip Materials Sent to Recycling	5 d	Thu 9/04/20	Sat 18/04/20	100%
248	Demolition to Structure Include Temporary Propping	20 d	Thu 16/04/20	Mon 11/05/20	100%
249	*Demolition Complete*	*0 d*	*Mon 11/05/20*	*Mon 11/05/20*	*100%*
250	**CIVIL, PILING & RETENTION WORKS**	**106 d**	**Wed 4/03/20**	**Thu 16/07/20**	**74%**
251	**CIVIL WORKS**	**105 d**	**Wed 4/03/20**	**Wed 15/07/20**	**89%**
252	**Residential Building**	**86 d**	**Wed 4/03/20**	**Tue 23/06/20**	**100%**
253	Bulk Excavation to FL and Sub-base compaction to RLs	30 d	Wed 4/03/20	Tue 7/04/20	100%
254	FRP Capping Beam to Southern Retaining	6 d	Wed 17/06/20	Tue 23/06/20	100%
255	**Education Building**	**47 d**	**Mon 20/04/20**	**Fri 19/06/20**	**100%**
256	Crushing & Create a Pile Platform 300kpa & 1:25 ramp to SW	11 d	Mon 20/04/20	Mon 4/05/20	100%
257	FRP Capping Beam	6 d	Tue 12/05/20	Mon 18/05/20	100%
258	Bench Down and Create Platform for Anchoring	4 d	Tue 19/05/20	Fri 22/05/20	100%
259	Install 38# Ground Anchors (5# p/day)_SW corner	7 d	Sat 23/05/20	Sat 30/05/20	100%
260	Stressing of Anchors	2 d	Mon 1/06/20	Tue 2/06/20	100%
261	Shotcreting	4 d	Fri 29/05/20	Tue 2/06/20	100%
262	Bench Down to FL and Remove Piling Platform	2 d	Wed 3/06/20	Thu 4/06/20	100%
263	Create a Piling Platform 300kPa to Education Building	3 d	Wed 17/06/20	Fri 19/06/20	100%
264	**Stormwater & Hunter Water Works**	**32 d**	**Thu 4/06/20**	**Wed 15/07/20**	**64%**
265	Hunter Water Water Main Upgrade Works	25 d	Wed 17/06/20	Wed 15/07/20	60%
266	Excavate & Install 900mm Diameter Civil Pipe and Pits	10 d	Thu 4/06/20	Fri 19/06/20	75%
267	**PILING WORKS**	**44 d**	**Tue 5/05/20**	**Mon 29/06/20**	**65%**
268	**Residential Building**	**13 d**	**Thu 28/05/20**	**Tue 16/06/20**	**100%**
269	Install CFA Foundation Piles (45# 750 and 600mm dia)	6 d	Thu 28/05/20	Wed 3/06/20	100%



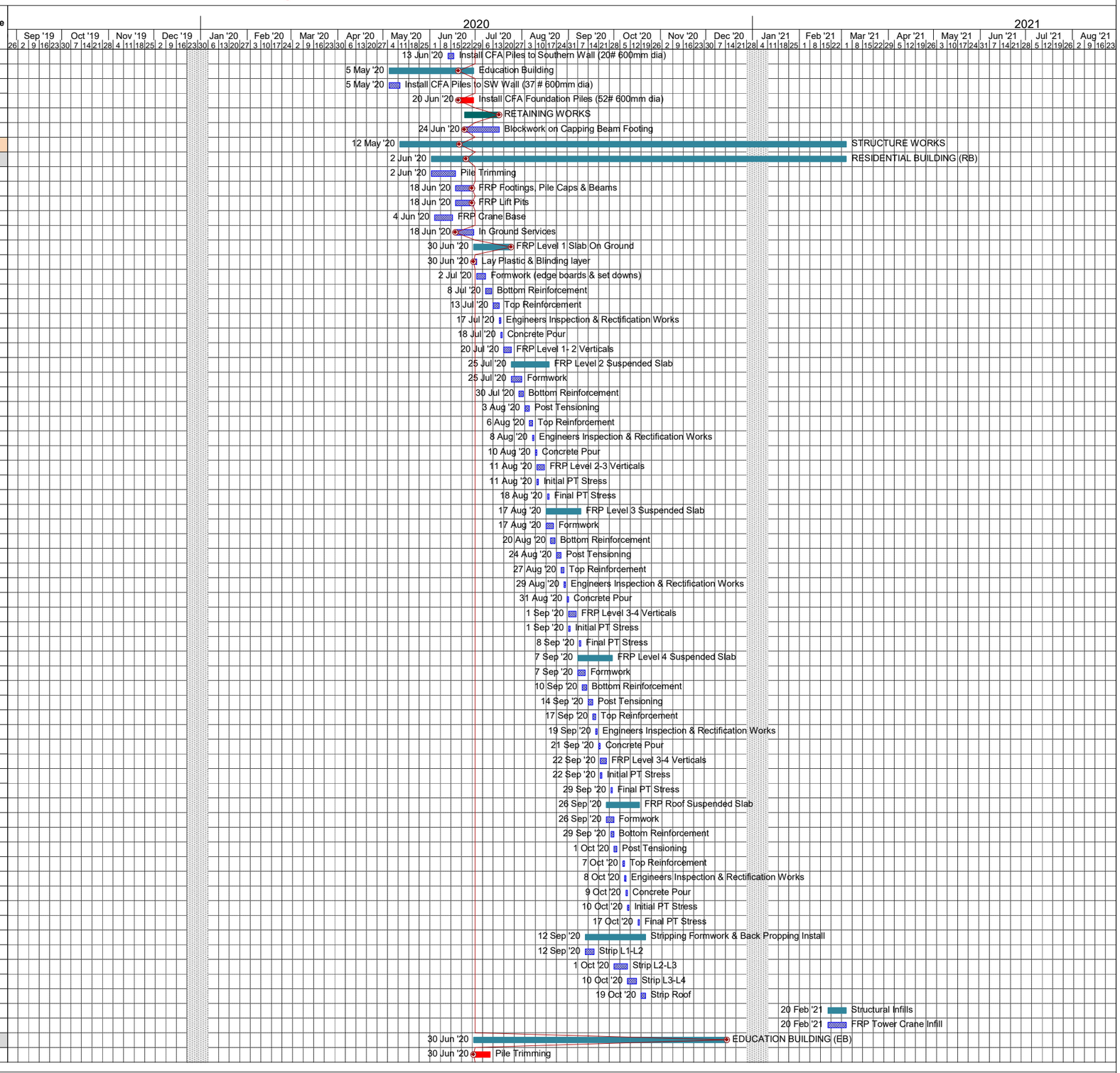
Critical Task | Non-critical | Milestone | Project Summary | Summary

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Revision : Rev 6 Contract

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9 CHURCH STREET NEWCASTLE 2300
Contract Programme

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ID	Task Name	Dur	Start	Finish	% Complete
270	Install CFA Piles to Southern Wall (20# 600mm dia)	3 d	Sat 13/06/20	Tue 16/06/20	100%
271	**Education Building**	**44 d**	**Tue 5/05/20**	**Mon 29/06/20**	**43%**
272	Install CFA Piles to SW Wall (37 # 600mm dia)	6 d	Tue 5/05/20	Mon 11/05/20	100%
273	Install CFA Foundation Piles (52# 600mm dia)	8 d	Sat 20/06/20	Mon 29/06/20	0%
274	**RETAINING WORKS**	**20 d**	**Wed 24/06/20**	**Thu 16/07/20**	**0%**
275	Blockwork on Capping Beam Footing	20 d	Wed 24/06/20	Thu 16/07/20	0%
276	**STRUCTURE WORKS**	**225 d**	**Tue 12/05/20**	**Wed 3/03/21**	**12%**
277	**RESIDENTIAL BUILDING (RB)**	**207 d**	**Tue 2/06/20**	**Wed 3/03/21**	**19%**
278	Pile Trimming	10 d	Tue 2/06/20	Wed 17/06/20	100%
279	FRP Footings, Pile Caps & Beams	10 d	Thu 18/06/20	Mon 29/06/20	90%
280	FRP Lift Pits	10 d	Thu 18/06/20	Mon 29/06/20	90%
281	FRP Crane Base	6 d	Thu 4/06/20	Mon 15/06/20	100%
282	In Ground Services	10 d	Thu 18/06/20	Mon 29/06/20	0%
283	**FRP Level 1 Slab On Ground**	**22 d**	**Tue 30/06/20**	**Fri 24/07/20**	**0%**
284	Lay Plastic & Blinding layer	2 d	Tue 30/06/20	Wed 1/07/20	0%
285	Formwork (edge boards & set downs)	5 d	Thu 2/07/20	Tue 7/07/20	0%
286	Bottom Reinforcement	4 d	Wed 8/07/20	Sat 11/07/20	0%
287	Top Reinforcement	4 d	Mon 13/07/20	Thu 16/07/20	0%
288	Engineers Inspection & Rectification Works	1 d	Fri 17/07/20	Fri 17/07/20	0%
289	Concrete Pour	1 d	Sat 18/07/20	Sat 18/07/20	0%
290	FRP Level 1- 2 Verticals	5 d	Mon 20/07/20	Fri 24/07/20	0%
291	**FRP Level 2 Suspended Slab**	**21 d**	**Sat 25/07/20**	**Tue 18/08/20**	**0%**
292	Formwork	6 d	Sat 25/07/20	Fri 31/07/20	0%
293	Bottom Reinforcement	3 d	Thu 30/07/20	Sat 1/08/20	0%
294	Post Tensioning	3 d	Mon 3/08/20	Wed 5/08/20	0%
295	Top Reinforcement	2 d	Thu 6/08/20	Fri 7/08/20	0%
296	Engineers Inspection & Rectification Works	1 d	Sat 8/08/20	Sat 8/08/20	0%
297	Concrete Pour	1 d	Mon 10/08/20	Mon 10/08/20	0%
298	FRP Level 2-3 Verticals	5 d	Tue 11/08/20	Sat 15/08/20	0%
299	Initial PT Stress	1 d	Tue 11/08/20	Tue 11/08/20	0%
300	Final PT Stress	1 d	Tue 18/08/20	Tue 18/08/20	0%
301	**FRP Level 3 Suspended Slab**	**20 d**	**Mon 17/08/20**	**Tue 8/09/20**	**0%**
302	Formwork	5 d	Mon 17/08/20	Fri 21/08/20	0%
303	Bottom Reinforcement	3 d	Thu 20/08/20	Sat 22/08/20	0%
304	Post Tensioning	3 d	Mon 24/08/20	Wed 26/08/20	0%
305	Top Reinforcement	2 d	Thu 27/08/20	Fri 28/08/20	0%
306	Engineers Inspection & Rectification Works	1 d	Sat 29/08/20	Sat 29/08/20	0%
307	Concrete Pour	1 d	Mon 31/08/20	Mon 31/08/20	0%
308	FRP Level 3-4 Verticals	5 d	Tue 1/09/20	Sat 5/09/20	0%
309	Initial PT Stress	1 d	Tue 1/09/20	Tue 1/09/20	0%
310	Final PT Stress	1 d	Tue 8/09/20	Tue 8/09/20	0%
311	**FRP Level 4 Suspended Slab**	**20 d**	**Mon 7/09/20**	**Tue 29/09/20**	**0%**
312	Formwork	5 d	Mon 7/09/20	Fri 11/09/20	0%
313	Bottom Reinforcement	3 d	Thu 10/09/20	Sat 12/09/20	0%
314	Post Tensioning	3 d	Mon 14/09/20	Wed 16/09/20	0%
315	Top Reinforcement	2 d	Thu 17/09/20	Fri 18/09/20	0%
316	Engineers Inspection & Rectification Works	1 d	Sat 19/09/20	Sat 19/09/20	0%
317	Concrete Pour	1 d	Mon 21/09/20	Mon 21/09/20	0%
318	FRP Level 3-4 Verticals	4 d	Tue 22/09/20	Fri 25/09/20	0%
319	Initial PT Stress	1 d	Tue 22/09/20	Tue 22/09/20	0%
320	Final PT Stress	1 d	Tue 29/09/20	Tue 29/09/20	0%
321	**FRP Roof Suspended Slab**	**16 d**	**Sat 26/09/20**	**Sat 17/10/20**	**0%**
322	Formwork	4 d	Sat 26/09/20	Wed 30/09/20	0%
323	Bottom Reinforcement	2 d	Tue 29/09/20	Wed 30/09/20	0%
324	Post Tensioning	2 d	Thu 1/10/20	Fri 2/10/20	0%
325	Top Reinforcement	1 d	Wed 7/10/20	Wed 7/10/20	0%
326	Engineers Inspection & Rectification Works	1 d	Thu 8/10/20	Thu 8/10/20	0%
327	Concrete Pour	1 d	Fri 9/10/20	Fri 9/10/20	0%
328	Initial PT Stress	1 d	Sat 10/10/20	Sat 10/10/20	0%
329	Final PT Stress	1 d	Sat 17/10/20	Sat 17/10/20	0%
330	**Stripping Formwork & Back Propping Install**	**31 d**	**Sat 12/09/20**	**Wed 21/10/20**	**0%**
331	Strip L1-L2	5 d	Sat 12/09/20	Thu 17/09/20	0%
332	Strip L2-L3	5 d	Thu 1/10/20	Fri 9/10/20	0%
333	Strip L3-L4	5 d	Sat 10/10/20	Thu 15/10/20	0%
334	Strip Roof	3 d	Mon 19/10/20	Wed 21/10/20	0%
335	**Structural Infills**	**10 d**	**Sat 20/02/21**	**Wed 3/03/21**	**0%**
336	FRP Tower Crane Infill	10 d	Sat 20/02/21	Wed 3/03/21	0%
337	**EDUCATION BUILDING (EB)**	**138 d**	**Tue 30/06/20**	**Mon 14/12/20**	**0%**
338	Pile Trimming	10 d	Tue 30/06/20	Fri 10/07/20	0%

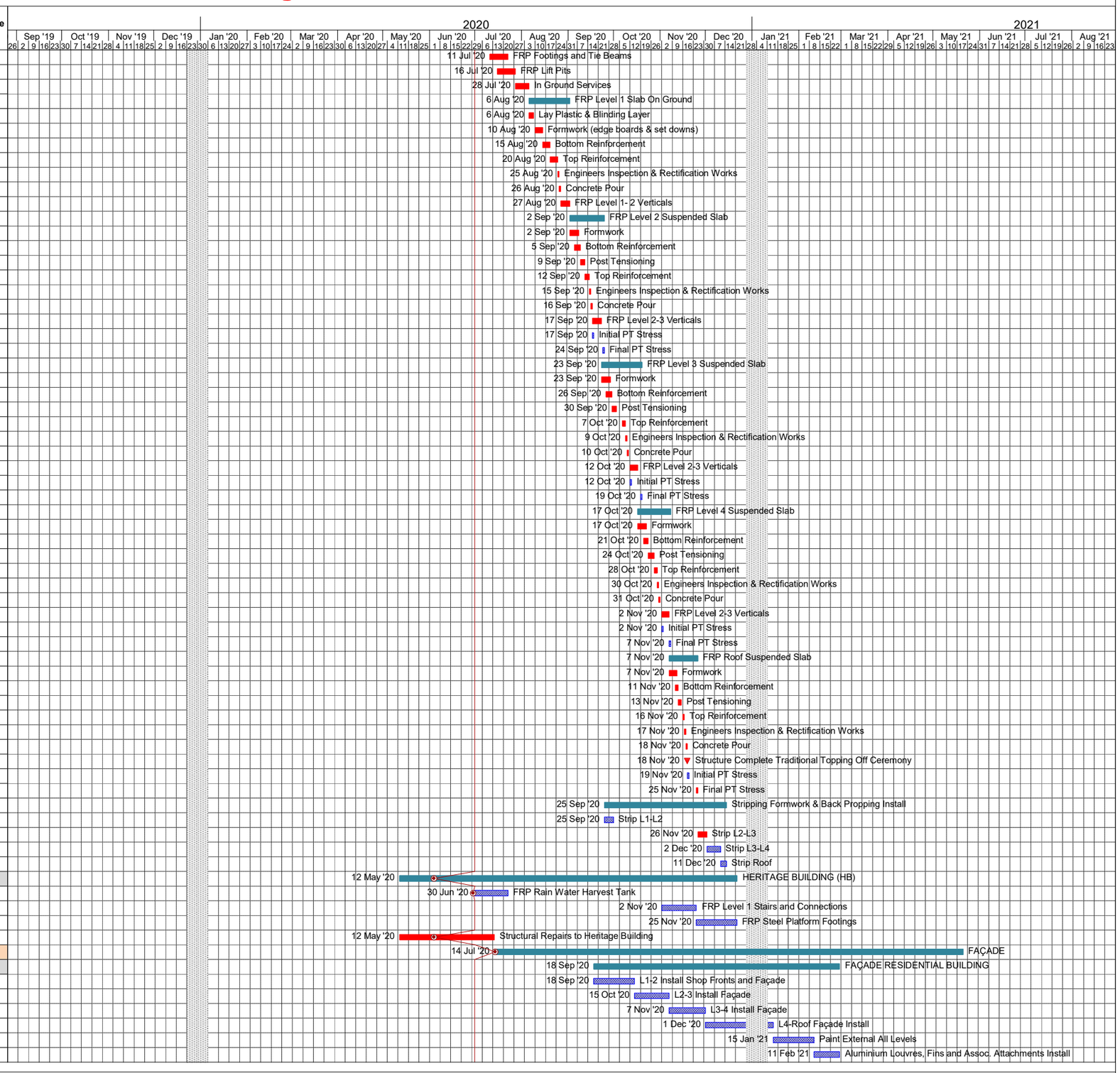


Critical Task | Non-critical | Milestone | Project Summary | Summary

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9 CHURCH STREET NEWCASTLE 2300
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ID	Task Name	Dur	Start	Finish	% Complete
339	FRP Footings and Tie Beams	10 d	Sat 11/07/20	Wed 22/07/20	0%
340	FRP Lift Pits	10 d	Thu 16/07/20	Mon 27/07/20	0%
341	In Ground Services	8 d	Tue 28/07/20	Wed 5/08/20	0%
342	**FRP Level 1 Slab On Ground**	**23 d**	**Thu 6/08/20**	**Tue 1/09/20**	**0%**
343	Lay Plastic & Blinding Layer	3 d	Thu 6/08/20	Sat 8/08/20	0%
344	Formwork (edge boards & set downs)	5 d	Mon 10/08/20	Fri 14/08/20	0%
345	Bottom Reinforcement	4 d	Sat 15/08/20	Wed 19/08/20	0%
346	Top Reinforcement	4 d	Thu 20/08/20	Mon 24/08/20	0%
347	Engineers Inspection & Rectification Works	1 d	Tue 25/08/20	Tue 25/08/20	0%
348	Concrete Pour	1 d	Wed 26/08/20	Wed 26/08/20	0%
349	FRP Level 1- 2 Verticals	5 d	Thu 27/08/20	Tue 1/09/20	0%
350	**FRP Level 2 Suspended Slab**	**20 d**	**Wed 2/09/20**	**Thu 24/09/20**	**0%**
351	Formwork	5 d	Wed 2/09/20	Mon 7/09/20	0%
352	Bottom Reinforcement	3 d	Sat 5/09/20	Tue 8/09/20	0%
353	Post Tensioning	3 d	Wed 9/09/20	Fri 11/09/20	0%
354	Top Reinforcement	2 d	Sat 12/09/20	Mon 14/09/20	0%
355	Engineers Inspection & Rectification Works	1 d	Tue 15/09/20	Tue 15/09/20	0%
356	Concrete Pour	1 d	Wed 16/09/20	Wed 16/09/20	0%
357	FRP Level 2-3 Verticals	5 d	Thu 17/09/20	Tue 22/09/20	0%
358	Initial PT Stress	1 d	Thu 17/09/20	Thu 17/09/20	0%
359	Final PT Stress	1 d	Thu 24/09/20	Thu 24/09/20	0%
360	**FRP Level 3 Suspended Slab**	**20 d**	**Wed 23/09/20**	**Mon 19/10/20**	**0%**
361	Formwork	5 d	Wed 23/09/20	Mon 28/09/20	0%
362	Bottom Reinforcement	3 d	Sat 26/09/20	Tue 29/09/20	0%
363	Post Tensioning	3 d	Wed 30/09/20	Fri 2/10/20	0%
364	Top Reinforcement	2 d	Wed 7/10/20	Thu 8/10/20	0%
365	Engineers Inspection & Rectification Works	1 d	Fri 9/10/20	Fri 9/10/20	0%
366	Concrete Pour	1 d	Sat 10/10/20	Sat 10/10/20	0%
367	FRP Level 2-3 Verticals	5 d	Mon 12/10/20	Fri 16/10/20	0%
368	Initial PT Stress	1 d	Mon 12/10/20	Mon 12/10/20	0%
369	Final PT Stress	1 d	Mon 19/10/20	Mon 19/10/20	0%
370	**FRP Level 4 Suspended Slab**	**19 d**	**Sat 17/10/20**	**Sat 7/11/20**	**0%**
371	Formwork	5 d	Sat 17/10/20	Thu 22/10/20	0%
372	Bottom Reinforcement	3 d	Wed 21/10/20	Fri 23/10/20	0%
373	Post Tensioning	3 d	Sat 24/10/20	Tue 27/10/20	0%
374	Top Reinforcement	2 d	Wed 28/10/20	Thu 29/10/20	0%
375	Engineers Inspection & Rectification Works	1 d	Fri 30/10/20	Fri 30/10/20	0%
376	Concrete Pour	1 d	Sat 31/10/20	Sat 31/10/20	0%
377	FRP Level 2-3 Verticals	5 d	Mon 2/11/20	Fri 6/11/20	0%
378	Initial PT Stress	1 d	Mon 2/11/20	Mon 2/11/20	0%
379	Final PT Stress	1 d	Sat 7/11/20	Sat 7/11/20	0%
380	**FRP Roof Suspended Slab**	**16 d**	**Sat 7/11/20**	**Wed 25/11/20**	**0%**
381	Formwork	4 d	Sat 7/11/20	Wed 11/11/20	0%
382	Bottom Reinforcement	2 d	Wed 11/11/20	Thu 12/11/20	0%
383	Post Tensioning	2 d	Fri 13/11/20	Sat 14/11/20	0%
384	Top Reinforcement	1 d	Mon 16/11/20	Mon 16/11/20	0%
385	Engineers Inspection & Rectification Works	1 d	Tue 17/11/20	Tue 17/11/20	0%
386	Concrete Pour	1 d	Wed 18/11/20	Wed 18/11/20	0%
387	*Structure Complete Traditional Topping Off Ceremony*	*0 d*	*Wed 18/11/20*	*Wed 18/11/20*	*0%*
388	Initial PT Stress	1 d	Thu 19/11/20	Thu 19/11/20	0%
389	Final PT Stress	1 d	Wed 25/11/20	Wed 25/11/20	0%
390	**Stripping Formwork & Back Propping Install**	**63 d**	**Fri 25/09/20**	**Mon 14/12/20**	**0%**
391	Strip L1-L2	5 d	Fri 25/09/20	Wed 30/09/20	0%
392	Strip L2-L3	5 d	Thu 26/11/20	Tue 1/12/20	0%
393	Strip L3-L4	5 d	Wed 2/12/20	Thu 10/12/20	0%
394	Strip Roof	3 d	Fri 11/12/20	Mon 14/12/20	0%
395	**HERITAGE BUILDING (HB)**	**182 d**	**Tue 12/05/20**	**Mon 21/12/20**	**18%**
396	FRP Rain Water Harvest Tank	20 d	Tue 30/06/20	Wed 22/07/20	0%
397	FRP Level 1 Stairs and Connections	20 d	Mon 2/11/20	Tue 24/11/20	0%
398	FRP Steel Platform Footings	20 d	Wed 25/11/20	Mon 21/12/20	0%
399	Structural Repairs to Heritage Building	50 d	Tue 12/05/20	Mon 13/07/20	40%
400	**FAÇADE**	**235 d**	**Tue 14/07/20**	**Thu 20/05/21**	**0%**
401	**FAÇADE RESIDENTIAL BUILDING**	**115 d**	**Fri 18/09/20**	**Sat 27/02/21**	**0%**
402	L1-2 Install Shop Fronts and Façade	20 d	Fri 18/09/20	Wed 14/10/20	0%
403	L2-3 Install Façade	20 d	Thu 15/10/20	Fri 6/11/20	0%
404	L3-4 Install Façade	20 d	Sat 7/11/20	Mon 30/11/20	0%
405	L4-Roof Façade Install	20 d	Tue 1/12/20	Thu 14/01/21	0%
406	Paint External All Levels	20 d	Fri 15/01/21	Wed 10/02/21	0%
407	Aluminium Louvres, Fins and Assoc. Attachments Install	15 d	Thu 11/02/21	Sat 27/02/21	0%



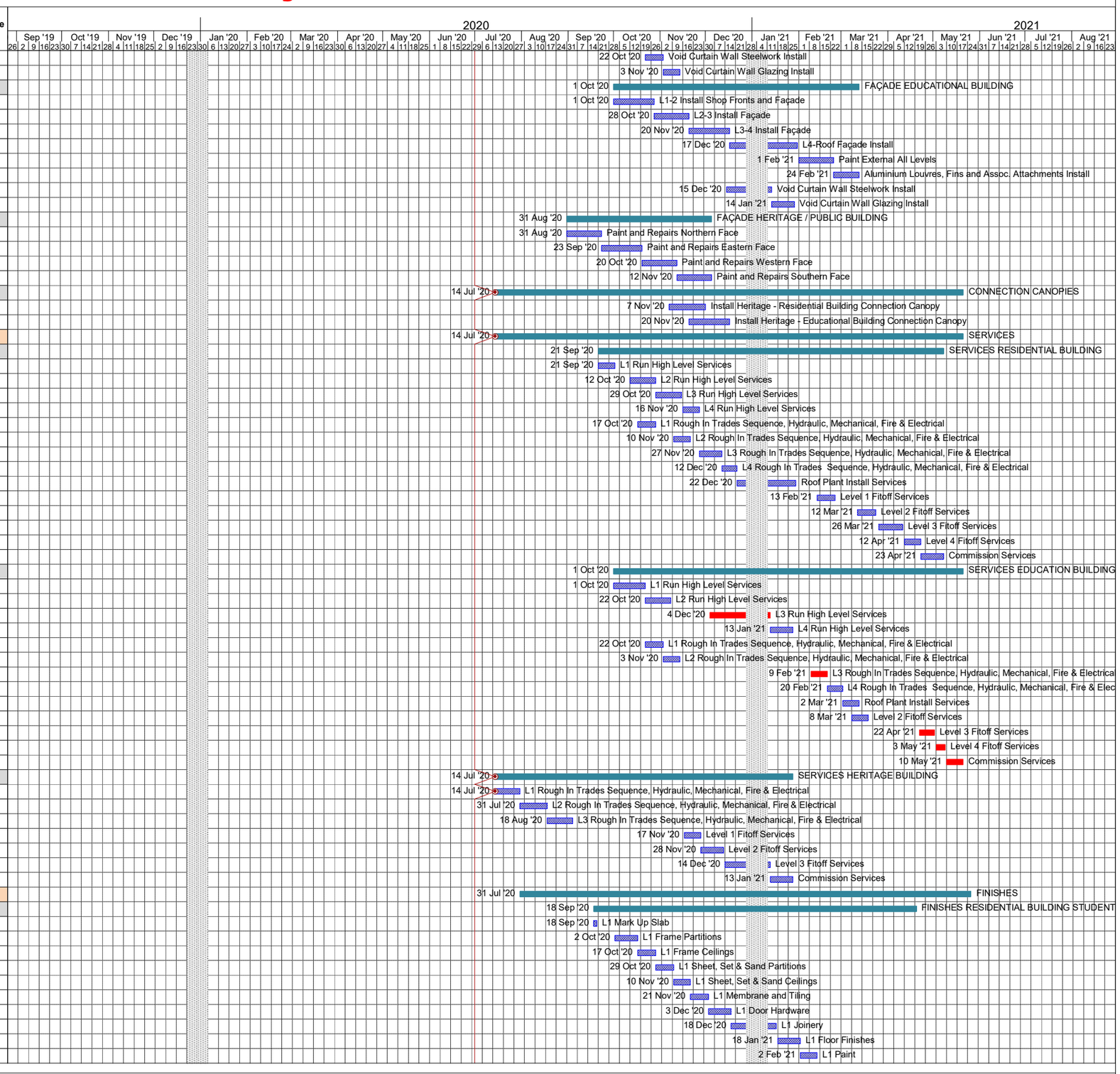
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ID	Task Name	Dur	Start	Finish	% Complete
408	Void Curtain Wall Steelwork Install	10 d	Thu 22/10/20	Mon 2/11/20	0%
409	Void Curtain Wall Glazing Install	10 d	Tue 3/11/20	Fri 13/11/20	0%
410	**FAÇADE EDUCATIONAL BUILDING**	**115 d**	**Thu 1/10/20**	**Fri 12/03/21**	**0%**
411	L1-2 Install Shop Fronts and Façade	20 d	Thu 1/10/20	Tue 27/10/20	0%
412	L2-3 Install Façade	20 d	Wed 28/10/20	Thu 19/11/20	0%
413	L3-4 Install Façade	20 d	Fri 20/11/20	Wed 16/12/20	0%
414	L4-Roof Façade Install	20 d	Thu 17/12/20	Sat 30/01/21	0%
415	Paint External All Levels	20 d	Mon 1/02/21	Tue 23/02/21	0%
416	Aluminium Louvres, Fins and Assoc. Attachments Install	15 d	Wed 24/02/21	Fri 12/03/21	0%
417	Void Curtain Wall Steelwork Install	10 d	Tue 15/12/20	Wed 13/01/21	0%
418	Void Curtain Wall Glazing Install	10 d	Thu 14/01/21	Thu 28/01/21	0%
419	**FAÇADE HERITAGE / PUBLIC BUILDING**	**80 d**	**Mon 31/08/20**	**Fri 4/12/20**	**0%**
420	Paint and Repairs Northern Face	20 d	Mon 31/08/20	Tue 22/09/20	0%
421	Paint and Repairs Eastern Face	20 d	Wed 23/09/20	Mon 19/10/20	0%
422	Paint and Repairs Western Face	20 d	Tue 20/10/20	Wed 11/11/20	0%
423	Paint and Repairs Southern Face	20 d	Thu 12/11/20	Fri 4/12/20	0%
424	**CONNECTION CANOPIES**	**235 d**	**Tue 14/07/20**	**Thu 20/05/21**	**0%**
425	Install Heritage - Residential Building Connection Canopy	20 d	Sat 7/11/20	Mon 30/11/20	0%
426	Install Heritage - Educational Building Connection Canopy	20 d	Fri 20/11/20	Wed 16/12/20	0%
427	**SERVICES**	**235 d**	**Tue 14/07/20**	**Thu 20/05/21**	**0%**
428	**SERVICES RESIDENTIAL BUILDING**	**165 d**	**Mon 21/09/20**	**Fri 7/05/21**	**0%**
429	L1 Run High Level Services	10 d	Mon 21/09/20	Thu 1/10/20	0%
430	L2 Run High Level Services	15 d	Mon 12/10/20	Wed 28/10/20	0%
431	L3 Run High Level Services	15 d	Thu 29/10/20	Sat 14/11/20	0%
432	L4 Run High Level Services	10 d	Mon 16/11/20	Thu 26/11/20	0%
433	L1 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Sat 17/10/20	Wed 28/10/20	0%
434	L2 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Tue 10/11/20	Fri 20/11/20	0%
435	L3 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Fri 27/11/20	Fri 11/12/20	0%
436	L4 Rough In Trades Sequence, Hydraulic, Mechanical, Fi	8 d	Sat 12/12/20	Mon 21/12/20	0%
437	Roof Plant Install Services	15 d	Tue 22/12/20	Fri 29/01/21	0%
438	Level 1 Fitoff Services	10 d	Sat 13/02/21	Wed 24/02/21	0%
439	Level 2 Fitoff Services	10 d	Fri 12/03/21	Tue 23/03/21	0%
440	Level 3 Fitoff Services	10 d	Fri 26/03/21	Sat 10/04/21	0%
441	Level 4 Fitoff Services	10 d	Mon 12/04/21	Thu 22/04/21	0%
442	Commission Services	10 d	Fri 23/04/21	Fri 7/05/21	0%
443	**SERVICES EDUCATION BUILDING**	**167 d**	**Thu 1/10/20**	**Thu 20/05/21**	**0%**
444	L1 Run High Level Services	15 d	Thu 1/10/20	Wed 21/10/20	0%
445	L2 Run High Level Services	15 d	Thu 22/10/20	Sat 7/11/20	0%
446	L3 Run High Level Services	15 d	Fri 4/12/20	Tue 12/01/21	0%
447	L4 Run High Level Services	10 d	Wed 13/01/21	Wed 27/01/21	0%
448	L1 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Thu 22/10/20	Mon 2/11/20	0%
449	L2 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Tue 3/11/20	Fri 13/11/20	0%
450	L3 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Tue 9/02/21	Fri 19/02/21	0%
451	L4 Rough In Trades Sequence, Hydraulic, Mechanical, Fi	8 d	Sat 20/02/21	Mon 1/03/21	0%
452	Roof Plant Install Services	10 d	Tue 2/03/21	Fri 12/03/21	0%
453	Level 2 Fitoff Services	10 d	Mon 8/03/21	Thu 18/03/21	0%
454	Level 3 Fitoff Services	6 d	Thu 22/04/21	Sat 1/05/21	0%
455	Level 4 Fitoff Services	6 d	Mon 3/05/21	Sat 8/05/21	0%
456	Commission Services	10 d	Mon 10/05/21	Thu 20/05/21	0%
457	**SERVICES HERITAGE BUILDING**	**145 d**	**Tue 14/07/20**	**Wed 27/01/21**	**1%**
458	L1 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	15 d	Tue 14/07/20	Thu 30/07/20	5%
459	L2 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	15 d	Fri 31/07/20	Mon 17/08/20	0%
460	L3 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	15 d	Tue 18/08/20	Thu 3/09/20	0%
461	Level 1 Fitoff Services	10 d	Tue 17/11/20	Fri 27/11/20	0%
462	Level 2 Fitoff Services	10 d	Sat 28/11/20	Sat 12/12/20	0%
463	Level 3 Fitoff Services	10 d	Mon 14/12/20	Tue 12/01/21	0%
464	Commission Services	10 d	Wed 13/01/21	Wed 27/01/21	0%
465	**FINISHES**	**224 d**	**Fri 31/07/20**	**Tue 25/05/21**	**0%**
466	**FINISHES RESIDENTIAL BUILDING STUDENT ACCOMM**	**154 d**	**Fri 18/09/20**	**Mon 19/04/21**	**0%**
467	L1 Mark Up Slab	2 d	Fri 18/09/20	Sat 19/09/20	0%
468	L1 Frame Partitions	10 d	Fri 2/10/20	Fri 16/10/20	0%
469	L1 Frame Ceilings	10 d	Sat 17/10/20	Wed 28/10/20	0%
470	L1 Sheet, Set & Sand Partitions	10 d	Thu 29/10/20	Mon 9/11/20	0%
471	L1 Sheet, Set & Sand Ceilings	10 d	Tue 10/11/20	Fri 20/11/20	0%
472	L1 Membrane and Tiling	10 d	Sat 21/11/20	Wed 2/12/20	0%
473	L1 Door Hardware	10 d	Thu 3/12/20	Thu 17/12/20	0%
474	L1 Joinery	10 d	Fri 18/12/20	Sat 16/01/21	0%
475	L1 Floor Finishes	10 d	Mon 18/01/21	Mon 1/02/21	0%
476	L1 Paint	10 d	Tue 2/02/21	Fri 12/02/21	0%



Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
Checked:
Revision : Rev 6 Contract

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

Built.

ID	Task Name	Dur	Start	Finish	% Complete
477	L1 FFE	5 d	Sat 13/02/21	Thu 18/02/21	0%
478	L1 Clean and Defects	5 d	Fri 19/02/21	Wed 24/02/21	0%
479	L1 Cafeteria and Kitchen Fitout	40 d	Thu 25/02/21	Fri 16/04/21	0%
480	L2 Mark Up Slab	1 d	Sat 10/10/20	Sat 10/10/20	0%
481	L2 Frame Partitions	10 d	Thu 29/10/20	Mon 9/11/20	0%
482	L2 Frame Ceilings	10 d	Tue 10/11/20	Fri 20/11/20	0%
483	L2 Sheet, Set & Sand Partitions	10 d	Sat 21/11/20	Wed 2/12/20	0%
484	L2 Sheet, Set & Sand Ceilings	10 d	Thu 3/12/20	Thu 17/12/20	0%
485	L2 Membrane and Tiling	10 d	Fri 18/12/20	Sat 16/01/21	0%
486	L2 Door Hardware	10 d	Mon 18/01/21	Mon 1/02/21	0%
487	L2 Joinery	10 d	Sat 30/01/21	Wed 10/02/21	0%
488	L2 Floor Finishes	15 d	Thu 11/02/21	Sat 27/02/21	0%
489	L2 Paint	10 d	Mon 1/03/21	Thu 11/03/21	0%
490	L2 FFE	5 d	Fri 12/03/21	Wed 17/03/21	0%
491	L2 Clean and Defects	5 d	Thu 18/03/21	Tue 23/03/21	0%
492	L3 Mark Up Slab	2 d	Fri 16/10/20	Sat 17/10/20	0%
493	L3 Frame Partitions	10 d	Mon 16/11/20	Thu 26/11/20	0%
494	L3 Frame Ceilings	10 d	Fri 27/11/20	Fri 11/12/20	0%
495	L3 Sheet, Set & Sand Partitions	10 d	Sat 12/12/20	Mon 11/01/21	0%
496	L3 Sheet, Set & Sand Ceilings	10 d	Tue 12/01/21	Fri 22/01/21	0%
497	L3 Membrane and Tiling	10 d	Wed 27/01/21	Sat 6/02/21	0%
498	L3 Door Hardware	10 d	Mon 8/02/21	Thu 18/02/21	0%
499	L3 Joinery	10 d	Fri 19/02/21	Tue 2/03/21	0%
500	L3 Floor Finishes	10 d	Wed 3/03/21	Sat 13/03/21	0%
501	L3 Paint	10 d	Mon 15/03/21	Thu 25/03/21	0%
502	L3 FFE	10 d	Fri 26/03/21	Sat 10/04/21	0%
503	L3 Clean and Defects	4 d	Mon 12/04/21	Thu 15/04/21	0%
504	L4 Mark Up Slab	2 d	Thu 22/10/20	Fri 23/10/20	0%
505	L4 Frame Partitions	8 d	Fri 27/11/20	Wed 9/12/20	0%
506	L4 Frame Ceilings	8 d	Sat 12/12/20	Mon 21/12/20	0%
507	L4 Sheet, Set & Sand Partitions	8 d	Tue 12/01/21	Wed 20/01/21	0%
508	L4 Sheet , Set & Sand Ceilings	8 d	Wed 27/01/21	Thu 4/02/21	0%
509	L4 Membrane and Tiling	10 d	Mon 8/02/21	Thu 18/02/21	0%
510	L4 Door Hardware	5 d	Fri 19/02/21	Wed 24/02/21	0%
511	L4 Joinery	5 d	Wed 3/03/21	Mon 8/03/21	0%
512	L4 Floor Finishes	5 d	Mon 15/03/21	Fri 19/03/21	0%
513	L4 Paint	5 d	Fri 26/03/21	Wed 31/03/21	0%
514	L4 FFE	3 d	Mon 12/04/21	Wed 14/04/21	0%
515	L4 Clean and Defects	3 d	Fri 16/04/21	Mon 19/04/21	0%
516	L4 Zen Garden and Decking	15 d	Fri 19/02/21	Mon 8/03/21	0%
517	*Residential Building Finishes Complete*	*0 d*	*Mon 19/04/21*	*Mon 19/04/21*	*0%*
518	**FINISHES EDUCATIONAL BUILDING**	**171 d**	**Thu 1/10/20**	**Tue 25/05/21**	**0%**
519	L2 Mark Up Slab	2 d	Thu 1/10/20	Fri 2/10/20	0%
520	L2 Frame Partitions	10 d	Wed 7/10/20	Sat 17/10/20	0%
521	L2 Frame Ceilings	10 d	Mon 19/10/20	Thu 29/10/20	0%
522	L2 Sheet, Set & Sand Partitions	10 d	Sat 14/11/20	Wed 25/11/20	0%
523	L2 Sheet, Set & Sand Ceilings	10 d	Thu 26/11/20	Thu 10/12/20	0%
524	L2 Membrane and Tiling	10 d	Fri 11/12/20	Tue 22/12/20	0%
525	L2 Door Hardware	10 d	Mon 11/01/21	Thu 21/01/21	0%
526	L2 Joinery	10 d	Fri 22/01/21	Fri 5/02/21	0%
527	L2 Floor Finishes	10 d	Sat 6/02/21	Wed 17/02/21	0%
528	L2 Paint	10 d	Thu 18/02/21	Mon 1/03/21	0%
529	L2 FFE	5 d	Tue 2/03/21	Sat 6/03/21	0%
530	L2 Clean and Defects	5 d	Mon 8/03/21	Fri 12/03/21	0%
531	L3 Mark Up Slab	2 d	Wed 2/12/20	Thu 3/12/20	0%
532	L3 Frame Partitions	10 d	Wed 13/01/21	Wed 27/01/21	0%
533	L3 Frame Ceilings	10 d	Thu 28/01/21	Mon 8/02/21	0%
534	L3 Sheet, Set & Sand Partitions	10 d	Sat 20/02/21	Wed 3/03/21	0%
535	L3 Sheet, Set & Sand Ceilings	10 d	Thu 4/03/21	Mon 15/03/21	0%
536	L3 Membrane and Tiling	8 d	Thu 11/03/21	Fri 19/03/21	0%
537	L3 Door Hardware	3 d	Thu 18/03/21	Sat 20/03/21	0%
538	L3 Joinery	5 d	Mon 22/03/21	Fri 26/03/21	0%
539	L3 Floor Finishes	8 d	Sat 27/03/21	Fri 9/04/21	0%
540	L3 Paint	10 d	Sat 10/04/21	Wed 21/04/21	0%
541	L3 FFE	5 d	Thu 22/04/21	Fri 30/04/21	0%
542	L3 Clean and Defects	5 d	Sat 1/05/21	Thu 6/05/21	0%
543	L4 Mark Up Slab	1 d	Fri 11/12/20	Fri 11/12/20	0%
544	L4 Frame Partitions	8 d	Thu 28/01/21	Fri 5/02/21	0%
545	L4 Frame Ceilings	8 d	Sat 6/02/21	Mon 15/02/21	0%

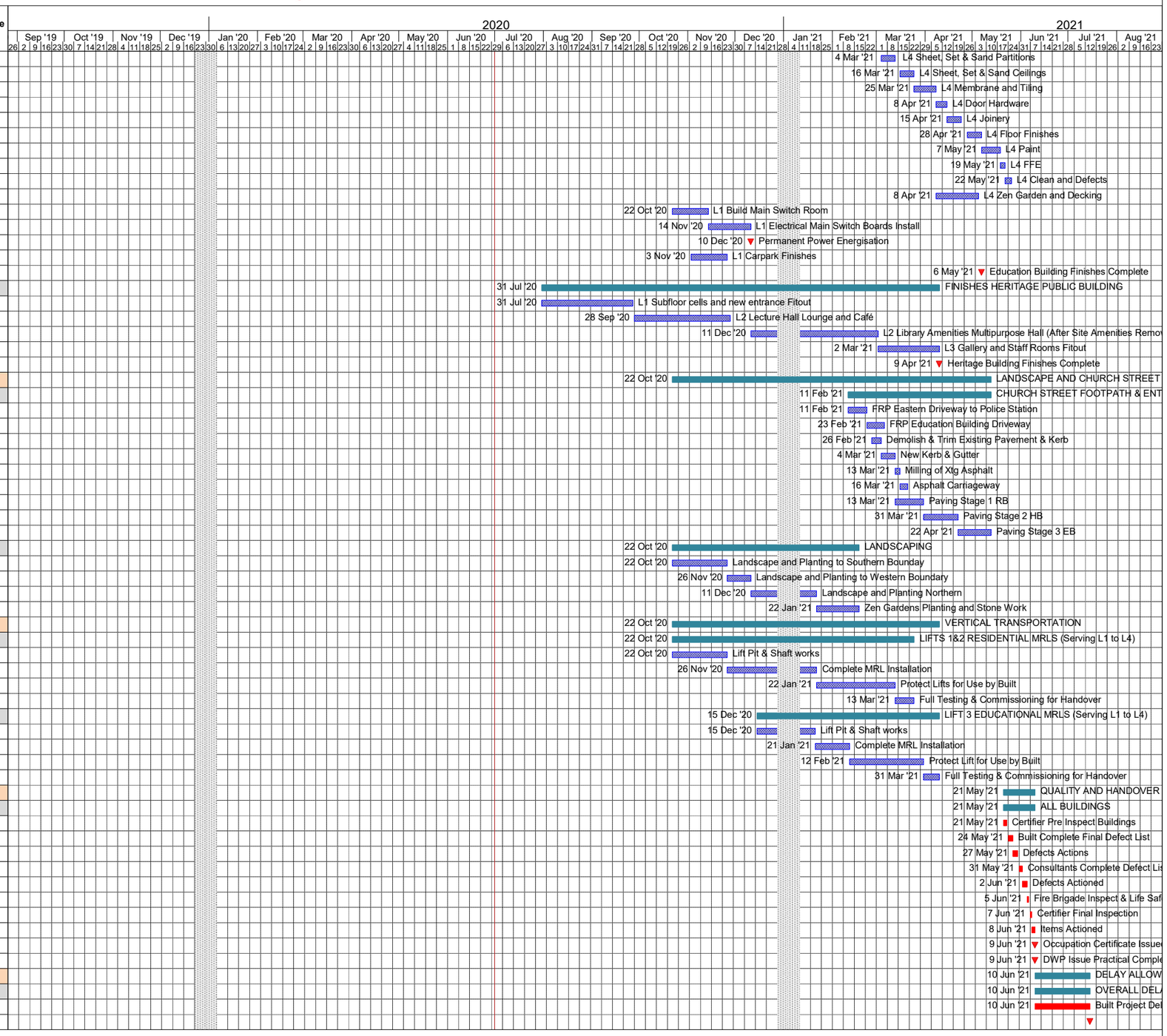


Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
Checked:
Revision : Rev 6 Contract

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

ID	Task Name	Dur	Start	Finish	% Complete
546	L4 Sheet, Set & Sand Partitions	8 d	Thu 4/03/21	Fri 12/03/21	0%
547	L4 Sheet, Set & Sand Ceilings	8 d	Tue 16/03/21	Wed 24/03/21	0%
548	L4 Membrane and Tiling	8 d	Thu 25/03/21	Wed 7/04/21	0%
549	L4 Door Hardware	6 d	Thu 8/04/21	Wed 14/04/21	0%
550	L4 Joinery	8 d	Thu 15/04/21	Fri 23/04/21	0%
551	L4 Floor Finishes	8 d	Wed 28/04/21	Thu 6/05/21	0%
552	L4 Paint	10 d	Fri 7/05/21	Tue 18/05/21	0%
553	L4 FFE	3 d	Wed 19/05/21	Fri 21/05/21	0%
554	L4 Clean and Defects	3 d	Sat 22/05/21	Tue 25/05/21	0%
555	L4 Zen Garden and Decking	20 d	Thu 8/04/21	Tue 4/05/21	0%
556	L1 Build Main Switch Room	20 d	Thu 22/10/20	Fri 13/11/20	0%
557	L1 Electrical Main Switch Boards Install	20 d	Sat 14/11/20	Thu 10/12/20	0%
558	*Permanent Power Energisation*	*0 d*	*Thu 10/12/20*	*Thu 10/12/20*	*0%*
559	L1 Carpark Finishes	20 d	Tue 3/11/20	Wed 25/11/20	0%
560	*Education Building Finishes Complete*	*0 d*	*Thu 6/05/21*	*Thu 6/05/21*	*0%*
561	**FINISHES HERITAGE PUBLIC BUILDING**	**188 d**	**Fri 31/07/20**	**Fri 9/04/21**	**0%**
562	L1 Subfloor cells and new entrance Fitout	50 d	Fri 31/07/20	Sat 26/09/20	0%
563	L2 Lecture Hall Lounge and Café	50 d	Mon 28/09/20	Fri 27/11/20	0%
564	L2 Library Amenities Multipurpose Hall (After Site Amenities Rem	50 d	Fri 11/12/20	Mon 1/03/21	0%
565	L3 Gallery and Staff Rooms Fitout	30 d	Tue 2/03/21	Fri 9/04/21	0%
566	*Heritage Building Finishes Complete*	*0 d*	*Fri 9/04/21*	*Fri 9/04/21*	*0%*
567	**LANDSCAPE AND CHURCH STREET WORKS**	**145 d**	**Thu 22/10/20**	**Wed 12/05/21**	**0%**
568	**CHURCH STREET FOOTPATH & ENTRY WORKS**	**71 d**	**Thu 11/02/21**	**Wed 12/05/21**	**0%**
569	FRP Eastern Driveway to Police Station	10 d	Thu 11/02/21	Mon 22/02/21	0%
570	FRP Education Building Driveway	10 d	Tue 23/02/21	Fri 5/03/21	0%
571	Demolish & Trim Existing Pavement & Kerb	5 d	Fri 26/02/21	Wed 3/03/21	0%
572	New Kerb & Gutter	8 d	Thu 4/03/21	Fri 12/03/21	0%
573	Milling of Xtg Asphalt	2 d	Sat 13/03/21	Mon 15/03/21	0%
574	Asphalt Carriageway	5 d	Tue 16/03/21	Sat 20/03/21	0%
575	Paving Stage 1 RB	15 d	Sat 13/03/21	Tue 30/03/21	0%
576	Paving Stage 2 HB	15 d	Wed 31/03/21	Wed 21/04/21	0%
577	Paving Stage 3 EB	15 d	Thu 22/04/21	Wed 12/05/21	0%
578	**LANDSCAPING**	**80 d**	**Thu 22/10/20**	**Wed 17/02/21**	**0%**
579	Landscape and Planting to Southern Bounday	30 d	Thu 22/10/20	Wed 25/11/20	0%
580	Landscape and Planting to Western Boundary	10 d	Thu 26/11/20	Thu 10/12/20	0%
581	Landscape and Planting Northern	20 d	Fri 11/12/20	Thu 21/01/21	0%
582	Zen Gardens Planting and Stone Work	20 d	Fri 22/01/21	Wed 17/02/21	0%
583	**VERTICAL TRANSPORTATION**	**120 d**	**Thu 22/10/20**	**Fri 9/04/21**	**0%**
584	**LIFTS 1&2 RESIDENTIAL MRLS (Serving L1 to L4)**	**110 d**	**Thu 22/10/20**	**Wed 24/03/21**	**0%**
585	Lift Pit & Shaft works	30 d	Thu 22/10/20	Wed 25/11/20	0%
586	Complete MRL Installation	30 d	Thu 26/11/20	Thu 21/01/21	0%
587	Protect Lifts for Use by Built	40 d	Fri 22/01/21	Fri 12/03/21	0%
588	Full Testing & Commissioning for Handover	10 d	Sat 13/03/21	Wed 24/03/21	0%
589	**LIFT 3 EDUCATIONAL MRLS (Serving L1 to L4)**	**77 d**	**Tue 15/12/20**	**Fri 9/04/21**	**0%**
590	Lift Pit & Shaft works	16 d	Tue 15/12/20	Wed 20/01/21	0%
591	Complete MRL Installation	16 d	Thu 21/01/21	Thu 11/02/21	0%
592	Protect Lift for Use by Built	40 d	Fri 12/02/21	Tue 30/03/21	0%
593	Full Testing & Commissioning for Handover	5 d	Wed 31/03/21	Fri 9/04/21	0%
594	**QUALITY AND HANDOVER PLANNING**	**17 d**	**Fri 21/05/21**	**Wed 9/06/21**	**0%**
595	**ALL BUILDINGS**	**17 d**	**Fri 21/05/21**	**Wed 9/06/21**	**0%**
596	Certifier Pre Inspect Buildings	2 d	Fri 21/05/21	Sat 22/05/21	0%
597	Built Complete Final Defect List	3 d	Mon 24/05/21	Wed 26/05/21	0%
598	Defects Actions	3 d	Thu 27/05/21	Sat 29/05/21	0%
599	Consultants Complete Defect List	2 d	Mon 31/05/21	Tue 1/06/21	0%
600	Defects Actioned	3 d	Wed 2/06/21	Fri 4/06/21	0%
601	Fire Brigade Inspect & Life Safety Measures In Place	1 d	Sat 5/06/21	Sat 5/06/21	0%
602	Certifier Final Inspection	1 d	Mon 7/06/21	Mon 7/06/21	0%
603	Items Actioned	2 d	Tue 8/06/21	Wed 9/06/21	0%
604	*Occupation Certificate Issued*	*0 d*	*Wed 9/06/21*	*Wed 9/06/21*	*0%*
605	*DWP Issue Practical Completion*	*0 d*	*Wed 9/06/21*	*Wed 9/06/21*	*0%*
606	**DELAY ALLOWANCE**	**27 d**	**Thu 10/06/21**	**Wed 14/07/21**	**0%**
607	**OVERALL DELAY ALLOWANCE**	**27 d**	**Thu 10/06/21**	**Wed 14/07/21**	**0%**
608	Built Project Delay Allowance	27 d	Thu 10/06/21	Wed 14/07/21	0%
609	*Built Project Complete*	*0 d*	*Wed 14/07/21*	*Wed 14/07/21*	*0%*



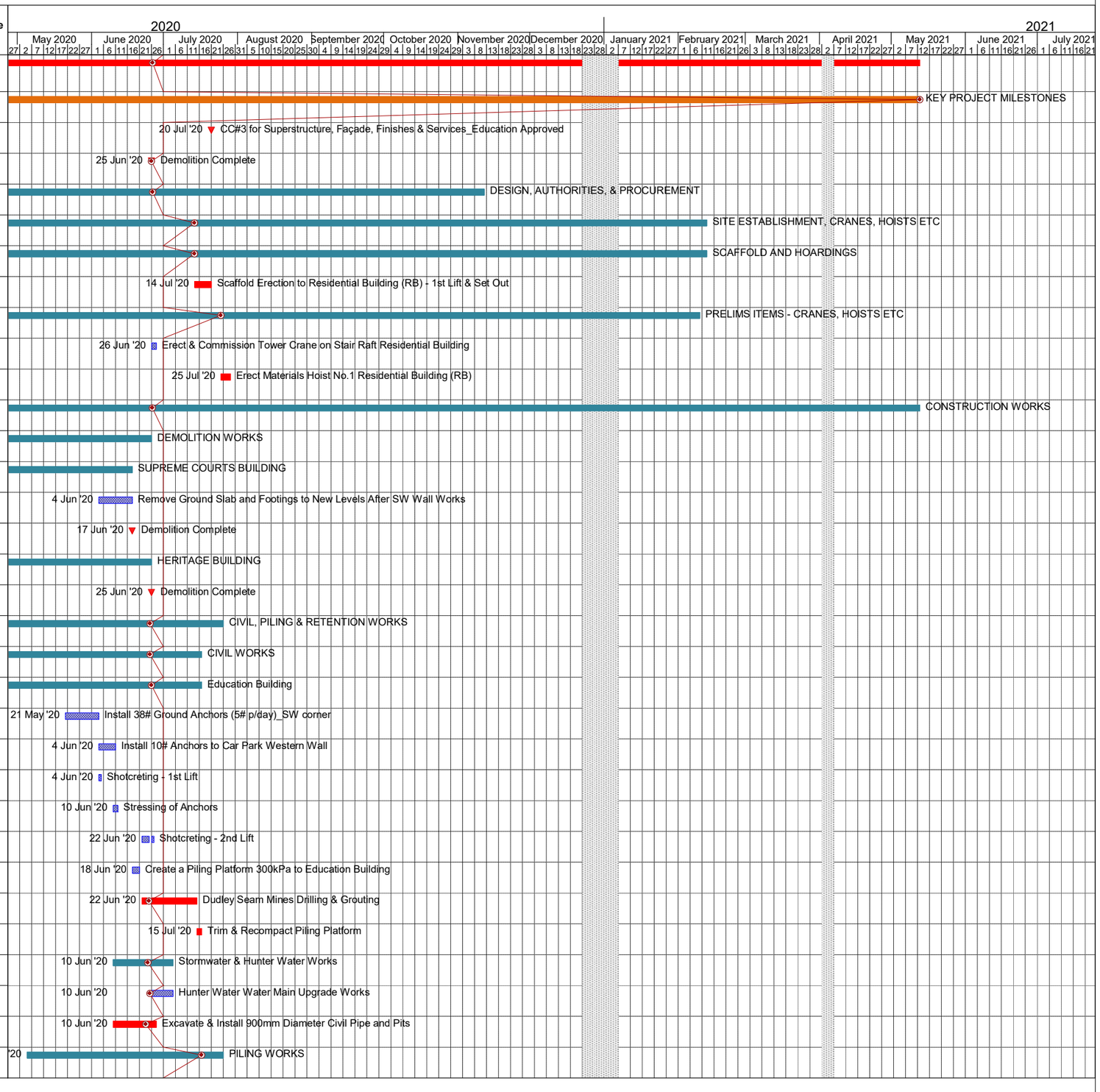
Critical Task | Non-critical | Milestone | Project Summary | Summary

Appendix E – Four Week Programme

Prepared By: RMc
Checked:
Revision : Rev 5 Target

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Construction Programme

ID	Task Name	Dur	Start	Finish	% Complete
0	**NIHON UNIVERSITY NEWCASTLE NSW AUSTRALIA**	**451 d**	**Wed 18/09/19**	**Wed 12/05/21**	**44%**
1	**KEY PROJECT MILESTONES**	**421 d**	**Mon 21/10/19**	**Wed 12/05/21**	**99%**
11	*CC#3 for Superstructure, Façade, Finishes & Services_Education Appro*	*0 d*	*Mon 20/07/20*	*Mon 20/07/20*	*0%*
14	*Demolition Complete*	*0 d*	*Thu 25/06/20*	*Thu 25/06/20*	*0%*
31	**DESIGN, AUTHORITIES, & PROCUREMENT**	**299 d**	**Mon 21/10/19**	**Wed 11/11/20**	**84%**
188	**SITE ESTABLISHMENT, CRANES, HOISTS ETC**	**349 d**	**Tue 29/10/19**	**Fri 12/02/21**	**66%**
200	**SCAFFOLD AND HOARDINGS**	**296 d**	**Tue 21/01/20**	**Fri 12/02/21**	**34%**
206	Scaffold Erection to Residential Building (RB) - 1st Lift & Set Out	6 d	Tue 14/07/20	Mon 20/07/20	0%
211	**PRELIMS ITEMS - CRANES, HOISTS ETC**	**229 d**	**Wed 8/04/20**	**Tue 9/02/21**	**50%**
213	Erect & Commission Tower Crane on Stair Raft Residential Building	2 d	Fri 26/06/20	Sat 27/06/20	100%
215	Erect Materials Hoist No.1 Residential Building (RB)	3 d	Sat 25/07/20	Tue 28/07/20	0%
219	**CONSTRUCTION WORKS**	**380 d**	**Tue 17/12/19**	**Wed 12/05/21**	**15%**
221	**DEMOLITION WORKS**	**122 d**	**Tue 21/01/20**	**Thu 25/06/20**	**100%**
230	**SUPREME COURTS BUILDING**	**111 d**	**Wed 29/01/20**	**Wed 17/06/20**	**100%**
237	Remove Ground Slab and Footings to New Levels After SW Wall	8 d	Thu 4/06/20	Wed 17/06/20	100%
238	*Demolition Complete*	*0 d*	*Wed 17/06/20*	*Wed 17/06/20*	*100%*
239	**HERITAGE BUILDING**	**75 d**	**Thu 19/03/20**	**Thu 25/06/20**	**100%**
244	*Demolition Complete*	*0 d*	*Thu 25/06/20*	*Thu 25/06/20*	*100%*
245	**CIVIL, PILING & RETENTION WORKS**	**110 d**	**Mon 9/03/20**	**Sat 25/07/20**	**75%**
246	**CIVIL WORKS**	**102 d**	**Mon 9/03/20**	**Thu 16/07/20**	**81%**
252	**Education Building**	**73 d**	**Thu 16/04/20**	**Thu 16/07/20**	**72%**
256	Install 38# Ground Anchors (5# p/day)_SW corner	12 d	Thu 21/05/20	Wed 3/06/20	100%
257	Install 10# Anchors to Car Park Western Wall	2 d	Thu 4/06/20	Wed 10/06/20	100%
258	Shotcreting - 1st Lift	1 d	Thu 4/06/20	Thu 4/06/20	100%
259	Stressing of Anchors	2 d	Wed 10/06/20	Thu 11/06/20	100%
260	Shotcreting - 2nd Lift	5 d	Mon 22/06/20	Fri 26/06/20	100%
261	Create a Piling Platform 300kPa to Education Building	3 d	Thu 18/06/20	Sat 20/06/20	100%
262	Dudley Seam Mines Drilling & Grouting	20 d	Mon 22/06/20	Tue 14/07/20	15%
263	Trim & Recompact Piling Platform	2 d	Wed 15/07/20	Thu 16/07/20	0%
264	**Stormwater & Hunter Water Works**	**22 d**	**Wed 10/06/20**	**Sat 4/07/20**	**66%**
265	Hunter Water Water Main Upgrade Works	22 d	Wed 10/06/20	Sat 4/07/20	60%
266	Excavate & Install 900mm Diameter Civil Pipe and Pits	16 d	Wed 10/06/20	Sat 27/06/20	75%
267	**PILING WORKS**	**67 d**	**Tue 5/05/20**	**Sat 25/07/20**	**67%**

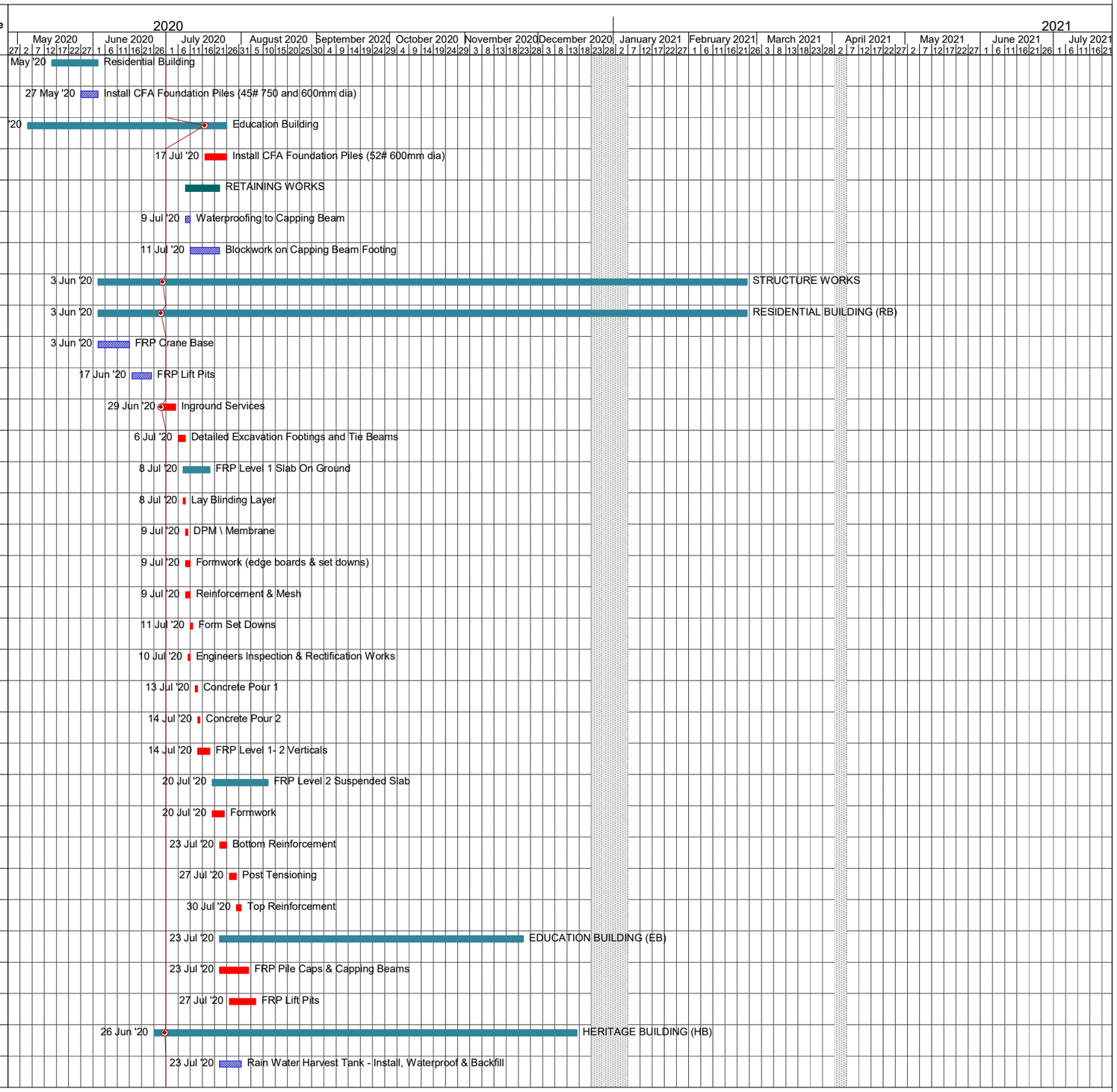


Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
Checked:
Revision : Rev 5 Target

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Construction Programme

ID	Task Name	Dur	Start	Finish	% Complete
268	**Residential Building**	**16 d**	**Fri 15/05/20**	**Tue 2/06/20**	**100%**
270	Install CFA Foundation Piles (45# 750 and 600mm dia)	6 d	Wed 27/05/20	Tue 2/06/20	100%
271	**Education Building**	**67 d**	**Tue 5/05/20**	**Sat 25/07/20**	**43%**
273	Install CFA Foundation Piles (52# 600mm dia)	8 d	Fri 17/07/20	Sat 25/07/20	0%
274	**RETAINING WORKS**	**12 d**	**Thu 9/07/20**	**Wed 22/07/20**	**0%**
275	Waterproofing to Capping Beam	2 d	Thu 9/07/20	Fri 10/07/20	0%
276	Blockwork on Capping Beam Footing	10 d	Sat 11/07/20	Wed 22/07/20	0%
277	**STRUCTURE WORKS**	**200 d**	**Wed 3/06/20**	**Wed 24/02/21**	**5%**
278	**RESIDENTIAL BUILDING (RB)**	**200 d**	**Wed 3/06/20**	**Wed 24/02/21**	**9%**
279	FRP Crane Base	7 d	Wed 3/06/20	Mon 15/06/20	100%
280	FRP Lift Pits	7 d	Wed 17/06/20	Wed 24/06/20	100%
281	Inground Services	6 d	Mon 29/06/20	Sat 4/07/20	0%
282	Detailed Excavation Footings and Tie Beams	3 d	Mon 6/07/20	Wed 8/07/20	0%
283	**FRP Level 1 Slab On Ground**	**10 d**	**Wed 8/07/20**	**Sat 18/07/20**	**0%**
284	Lay Blinding Layer	1 d	Wed 8/07/20	Wed 8/07/20	0%
285	DPM \ Membrane	1 d	Thu 9/07/20	Thu 9/07/20	0%
286	Formwork (edge boards & set downs)	2 d	Thu 9/07/20	Fri 10/07/20	0%
287	Reinforcement & Mesh	2 d	Thu 9/07/20	Fri 10/07/20	0%
288	Form Set Downs	1 d	Sat 11/07/20	Sat 11/07/20	0%
289	Engineers Inspection & Rectification Works	1 d	Fri 10/07/20	Fri 10/07/20	0%
290	Concrete Pour 1	1 d	Mon 13/07/20	Mon 13/07/20	0%
291	Concrete Pour 2	1 d	Tue 14/07/20	Tue 14/07/20	0%
292	FRP Level 1- 2 Verticals	5 d	Tue 14/07/20	Sat 18/07/20	0%
293	**FRP Level 2 Suspended Slab**	**20 d**	**Mon 20/07/20**	**Tue 11/08/20**	**0%**
294	Formwork	5 d	Mon 20/07/20	Fri 24/07/20	0%
295	Bottom Reinforcement	3 d	Thu 23/07/20	Sat 25/07/20	0%
296	Post Tensioning	3 d	Mon 27/07/20	Wed 29/07/20	0%
297	Top Reinforcement	2 d	Thu 30/07/20	Fri 31/07/20	0%
338	**EDUCATION BUILDING (EB)**	**104 d**	**Thu 23/07/20**	**Tue 24/11/20**	**0%**
339	FRP Pile Caps & Capping Beams	10 d	Thu 23/07/20	Mon 3/08/20	0%
340	FRP Lift Pits	10 d	Mon 27/07/20	Thu 6/08/20	0%
397	**HERITAGE BUILDING (HB)**	**143 d**	**Fri 26/06/20**	**Wed 16/12/20**	**4%**
398	Rain Water Harvest Tank - Install, Waterproof & Backfill	8 d	Thu 23/07/20	Fri 31/07/20	0%

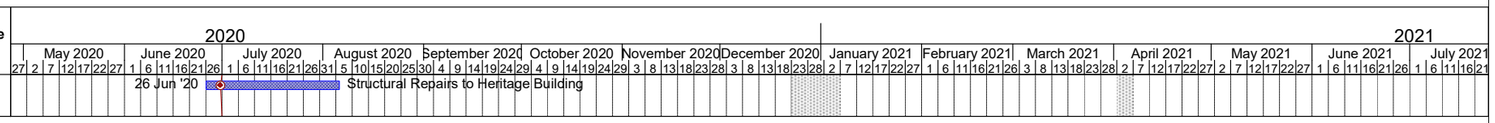


Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
Checked:
Revision : Rev 5 Target

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Construction Programme

ID	Task Name	Dur	Start	Finish	% Complete
401	Structural Repairs to Heritage Building	35 d	Fri 26/06/20	Wed 5/08/20	10%



Critical Task | Non-critical | Milestone | Project Summary | Summary

Appendix F – Green Star Pathway Status

Green Star - Design & As Built Scorecard v 1.2

4 Star Pathway

Date:	Thursday, 18 June 2020
Targeted Rating:	4 Star - Best Practice
PROJECT:	Nihon University

Points Available			4 Star Pathway	Design Achieved	As-Built Points
97			53.5	46.5	22.4

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	Available	Target 4 Star	Design	As-Built	Support Documentation Received	Dated Provided	Status	Dated Approved	Comment
Management								Y/N				
Green Star Accredited Professional	To recognise the appointment and active involvement of a Green Star Accredited Professional in order to ensure that the rating tool is applied effectively and as intended.	1.0	Accredited Professional	1	1	1	1	YES	02.04.20	APPROVED	02.04.20	Completed- No further action required
Commissioning and Tuning	To encourage and recognise commissioning, handover and tuning initiatives that ensure all building services operate to their full potential.	2.0	Environmental Performance Targets	-	Complies	0	Complies					
		2.1	Services and Maintainability Review	1	1	1		YES	21.04.20	APPROVED - Review meetings to be scheduled ASAP	23.04.2020	
Building Information	To recognise the development and provision of building information that facilitates understanding of a building's systems, operation and maintenance requirements, and environmental targets to enable optimised performance.	4.1	Building Information	1	1	1		YES	21.04.20	APPROVED	24.04.20	All services trades to provide O&Ms in accordance with greenstar requirement
Responsible Construction Practices	To reward projects that use best practice formal environmental management procedures during construction.	7.0	Environmental Management Plan	-	Complies	0	0	YES	02.04.20	APPROVED	02.04.20	
		7.1	Formalised Environmental Management System	1	1	1	1	YES	02.04.20	APPROVED	02.04.20	
		7.2	High Quality Staff Support	1	1	1		YES	06.05.20	APPROVED	08.05.20	
Operational Waste	Prescriptive pathway	8B	Prescriptive Pathway - Facilities	1	1	1	1	YES	06.04.20	APPROVED	07.04.20	No further action
Indoor Environment Quality												
		9.1	Ventilation System Attributes	1	0							
		9.2	Ventilation Rates	1	0							
Indoor Air Quality	To recognise projects that provide high air quality to occupants.	9.3	Exhaust or Elimination of Pollutants	1	1	1		YES	06.04.20	APPROVED	07.04.20	
Lighting Comfort	To encourage and recognise well-lit spaces that provide a high degree of comfort to users.	11.0	Minimum Lighting Comfort	-	complies	0		YES	03.04.20	APPROVED	07.04.20	
		11.1	General Illuminance and Glare Reduction	1	1	1		YES	21.04.20	APPROVED	05.05.20	
		11.3	Localised Lighting Control	1	1	1		YES	03.04.20	APPROVED	07.04.20	
Visual Comfort	To recognise the delivery of well-lit spaces that provide high levels of visual comfort to building occupants.	12.0	Glare Reduction	-	complies	0		YES	21.04.20	APPROVED	08.05.20	
		12.2	Views	1	1	1	1	YES	14.04.20	APPROVED	15.04.20	No further action required
Indoor Pollutants	To recognise projects that safeguard occupant health through the reduction in internal air pollutant levels.	13.1	Paints, Adhesives, Sealants and Carpets	1	1	1		YES	21.04.20	APPROVED - Some items on finishes schedule do not meet Greenstar requiremets - they have been identified and we are working towards obtaining information or alternatives to ensure compliance - Porters Paint for sealer to be	24.04.20	
		13.2	Engineered Wood Products	1	1					Issues with this credit - currently reviewing product verification data sheets		
Energy												
Greenhouse Gas Emissions	Modelled Performance Pathway	15E.0	Conditional Requirement: Reference Building Pathway	-	complies	0	0	YES	03.04.20	APPROVED	07.04.20	
		15E.1	Comparison to a Reference Building Pathway	20	5.5	5.5	5.4	YES	03.04.20	APPROVED	07.04.20	No further action required unless finished changed
Peak Electricity Demand Reduction	Performance Pathway	16B	Performance Pathway - Reference Building	2	2	2	2	YES	03.04.20	APPROVED	07.04.20	No further action required unless finished changed
Transport												
Sustainable Transport	Performance Pathway	17B	Prescriptive Pathway - Facilities	7	7	7	7	YES	03.06.2020	Resubmitted for review		
Water												
Potable Water	Performance Pathway	18B	Potable Water - Prescriptive Pathway	12	6	6		YES	03.04.20	Further documentation provided - Updated FFE schedule provided. Wels Certification for some item. Washing Machine information - obtaining Wels Certificate	15.04.20	Proof of installation of fittings supplied.
Materials												
Life Cycle Impacts	Prescriptive Pathway - Life Cycle Impacts	19B.1	Life Cycle Impacts- Concrete	3	2	2		YES	21.04.20	APPROVED	24.04.20	Concrete mix breakdowns required and tracking of mix contents
		19B.2	Life Cycle Impacts- Steel	2	1	1	0		09.06.2020	Built to re-submit, confident credit will be achieved		
		19B.3	Life Cycle Impacts- Building Re-Use	2	1	1	1		09.06.2020	APPROVED		
		20.1	Structural and Reinforcing Steel	1	1	1		YES	05.05.20	APPROVED - Notes to be updated in specification to ensure 60% compliance	08.05.20	

Green Star - Design & As Built Scorecard v 1.2

4 Star Pathway

Date:	Thursday, 18 June 2020
Targeted Rating:	4 Star - Best Practice
PROJECT:	Nihon University

Points Available			4 Star Pathway	Design Achieved	As-Built Points
97			53.5	46.5	22.4

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	Available	Target 4 Star	Design	As-Built	Support Documentation Received	Dated Provided	Status	Dated Approved	Comment
Responsible Building Materials	To reward projects that include materials that are responsibly sourced or have a sustainable supply chain.	20.3	Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	1	1		YES	14.04.20	APPROVED	15.04.20	
		21.1	Product Transparency and Sustainability	3	2	2		YES	04.05.20	APPROVED	08.05.20	
		22B	Percentage Benchmark	1	1	1		YES	21.04.20	APPROVED	08.05.20	
Land Use & Ecology												
Ecological Value	To reward projects that improve the ecological value of their site.	23.0	Endangered, Threatened or Vulnerable Species	-	complies	0	0	YES	06.04.20	APPROVED	07.04.20	Completed - No further action required
Sustainable Sites	To reward projects that choose to develop sites that have limited ecological value, re-use previously developed land and remediate contaminate land.	24.0	Conditional Requirement	-	Complies	0	0	YES	21.04.20	APPROVED	24.04.20	Completed
		24.1	Reuse of Land	1	1	1	1	YES	21.04.20	APPROVED	24.04.20	Completed - No further action required
		24.2	Contamination and Hazardous Materials	1	1	1	0	YES	21.04.20	APPROVED	24.04.20	Auditor reports and documentation required at completion
Emissions												
Stormwater	To reward projects that minimise peak stormwater flows and reduce pollutants entering public sewer infrastructure.	26.1	Reduced Peak Discharge	1	1	1	1	YES	06.05.20	APPROVED	08.05.20	Completed - Music model submitted
		~~26.2~~	~~Reduced Pollution Targets~~	~~1~~	~~1~~	~~0~~	~~0~~			~~Cardno advised this won't be achievable~~		~~No longer pursuing credit~~
Light Pollution	To reward projects that minimise light pollution.	~~27.0~~	~~Light Pollution to Neighbouring Bodies~~	~~-~~	~~Complies~~	~~0~~	~~0~~			~~Erea / Northrop - Issues design not meeting target~~		~~No longer pursuing credit~~
		~~B~~	~~Light Pollution to Night Sky~~	~~1~~	~~1~~	~~0~~	~~0~~			~~Erea / Northrop - Issues design not meeting target~~		~~No longer pursuing credit~~
Microbial Control	To recognise projects that implement systems to minimise the impacts associated with harmful microbes in building systems.	28.0	Legionella Impacts from Cooling Systems	1	1	1		YES	03.04.20	APPROVED	07.04.20	Mechanical Contractor to provide
Innovation												
Financial Transparency (D)		Innovation	Providing anonymous design and construction cost data to the GBCA confidentially.	1	1	1		YES	21.04.2020	APPROVED	24.04.20	
Sustainable Transport		Innovation	No new carparks on site	1	1	1	1	YES	07.04.20	APPROVED	23.04.20	No further acti
~~Stormwater Pollution Targets (-C)~~		~~Innovation~~	~~Exceeding the Stormwater targets~~	~~2~~	~~1~~	~~0~~	~~0~~			~~Cardno~~		~~No longer targetting credit~~
Culture, Identity and Heritage		Innovation	To encourage the use, interpretation and celebration of buildings with cultural heritage	1	1	1		YES	24.04.20	APPROVED	01.05.20	Architect / Built to provide at completion
Beauty		Innovation	Requires narrative to be put together by Architect	1	1	0				Information provide Built to finalise submission		
Reconciliation Action Plan												
Total				10	6							

TOTALS	AVAILABLE	4 Star	Design Phase	As-Built
CORE POINTS	97	47.50		21
INNOVATION POINTS	10	6.00		1.0
TOTAL SCORE TARGETED		53.50		22.4

Design Phase

SUBMITTED	47.5
APPROVED	46.5
INFO REQUIRED	1.0

Green star Credits with issues	1.0
~~Green star Credits no longer targe~~	-3.0
Yet to be submitted	1.0
TOTAL POINTS	49.5

Note: The project is continuing with a future provision PV cells that could be included should there be issues with Green Star targets
Pathway amendment shown in RED
4 Star pathway 45 stars required
Denotes items required for as-built submission at completion

Appendix G – Statused SSD-9787 Conditions Matrix

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
	PART A - ADMINISTRATIVE CONDITIONS										
	Obligation to Minimise Harm to the Environment										
A1	In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasbible measures must be implemented to prevent, and, if prevention is not reasonable and feasible, minimise any material harm to the environment that may result from the construction and operation of the development.	Note	Note		21-Jan-20						Noted
	Terms of Consent										
A2	The development may only be carried out: (a) in compliance with the conditions of this consent; (b) in accordance with all written directions of the Planning Secretary; (c) generally in accordance with the EIS and Response to Submissions; (d) in accordance with the approved plans in the table below:	Note	Note		23-Jan-20						Noted
A3	Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to: (a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; (b) any reports, reviews or audits commissioned by the Planning Secretary regarding compliance with this approval; and (c) the implementation of any actions or measures contained in any such document referred to in (a) above.	Note	Note								Noted
A4	The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.	Note	Note								Noted
	Limits of Consent										
A5	This consent lapses five years after the date of consent unless work is physically commenced.	Note	Note		21-Jan-20						Noted
	Prescribed Conditions										
A6	The Applicant must comply with all relevant prescribed conditions of development consent under Part 6, Division 8A of the EP&A Regulation.	Note	Note		21-Jan-20						Noted
	Planning Secretary as Moderator										
A7	In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the Development, either party may refer the matter to the Planning Secretary for resolution. The Planning Secretary's resolution of the matter must be binding on the parties.	Note	Note								Noted
	Evidence of Consultation										
A8	Where conditions of this consent require consultation with an identified party, the Applicant must: (a) consult with the relevant party prior to submitting the subject document for information or approval; and (b) provide details of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.	Note	Note		21-Jan-20			✓			Noted - will form part of relevant CC submissions as or when required
	Staging										
A9	The project may be constructed and operated in stages. Where staged construction or operation is proposed, a Staging Report (for either or both construction and operation as the case may be) must be prepared and submitted for the information of the Planning Secretary. The Staging Report must be submitted to the Planning Secretary no later than one month before the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one month before the commencement of operation of the first of the proposed stages of operation).	Note	Note		23-Jan-20			✓			Submitted to Planning Secretary with acknowledgment of receipt from DoP 18/02/20 noting no further comment at this time
A10	A Staging Report prepared in accordance with condition A9 must: (a) if staged construction is proposed, set out how the construction of the whole of the project will be staged, including details of work and other activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish; (b) if staged operation is proposed, set out how the operation of the whole of the project will be staged, including details of work and other activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant); (c) specify how compliance with conditions will be achieved across and between each of the stages of the project; and (d) set out mechanisms for managing any cumulative impacts arising from the proposed staging.										Submitted to Planning Secretary - awaiting endorsement
	[i] The Built construction staging triggers this condition - Planning Secretary to be advised		**Note**	**dwp**	31-Jan-20						
	[ii] Nihon is not planning a staged operation - no action required - no staging documentation to be forwarded to the Planning Sectretary	**Note**		**dwp**	31-Jan-20						
A11	Where staging is proposed, the project must be staged in accordance with the Staging Report, as submitted to the Planning Secretary.	Note	Note								Noted
A12	Where staging is proposed, the terms of this approval that apply or are relevant to the works or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.	Note	Note								Noted
	Staging, Combining and Updating Strategies, Plans or Programs										
A13	With the approval of the Planning Secretary, the Applicant may: (a) prepare and submit any strategy, plan (including management plan, architectural or design plan) or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan (including management plan, architectural or design plan) or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan (including management plan, architectural or design plan) or program); (b) combine any strategy, plan (including management plan, architectural or design plan), or program required by this consent (if a clear relationship is demonstrated between the strategies, plans (including management plan, architectural or design plan) or programs that are proposed to be combined); and (c) update any strategy, plan (including management plan, architectural or design plan), or program required by this consent (to ensure the strategies, plans (including management plan, architectural or design plan), or programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).	Note	Note					✓			Submitted to Planning Secretary - awaiting endorsement
A14	If the Planning Secretary agrees, a strategy, plan (including management plan, architectural or design plan), or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.	Note	Note								Noted
A15	If approved by the Planning Secretary, updated strategies, plans (including management plan, architectural or design plan), or programs supersede the previous versions of them and must be implemented in accordance with the condition that requires the strategy, plan, program or drawing.	Note	Note								Noted
	Structural Adequacy										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
A16	All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA and any additional requirements of the Subsidence Advisory NSW where the building or structure is located on land within a declared Mine Subsidence District. Notes: • Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. • Under section 21 of the Coal Mine Subsidence Compensation Act 2017, the Applicant is required to obtain the Chief Executive of Subsidence Advisory NSW's approval before carrying out certain development in a Mine Subsidence District.							✓	✓		Refer Cardno and Northrop certifications and updated drawings of 15/04/20 and 16/04/20
	[i] Structural adequacy of new buildings engineering certification required to the Certifier		**Built**	**Northrop**							
	[ii] Structural adequacy of existing courthouse - certification required for earthquake strengthening + termite repairs - passed to the Certifier	**Nihon**		**Cardno | dwp**							
	External Walls and Cladding										
A17	The external walls of all buildings including additions to existing buildings must comply with the relevant requirements of the BCA.								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Design certification of external walls including insulation		**Built**	**dwp | Northrop**							
	Site Contamination										
A18	Following the completion of demolition works and prior to the commencement of all other construction, additional site investigations of previously untested or inaccessible areas of the site must be undertaken in accordance with: (a) interim advice dated12 November 2019 and prepared by NSW EPA Accredited Site Auditor Ian Gregson, Principal Environmental Consultant, GHD; (b) the recommendations provided in the Phase 1 Environmental Site Assessment – Technical Note dated 29 April 2019 and prepared by Cardno; (c) NSW EPA Sampling Design Guidelines; (d) Guidelines for the NSW Site Auditor Scheme (3rd edition) 2017 https://www.epa.nsw.gov.au/publications/contaminatedland/17p0269-guidelines-for- thensw-site-auditor-scheme-third-edition; (e) Guidelines for Consultants Reporting on Contaminated Sites, 2011 www.epa.nsw.gov.au/resources/clm/20110650consultantsglines.pdf; (f) The National Environment Protection (assessment of contamination) Measures 2013 as amended; and (g) testing must include assessment of both the soil and groundwater profile.							✓			Noted - Douglas have completed testing for both the new residential building and the new education building (March '20) and included within the amended and final RAP - issued to the PCA 31/03/20
	[i] Additional site testing and reporting to be undertaken once demolition completed		**Built**	**Douglas Partners**							
	[ii] Reviewing and advice on test methods	**Nihon**		**GHD | dwp**							
A19	The additional site investigations report must be reviewed by a NSW EPA Accredited Site Auditor and the Conceptual Remediation Action Plan dated 28 May 2019, prepared by Cardno must be updated to reflect the findings of the additional site investigations required by condition A18. The updated remediation action plan must be approved by a NSW EPA Accredited Site Auditor and submitted to the Planning Secretary prior to the commencement of remediation works.								✓		Approved RAP & DSI submitted to DPIE by dwp on 28/04/2020
	[i] Remedial Action Plan required to be updated and to be submitted to site auditor		**Built**	**Douglas Partners**							
	[ii] Updated report to be reviewed and approved and forwarded to EPA + planning secretary	**Nihon**		**GHD | dwp**							
A20	Remediation works approved as part of this development consent must be carried out in accordance with the remediation action plan approved by a NSW EPA Accredited Site Auditor pursuant to condition A19.										Noted
	[i] Remedial works to be carried out in accordance with the approved RAP - certification required		**Built**	**Douglas Partners**							
	[ii] Review of completed remedial works documentation	**Nihon**		**GHD | dwp**							
	Applicability of Guidelines										
A21	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.	Note	Note								Noted
A22	Consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	Note	Note								Noted
	Monitoring and Environmental Audits										
A23	Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, noncompliance notification, Site audit report and independent auditing. Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.	Note	Note		21-Jan-20						Noted
	Access to Information										
A24	At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Planning Secretary, the Applicant must: (a) make the following information and documents (as they are obtained or approved) publicly available on its website: (i) the documents referred to in condition A2 of this consent; (ii) all current statutory approvals for the development; (iii) all approved strategies, plans and programs required under the conditions of this consent; (iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent; (v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; (vi) a summary of the current stage and progress of the development; (vii) contact details to enquire about the development or to make a complaint; (viii) a complaints register, updated monthly; (ix) audit reports prepared as part of any independent audit of the development and the Applicant's response to the recommendations in any audit report; (x) any other matter required by the Planning Secretary; and (b) keep such information up to date, to the satisfaction of the Planning Secretary.				23-Jan-20			✓			Closed out
	[i] Information required from contractor to be supplied throughout the construction phase - information website to be displayed on site		**Built**								
	[ii] Web site to be established and maintained with current documents - updated with construction inputs - before the commencement of construction	**Nihon**		**Azusa | dwp**							

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
	Compliance										
A25	The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Note	Note		21-Jan-20						Noted - to be provided to all consultants and subcontractors
	Incident Notification, Reporting and Response										
A26	The Planning Secretary must be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.	Note	Note								
A27	Subsequent notification must be given and reports submitted in accordance with the requirements set out in **Appendix 2.**	Note	Note								Noted
	Non-Compliance Notification										
A28	The Planning Secretary must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The Certifying Authority must also notify the Planning Secretary in writing to compliance@planning.nsw.gov.au within seven days after they identify any non-compliance.	Note	Note								Noted - dwp \ Built to communicate and co-ordinate any non compliances
A29	The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	Note	Note								Noted
A30	A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	Note	Note								
	Revision Strategies, Plans and Programs										
A31	Within three months of: (a) the submission of a compliance report under condition C22; (b) the submission of an incident report under condition A27; (c) the submission of an Independent Audit under condition C32; (d) the approval of any modification of the conditions of this consent; or (e) the issue of a direction of the Planning Secretary under condition A2 which requires a review, the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary and the Certifier must be notified in writing that a review is being carried out. If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans, programs or drawings required under this consent must be revised, to the satisfaction of the Planning Secretary and/or Certifier (where relevant). Where revisions are required, the revised document must be submitted to the Planning Secretary and/or Certifier for approval and/or information (where relevant) within six weeks of the review. Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.										Noted
	[i] Review and report strategy to be put in place		**Built**								
	[ii] Review and report strategy to be put in place	**Nihon**		**Azusa | dwp**							
	PART B - PRIOR TO ISSUE OF CONSTRUCTION CERTIFICATE										
	Certified Drawings										
B1	Prior to the issue of the relevant Construction Certificate, the Applicant must submit to the satisfaction of the Certifier structural drawings prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with this development consent.							✓	✓		Closed out for CC#1 & CC#2
	[i] Structural certification of compliance of new buildings - issued to the Certifier		**Built**	**Northrop**							
	[ii] Structural certification of compliance of existing courthouse building - issued to the Certifier	**Nihon**		**Cardno**							
	Development Contributions										
B2	Prior to the issue of any Construction Certificate (not including demolition or site remediation works), a Section 7.12 levy totalling **$288,992**, is to be paid to Council in accordance with Section 7.12 of the EP&A Act and City of Newcastle Section 7.12 Newcastle Local Infrastructure Contributions Plan 2019. Prior to payment Council can provide the value of the indexed levy.							✓			Closed out - Required for CC#1
	[i] Developer contribution to be paid prior to commencement of construction	**Nihon**		**Azusa | dwp**							
	External Walls and Cladding										
B3	Prior to the issue of any Construction Certificate, the Applicant must provide the Certifier with documented evidence that the products and systems proposed for use or used in the construction of external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the requirements of the BCA. The Applicant must provide a copy of the documentation given to the Certifier to the Planning Secretary within seven days after the Certifier accepts it.								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Documented evidence to the Certifier and a copy to the Planning Secretary required	**Nihon**		**dwp | Azusa**							
	Protection of Public Infrastructure										
B4	Prior to the issue of the relevant Construction Certificate, the Applicant must: (a) consult with the relevant owner and provider of services that are likely to be affected by the development to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure; (b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and (c) submit a copy of the dilapidation report to the Planning Secretary, Certifier and Council.				23-Jan-20			✓	✓	✓	Closed-out
	[i] Communications strategies and dilapidation survey to be undertaken - copy of dilapidation report to Certifier + Council		**Built**		**21-Jan-20**						
	[ii] Copy of dilapidation report forwarded to Planning Secretary	**Nihon**		**dwp**	**21-Jan-20**						
	Pre-Construction Dilapidation Report										
B5	Prior to the issue of the relevant Construction Certificate, the Applicant must submit a pre- commencement dilapidation report to Council, NSW Heritage Division and the Certifier. The report must provide an accurate record of the existing condition of adjoining private properties, heritage items and Council assets that are likely to be impacted by the proposed works.				23-Jan-20			✓	✓	✓	Closed out
	[i] Dilapidation survey to be undertaken - copy of dilapidation report to Certifier + Council		**Built**		**21-Jan-20**						
	[ii] Copy of dilapidation report forwarded to Planning Secretary	**Nihon**		**dwp**	**21-Jan-20**						
	Ecologically Sustainable Development										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
B6	Prior to the issue of any Construction Certificate, unless otherwise agreed by the Planning Secretary, the Applicant must demonstrate that ESD is being achieved by either: (a) registering for a minimum 4 star Green Star rating with the Green Building Council Australia and submit evidence of registration to the Certifier; or (b) seeking approval from the Planning Secretary for an alternative certification process.				23-Jan-20			✓	✓		Planning Secretary endorsement received 10/02/20. PCA requires certification from designers that the pathway has been included in their design and achieved.
	[i] Management of the green star process - assistance with alternative certification process		**Built**	**dwp|Northrop**							
	[ii] Resolution of alternative certification process - notification to Planning Secretary for approval	**Nihon**		**Azusa | dwp**	**17-Jan-20**						
	Operational Waste Storage and Processing										
B7	Prior to the issue of the relevant Construction Certificate, the Applicant must obtain agreement from Council for the design of the operational waste storage area (where waste removal will be undertaken by Council). Where waste removal will be undertaken by a third party, the design of the operational waste storage area must be in accordance with Council's standards. Evidence of the design and Council endorsement (where relevant) must be provided to the Certifier.								✓		Closed out by dwp Aconex of 6/04/20 ref: dwp AU-GCOR-000296 and dwp design statement 01 dated 16/04/20
	[i] DA approved stormwater drawings to be fowarded to Certifier		**Built**	**dwp|Northrop**							
	[ii] Evidence of design and Council endorsement of operational waste storage and processing to be submitted to Certifier	**Nihon**		**Azusa | dwp**							
	Rainwater Harvesting										
B8	Prior to the issue of the relevant Construction Certificate, the Applicant must ensure that a rainwater reuse/harvesting system for the development is developed for the site. A rainwater re- use plan must be prepared and certified by an experienced hydraulic engineer.								✓		Closed out - Submitted as part of CC#2 documentation
	[i] Rainwater reuse has been designed installation to be finalised + provided to the Certifier		**Built**	**Cardno | Northrop**							
	Operational Car Parking and Service Vehicle Layout										
B9	Prior to the issue of the relevant Construction Certificate, compliance with the following requirements must be submitted to the satisfaction of the Certifier: (a) all vehicles must enter and leave the Site in a forward direction; (b) a minimum of 20 on-site car parking spaces for use during operation of the development and designed in accordance with the latest versions of AS 2890.1 and AS 2890.6; (c) the swept path of the longest construction vehicle entering and exiting the Site in association with the new work, as well as manoeuvrability through the Site, must be in accordance with the latest version of AS 2890.2; (d) the safety of vehicles and pedestrians accessing adjoining properties, where shared vehicle and pedestrian access occurs, is to be addressed; and (e) traffic management devices in the form of 'Stop' and 'Give Way to Pedestrian' signs and line marking must be installed at the entry of proposed driveways within the site and constructed in accordance with AS 2890.1:2004: Parking facilities 0 Off-street car parking.								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Final car parking and service layouts to be design certified + provided to the Certifier		**Built**	**dwp | Northrop**							
	Bicycle Parking and End of Trip Facilities										
B10	Prior to the issue of the relevant Construction Certificate, compliance with the following requirements for secure bicycle parking and end-of-trip facilities must be submitted to the satisfaction of the Certifier: (a) the provision of a minimum 22 bicycle parking spaces; (b) the layout, design and security of bicycle facilities must comply with the minimum requirements of the latest version of AS 2890.3:2015 Parking facilities - Bicycle parking, and be located in easy to access, well-lit areas that incorporate passive surveillance; (c) the provision of end-of-trip facilities for staff; (d) appropriate pedestrian and cyclist advisory signs are to be provided; and (e) all works/regulatory signposting associated with the proposed developments shall be at no cost to the relevant roads authority								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Final bicycle parking and service facilities to be design certified + provided to the Certifier		**Built**	**Cardno | Northrop**							
	PART C - PRIOR TO COMMENCMENT OF CONSTRUCTION										
	Notice of Commencement										
C1	The Applicant must notify the Planning Secretary in writing of the dates of commencement of physical work and operation at least 48 hours before those dates.	Note	Note		22-Jan-20			✓	✓	✓	To be advised prior to commencement of each stage
	[i] Notification of commencement required to the Planning Secretary		**Built**	**dwp**	**22-Jan-20**						
C2	If the construction or operation of the development is to be staged, the Planning Secretary must be notified in writing at least 48 hours before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.	Note	Note					✓	✓	✓	Noted - to be provided for each CC
	[i] Notification of commencement of each construction stage required to the Planning Secretary		**Built**	**dwp**							
	Construction Certificate										
C3	Work must not commence until a Construction Certificate in respect of the work has been issued.							✓	✓	✓	Noted - staged CC's to meet programme
	[i] Construction certification process to be managed		**Built**	**dwp**							
	Outdoor Lighting										
C4	Prior to commencement of lighting installation, evidence must be submitted to the satisfaction of the Certifier that all outdoor lighting within the site has been designed to comply with AS 1158.3.1:2005 Lighting for roads and public spaces – Pedestrian area (Category P) lighting – Performance and design requirements and AS 4282-2019 Control of the obtrusive effects of outdoor lighting.								✓		Closed out - Submitted as part of CC#2
	[i] Finalise in outdoor lighting design process and submit to the Certifier		**Built**	**dwp|Northrop**							
	Demolition										
C5	Prior to the commencement of construction, demolition work plans required by AS 2601-2001 The demolition of structures (Standards Australia, 2001) must be accompanied by a written statement from a suitably qualified person that the proposals contained in the work plan comply with the safety requirements of the Standard. The work plans and the statement of compliance must be submitted to the Certifier and Planning Secretary.				21-Jan-20			✓			Closed out
	[i] Demolition work plans and statement submitted to the certifier		**Built**	**Northrop**	**21-Jan-20**						
	[ii] Copy of works plans and statement forwarded to Planning Secretary	**Nihon**		**dwp**	**21-Jan-20**						
C6	Prior to the commencement of internal demolition works within the State heritage listed former Newcastle Courthouse, evidence must be submitted to the satisfaction of the Certifier confirming works planned are required to make the existing building compliant with the fire and Life Safety Upgrade Strategy, prepared by Design Confidence, dated 12 June 2019, and that impacts to areas of high significant fabric have been limited.								✓		Revised and updated FER completed by Design Confidence & issued to the PCA
	[i] Fire and life safety strategy to be confirmed through fire engineering and forwarded to the Certifier		**Built**	**dwp|Northrop**							
	Environment Management Plan Requirements										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
C7	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include: (a) detailed baseline data; (b) details of: (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures and criteria; and (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria; (d) a program to monitor and report on the: (i) impacts and environmental performance of the development; (ii) effectiveness of the management measures set out pursuant to paragraph (c) above; (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; (f) a program to investigate and implement ways to improve the environmental performance of the development over time; (g) a protocol for managing and reporting any: (i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); (ii) complaint; (iii) failure to comply with statutory requirements; and (h) a protocol for periodic review / update of the plan and any updates in response to incidents or matters of non-compliance. Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans				23-Jan-20			✓			Closed out
	[i] Plan requirements incorporated in construction works		Built								
	[ii] Assessment of plan requirements following on from occupation	**Nihon**		**Azusa | dwp**							
	Construction Environmental Management Plan										
C8	Prior to the commencement of construction, the Applicant must submit a Construction Environmental Management Plan (CEMP) to the Certifier and provide a copy to the Planning Secretary. The CEMP must include, but not be limited to, the following: (a) Details of: (i) hours of work; (ii) 24-hour contact details of site manager; (iii) management of dust and odour to protect the amenity of the neighbourhood; (iv) stormwater control and discharge; (v) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site; (vi) groundwater management plan including measures to prevent groundwater contamination; (vii) external lighting in compliance with AS 4282-2019 Control of the obtrusive effects of outdoor lighting; (viii) community consultation and complaints handling; (b) Construction Traffic and Pedestrian Management Sub-Plan (see condition C10); (c) Construction Noise and Vibration Management Sub-Plan (see condition C11); (d) Construction Waste Management Sub-Plan (see condition C11(g)); (e) an unexpected finds protocol for contamination and associated communications procedure; (f) an unexpected finds protocol for non-Aboriginal heritage and associated communications procedure; (g) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site; and				23-Jan-20			✓			Closed out
	[i] CEMP developed by contractor + submission to the Certifier		**Built**		**22-Jan-20**						
	[ii] Copy of Camp forwarded to Planning Secretary	**Nihon**		**dwp**	**22-Jan-20**						
C9	The Applicant must not commence construction of the development until the CEMP is submitted to the Certifier and a copy submitted to the Planning Secretary.	Note	Note		23-Jan-20			✓			Closed out
C10	The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must address, but not be limited to, the following: (a) be prepared by a suitably qualified and experienced person(s); (b) be prepared in consultation with Council; (c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclists and pedestrians and bus services; (d) detail heavy vehicle routes, access and parking arrangements; (e) include a Driver Code of Conduct to: (i) minimise the impacts of earthworks and construction on the local and regional road network; (ii) minimise conflicts with other road users; (iii) minimise road traffic noise; and (iv) ensure truck drivers use specified routes; (f) include a program to monitor the effectiveness of these measures; and (g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.				23-Jan-20			✓			Closed out - CoN confirmation of consultation provided 12/02/20
	[i] CTPMSP developed by contractor + submission to Certifier		**Built**								
	[ii] Submission to the Planning Secretary required	**Nihon**		**dwp**							
C11	The Construction Noise and Vibration Management Sub-Plan must address, but not be limited to, the following: (a) be prepared by a suitably qualified and experienced noise expert; (b) describe procedures for achieving the noise management levels in EPA's Interim Construction Noise Guideline (DECC, 2009); (c) describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers; (d) include strategies that have been developed with the community for managing high noise generating works; (e) describe the community consultation undertaken to develop the strategies in condition C11(d); (f) include a complaints management system that would be implemented for the duration of the construction; and (g) include a program to monitor and report on the impacts and environmental performance of the development and the effectiveness of the management measures in accordance with condition C7(d). The program should be developed in accordance with the report titled Noise and Vibration Assessment – Operational and Construction report dated May 2019 and prepared by EMM Consulting, and included, but not limited: (i) alert triggers where project trigger noise levels are exceeded; and (ii) procedures for respite periods when sensitive receivers become 'highly noise affected' (i.e. noise levels exceed 75 dB(A).				23-Jan-20			✓			Closed out
	[i] CNVMS-P developed by contractor + submission to PCA		Built	EMM	22-Jan-20						

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
C12	The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following: (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and (b) removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works.				23-Jan-20			✓			Closed out
	[i] CWPMSP developed by contractor + submission to PCA		**Built**								
	Aboriginal Cultural Heritage Management Plan										
C13	Prior to the commencement of construction (excluding demolition works), an Aboriginal Cultural Heritage Management Plan (ACHMP) must be prepared and address, but not be limited to, the following: (a) be prepared by a suitably qualified and experienced expert in consultation with the Registered Aboriginal Parties; (b) be endorsed by the Planning Secretary prior to construction (excluding demolition works) of any part of the development; (c) describe the measures to protect any Aboriginal cultural deposits or relics uncovered during sub surface archaeological testing in accordance with the relevant legislation.							✓			Closed, site works closed out and report issued to PCA. AI # 11 provides confirmation of acceptance from DoP rec'd 16/04/20
	[i] ACHMSP developed by contractor + submission to PCA		**Built**	**AMAC**							
	[ii] Submission to and endorsement by the Planning Secretary required	**Nihon**		**dwp**							
	Construction Worker Transportation Strategy										
C14	Prior to the commencement of construction, the Applicant must submit a Construction Worker Transportation Strategy to the satisfaction of the Certifier. The Strategy must detail the provision of sufficient parking facilities or other travel arrangements for construction workers in order to minimise demand for parking in nearby public and residential streets or public parking facilities.				23-Jan-20			✓			Closed out
	[i] Strategy developed by contractor + submission to the Certifier		**Built**		**22-Jan-20**						
	[ii] Submission to the Planning Secretary required	**Nihon**		**dwp**	**22-Jan-20**						
	Stormwater Management System										
C15	Prior to the commencement of construction, the Applicant must design an operational stormwater management system for the development and submit it to the satisfaction of the Certifier. The system must: (a) be designed by a suitably qualified and experienced person(s); (b) be design in consultation with and to the satisfaction of Council; (c) be generally in accordance with the conceptual design in the EIS as amended by the RtS; (d) be in accordance with applicable Australian Standards; (e) ensure that the system capacity has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2019) and Managing Urban Stormwater: Council Handbook (EPA, 1997) guidelines; (f) divert existing clean surface water around operational areas of the site; (g) direct all sediment laden water in overland flow away from the leachate management system; (h) prevent cross-contamination of clean and sediment or leachate laden water; (i) include details of all on-site retention/detention and water quality treatment systems are to be individually signposted in accordance with Council's Stormwater and Water Efficiency for Development Technical Manual.							✓			Closed in CC#1 submission
	[i] Stormwater management system developed + submission to the Certifier		**Built**	**Cardno | Northrop**							
	Operational Noise – Design of Mechanical Plant and Equipment										
C16	Prior to installation of mechanical plant and equipment, the Applicant must incorporate the noise mitigation recommendations in the Noise and Vibration Assessment – Operational and Construction report dated May 2019 and prepared by EMM Consulting, into the detailed design drawings. The Certifier must verify that all noise mitigation measures have been incorporated into the design to ensure the development will not exceed the recommended operational noise levels identified in the Noise and Vibration Assessment – Operational and Construction report dated May 2019 and prepared by EMM Consulting.								✓		Closed out- Submitted as part of CC#2
	[i] Mechanical services design developed for compliance + submission to Certifier		**Built**	**Northrop**							
	[ii] The Certifier to verify the submitted design	**Nihon**		**Dix Gardner**							
	Archaeological Salvage - Historic Archaeology										
C17	Following the completion of demolition works and prior to the commencement of construction works, all affected historical archaeological deposits are to be subject to professional archaeological excavation and recording. An Archaeological Research Design and Excavation methodology must be prepared to guide the archaeological program. This must be prepared in accordance with Heritage Council of NSW Guidelines and in consultation with Heritage NSW, Department of Premier and Cabinet.							✓			Complete. Field work for Bldg A complete, Bldg B and C to follow. AI # 11 provides formal confirmation of approval from DoP dated 16/04/20
	[i] Methodology developed for compliance - consultation required with Heritage NSW + Premiers Department		**Built**	**AMAC**							
C18	The Archaeological program must be directed by a suitably qualified and experienced Archaeologist (Excavation Director). The nominated Excavation Director must be able to demonstrate their ability to undertake this work through a response to the Heritage Council's Excavation Director Criteria (July 2011) for salvage excavation for a site of local heritage significance.		-					✓			Closed - issued to PCA via Aconex 14/02/20. AI # 11 provides formal confirmation of approval from DoP dated 16/03/20 and 15/04/20.
	[i] AMAC credentials identified for compliance		**Built**	**AMAC**							
	Landscaping										
C19	Prior to the commencement of construction, the Applicant must prepare a revised Landscape Plan that provides a streetscape treatment that does not impede on the understanding of the former Newcastle Courthouse and its relationship to its environment and setting, and submit a copy to the Planning Secretary. The plan must (a) be prepared by a qualified heritage landscape consultant and submitted to the NSW Heritage Council, or its delegate, for endorsement; (b) provide an analysis of the existing site frontage hardstand, fences and gates, colours and finishes and landscape elements within the precinct; (c) demonstrate the retention of the existing heritage cast iron fence along the site frontage, including the iron palisade fence, sandstone plinth and sandstone piers, unless removal of sections is demonstrated to be essential for the functional requirements of the proposal (e.g. clearance required to establish the approved additional driveway crossover); (d) provide for the planting of eight trees that are sympathetic to the heritage values of the item and ensure no planting grow higher than 1.5 m in directly in front of the former Newcastle Courthouse; (e) detail the location, species, maturity and height at maturity of plants to be planted on-site; (f) include species (trees, shrubs and groundcovers) indigenous to the local area; (g) include the planting of trees with a pot container of 100 litres or greater; (h) include the provision of street tree planting. Species and spacing of trees are to be sympathetic to the heritage values of the item and are to be determined in consultation with Council.								✓		dwp confirmed condition met and closed out via Aconex of 27/04/20 (NB PCA had previously accepted this as part of the S138 approval and CC#3 submission rather than CC#2).
	[i] Landscape requirements to be worked through for resolution with Council + Heritage NSW	**Nihon**		**dwp | Moir**							
	Public Domain Works										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
C20	Prior to the commencement of any footpath or public domain works, the Applicant must engage a suitably qualified practicing engineer to design the following public domain works within the Church Street frontage of the site at no cost to Council and in accordance with the Newcastle City Centre Public Domain Manual guideline, design specifications and relevant Australian Standards: (a) new full width footpath and streetscape works and driveway; (b) reconstruct kerb and gutter, including associated road shoulder pavement and any associated drainage works; (c) new street trees and tree planting vaults in accordance with Council's requirement and adjust service pit levels to match new footpath levels; (d) kerb blisters and raised pedestrian crossings at the intersection of Bolton Street and Church Street; (e) upgrade street lighting across the frontage of the site to provide P3 Pedestrian Lighting Category in accordance with Australian Standard 1158.1; (f) upgrade of pedestrian crossing lighting to comply with Australian Standard 1158.4; (g) any necessary adjustments to regulatory signage.									✓	dwp confirmed that the PCA will accept this as part of the S138 approval and CC#3 submission rather than CC#2
	[i] Public domain works to be worked through for final resolution	**Nihon**		**dwp | Moir | Cardno**							
C21	Prior to the commencement of any footpath or public domain works, the Applicant must consult with Council and demonstrate to the Certifier that the public domain design and treatment, as required by condition C20, meets the Council's requirements, including addressing pedestrian management. The Applicant must submit documentation of approval for each stage from Council to the Certifier.									✓	dwp confirmed that the PCA will accept this as part of the S138 approval and CC#3 submission rather than CC#2
	[i] Public domain works to be worked through for final resolution - approval from Council submitted to the Certifier	**Nihon**		**dwp | Moir | cardno**							
	Compliance Reporting										
C22	No later than two weeks before the date notified for the commencement of construction, a Compliance Monitoring and Reporting Program prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2018) must be submitted to the Planning Secretary and the Certifier.				23-Jan-20			✓			Closed out
	[i] Compliance monitoring and reporting program prepared + provided to the Certifier		**Built**	**dwp | Northrop**							
	[ii] Submission of report to the Planning Secretary required	**Nihon**		**dwp**	**16-Jan-20**						
C23	Compliance Reports of the project must be carried out in accordance with the Compliance Reporting Post Approval Requirements (Department 2018).	Noted	Noted								Noted
C24	The Applicant must make each Compliance Report publicly available 60 days after submitting it to the Planning Secretary and notify the Planning Secretary and the Certifying Authority in writing at least seven days before this is done.										Noted
	[i] Compliance report made available publically and advise Planning Secretary + Certifier	**Nihon**		**Azusa | dwp**							
C25	Notwithstanding the requirements of the Compliance Reporting Post Approval Requirements (Department 2018), the Planning Secretary may approve a request for ongoing annual operational compliance reports to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an operational compliance report has demonstrated operational compliance.	Note	Note								Noted
	PART D - DURING CONSTRUCTION										
	Site Notice										
D1	A site notice(s): (a) must be prominently displayed at the boundaries of the site during construction for the purposes of informing the public of project details including, but not limited to the details of the Builder, Certifier and Structural Engineer is to satisfy the following requirements; (b) minimum dimensions of the notice must measure 841 mm x 594 mm (A1) with any text on the notice to be a minimum of 30-point type size; (c) the notice is to be durable and weatherproof and is to be displayed throughout the works period; (d) the approved hours of work, the name of the site/ project manager, the responsible managing company (if any), its address and 24-hour contact phone number for any inquiries, including construction/ noise complaint must be displayed on the site notice; and (e) the notice(s) is to be mounted at eye level on the perimeter hoardings/fencing and is to state that unauthorised entry to the site is not permitted.							✓			Closed out
	[i] Site notices developed by contractor + submission to the Certifier		**Built**								
	Operation of Plant and Equipment										
D2	All construction plant and equipment used on site must be maintained in a proper and efficient condition and operated in a proper and efficient manner.										Noted
	[i] Site plant maintained and equipment maintenance by contractor		**Built**								
	Demolition										
D3	Demolition work must comply with the demolition work plans required by Australian Standard AS 2601-2001 The demolition of structures (Standards Australia, 2001) and endorsed by a suitably qualified person as required by Condition C5.				21-Jan-20			✓			Closed out
	[i] Demolition processes developed by contractor		**Built**								
	Construction Hours										
D4	Construction, including the delivery of materials to and from the site, may only be carried out between the following hours: (a) between 7 am and 6 pm, Mondays to Fridays inclusive; and (b) between 8 am and 1 pm, Saturdays. No work may be carried out on Sundays or public holidays.										Noted
	[i] Construction hours factored into construction program		**Built**								
D5	Construction activities may be undertaken outside of the hours in condition D4 if required: (a) by the Police or a public authority for the delivery of vehicles, plant or materials; or (b) in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or (c) where the works are inaudible at the nearest sensitive receivers; or (d) where a variation is approved in advance in writing by the Planning Secretary or his nominee if appropriate justification is provided for the works.	Note	Note								Noted
D6	Notification of such construction activities as referenced in condition D5 must be given to affected residents before undertaking the activities or as soon as is practical afterwards.										
	[i] Notification to affected residents required		**Built**								
D7	Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours: (a) 9am to 12pm, Monday to Friday; (b) 2pm to 5pm Monday to Friday; and (c) 9am to 12pm, Saturday.										Noted
	[i] Check advice with the Certifier - demolition processes not considered as rock breaking or rock hammering - to be monitored		**Built**								
	Implementation of Management Plans										
D8	The Applicant must carry out the construction of the development in accordance with the most recent version of the approved CEMP (including Sub-Plans) and ACHMP.										Noted
	[i] Monitoring of compliance with management plans		**Built**								
	Construction Traffic										
D9	All construction vehicles (excluding site personnel vehicles) are to be contained wholly within the site, except if located in an approved on-street work zone, and vehicles must enter the site before stopping.		**Built**								Noted
	Hoarding Requirements										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
D10	The following hoarding requirements must be complied with: (a) no third-party advertising is permitted to be displayed on the subject hoarding/ fencing; and (b) the construction site manager must be responsible for the removal of all graffiti from any construction hoardings or the like within the construction area within 48 hours of its application.		Built								Noted
	No Obstruction of Public Way										
D11	The public way (outside of any approved construction works zone) must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances.		Built								Noted
	Construction Noise Limits										
D12	The development must be constructed to achieve the construction noise management levels detailed in the Interim Construction Noise Guideline (DECC, 2009). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures identified in the approved Construction Noise and Vibration Management Plan.		Built	EMM \ RAPT							Noted
D13	The Applicant must ensure construction vehicles (including concrete agitator trucks) do not arrive at the site or surrounding residential precincts outside of the construction hours of work outlined under condition D4.		Built								Noted
D14	The Applicant must implement, where practicable and without compromising the safety of construction staff or members of the public, the use of 'quackers' to ensure noise impacts on surrounding noise sensitive receivers are minimised.		Built								Noted
	Vibration Criteria										
D15	Vibration caused by construction at any residence or structure outside the site must be limited to: (a) for structural damage, the latest version of DIN 4150-3 (1992-02) Structural vibration - Effects of vibration on structures (German Institute for Standardisation, 1999); and (b) for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: a technical guideline (DEC, 2006) (as may be updated or replaced from time to time).		Built	EMM \ RAPT							Noted
D16	Vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified in condition D15.		Built								Noted
D17	The limits in conditions D15 and D16 apply unless otherwise outlined in a Construction Noise and Vibration Management Plan, approved as part of the CEMP required by condition C11 of this consent.		Built	EMM							Noted
	Tree Protection										
D18	For the duration of the construction works: (a) street trees, with the exception of the one nominated street tree approved for removal to accommodate the new driveway crossover, must not be trimmed or removed unless it forms a part of this development consent or prior written approval from Council is obtained or is required in an emergency to avoid the loss of life or damage to property; (b) all street trees to be retained must be protected at all times during construction. Any tree on the footpath, which is damaged or removed during construction due to an emergency, must be replaced, to the satisfaction of Council; (c) all trees on the site that are not approved for removal must be suitably protected during construction as per recommendations of the Aboricultural Impact Assessment Report dated 17 November 2019 and prepared by Joseph Pidutti Consulting Arborist; and (d) if access to the area within any protective barrier is required during the works, it must be carried out under the supervision of a qualified arborist. Alternative tree protection measures must be installed, as required. The removal of tree protection measures, following completion of the works, must be carried out under the supervision of a qualified arborist and must avoid both direct mechanical injury to the structure of the tree and soil compaction within the canopy or the limit of the former protective fencing, whichever is the greater.		Built								Closed
	Air Quality										
D19	The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.		Built								Noted
D20	During construction, the Applicant must ensure that: (a) exposed surfaces and stockpiles are suppressed by regular watering; (b) all trucks entering or leaving the site with loads have their loads covered; (c) trucks associated with the development do not track dirt onto the public road network; (d) public roads used by these trucks are kept clean; and (e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.		Built								Noted
	Erosion and Sediment Control										
D21	All erosion and sediment control measures must be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works have been stabilised and rehabilitated so that it no longer acts as a source of sediment. Erosion and sediment control techniques, as a minimum, are to be in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom, 2004) commonly referred to as the 'Blue Book'.		Built								Noted
	Imported Soil										
D22	The Applicant must: (a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site; (b) keep accurate records of the volume and type of fill to be used; and (c) make these records available to the Certifier upon request.		Built								Noted
	Disposal of Seepage and Stormwater										
D23	Adequate provisions must be made to collect and discharge stormwater drainage during construction of the building to the satisfaction of the principal Certifier. The prior written approval of Council must be obtained to connect or discharge site stormwater to Council's stormwater drainage system or street gutter.		Built								Noted
	Unexpected Finds Protocol - Aboriginal Heritage										
D24	In the event that surface disturbance identifies a new Aboriginal object, all works must halt in the immediate area to prevent any further impacts to the object(s). A suitably qualified archaeologist and the registered Aboriginal representatives must be contacted to determine the significance of the objects. The site is to be registered in the Aboriginal Heritage Information Management System (AHIMS) which is managed by EES Group and the management outcome for the site included in the information provided to AHIMS. The Applicant must consult with the Aboriginal community representatives, the archaeologists and EES Group to develop and implement management strategies for all objects/sites. Works shall only recommence with the written approval of EES Group.		Built	AMAC							Noted
	Unexpected Finds Protocol - Historic Heritage										
D25	If any unexpected archaeological relics are uncovered during the work, then all works must cease immediately in that area and the NSW Heritage Division contacted. Depending on the possible significance of the relics, an archaeological assessment and management strategy may be required before further works can continue in that area. Works may only recommence with the written approval of the NSW Heritage Division.		Built	AMAC							Noted
	Waste Storage and Processing										
D26	All waste generated during construction must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.		Built								Noted

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
D27	All waste generated during construction must be assess, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).		**Built**								Noted
D28	The Applicant must ensure that concrete waste and rinse water are not disposed of on the site and are prevented from entering any natural or artificial watercourse.		Built								Noted
	Independent Environmental Audit										
D29	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the preparation of an Independent Audit Program or commencement of an Independent Audit.										Closed - GHD appointed & endorsed
	[i] Notification of independent auditors to be given to the Planning Secretary and agreed to - relates to environmental aspects of construction	**Nihon**	**Built**	**Azusa | dwp**							
D30	Prior to the commencement of construction, an Independent Audit Program prepared in accordance with the Independent Audit Post Approval Requirements (Department 2018) must be submitted to the Planning Secretary and the Certifier.										Closed - dwp issued
	[i] Independent audit program prepared and submitted to Planning Secretary and the Certifier	**Nihon**	**Built**	**Azusa | dwp**							
D31	Table 1 of the Independent Audit Post Approval Requirements (Department 2018) is amended so that the frequency of audits required in the construction phase is: (a) an initial construction Independent Audit must be undertaken within eight weeks of the notified commencement date of construction; (b) a subsequent Independent Audit of construction must be undertaken no later than six months from the date of the initial construction Independent Audit; and In all other respects Table 1 remains the same. The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified above, upon giving at least 4 weeks notice to the applicant of the date upon which the audit must be commenced.										Noted, Initial Audit undertaken 26/02/20 with final report issued by GHD on 26/03/20. Follow up audit scheduled for end of August '20
	[i] Audit program linked to construction dates	**Nihon**	**Built**	**Azusa | dwp**							
D32	Independent Audits of the development must be submitted to the Planning Secretary and must be carried out in accordance with: (a) the Independent Audit Program submitted to the Planning Secretary and the Certifier under condition D30 of this consent; and (b) the requirements for an Independent Audit Methodology and Independent Audit Report in the Independent Audit Post Approval Requirements (Department 2018).										Noted
	[i] Independent audits must be submitted to the Planning Secretary and the Certifier	**Nihon**	**Built**	**Azusa | dwp**							
D33	Requirements (Department 2018), the Applicant must: (a) review and respond to each Independent Audit Report prepared under condition D30 of this consent; (b) submit the response to the Planning Secretary and the Certifier; and (c) make each Independent Audit Report and response to it publicly available 60 days after submission to the Planning Secretary and notify the Planning Secretary and the Certifier in writing at least seven days before this is done.										Noted
	[i] Response required to each independent audit - Planning Secretary and the Certifier notified	**Nihon**	**Built**	**Azusa | dwp**							
D34	Notwithstanding the requirements of the Independent Audit Post Approval Requirements (Department 2018), the Planning Secretary may approve a request for ongoing annual operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an audit has demonstrated operational compliance.	Note	Note								Noted

NB Rows for post PC hidden above

Urgently required - holding up CC\OC

Closed out & complete

In progress or required for future CC stage

Note with no further actions required

Appendix H - Monthly Waste Recovery Reports

CENTRAL WASTE STATION

DRUMDERG SERVICES

NIHON UNIVERSITY

RESOURCE RECOVERY REPORT

JUNE 2020

Towards a Sustainable Future

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centralwaste.com.au
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8 Styles Street
Kurri Kurri NSW 2327

BN: 44 604 989 433 |Environmental Protection Licence Number: 13013

AS/NZS 4801 - OHS MANAGEMENT
ISO 9001 - QUALITY MANAGEMENT
ISO 14001 - ENVIRONMENTAL MANAGEMENT

1. OVERVIEW

High recovery rates for June 2020 have been achieved. C&D materials for this month which were placed into bins typically included a mixture of mainly wood/timber, scrap metals, gyprock, etc. processed at our Resource Recovery Facility, offering a very high level of recoverability.

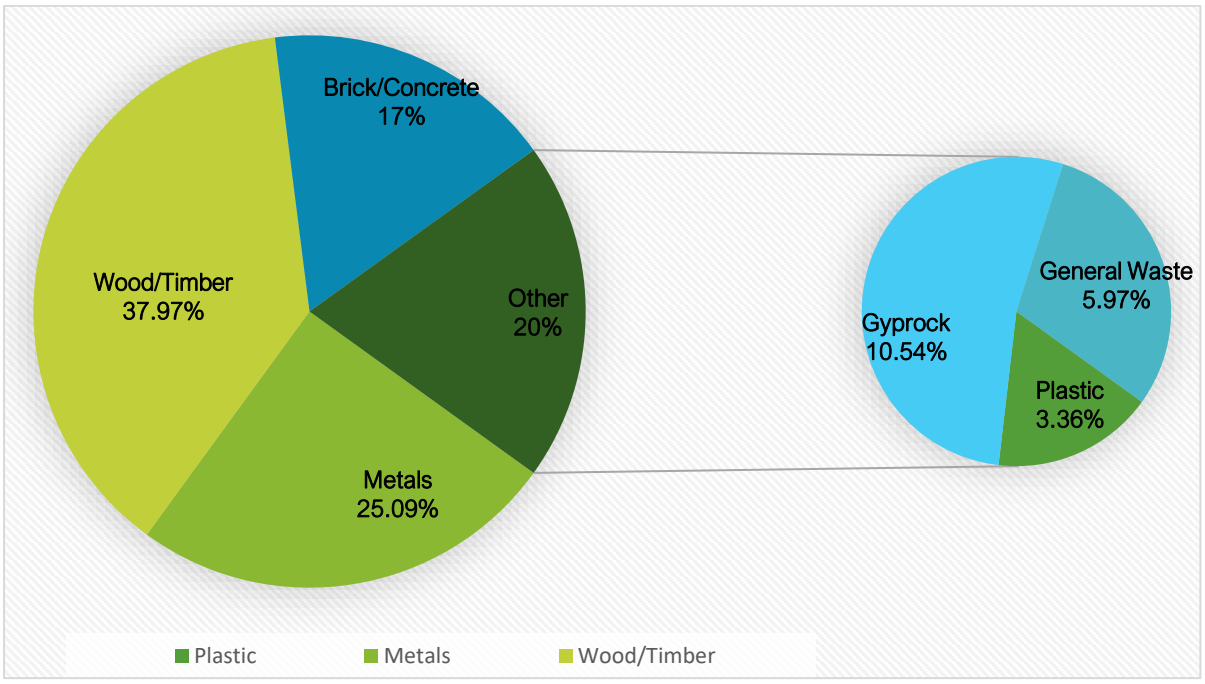
Materials were free of contamination by food or other organic matter which assists in recovery rates, however, non-recoverable/difficult material such as carpets, some plastics, etc. were found and disposed of as per local regulations.

2. CWS - RECOVERABLE MATERIALS MONTHLY BREAKDOWN

Breakdown of resources recovered, transported and processed at Central Waste Station's Resource Recovery Facility.

MONTHLY BREAKDOWN	
Total Amount Received (Tonnes)	21.44
Total Recovered (Tonnes)	19.44
Total Recovery Percentage	90.67%

RESOURCE TYPE	TONNES RECOVERED	PERCENTAGE
WOOD/TIMBER	8.14	37.97%
BRICKS/CONCRETE	3.66	17.07%
METALS	5.38	25.09%
PLASTICS	0.72	3.36%
GYPROCK	2.26	10.54%
GENERAL WASTE (NON RECYCLABLE)	1.28	5.98%



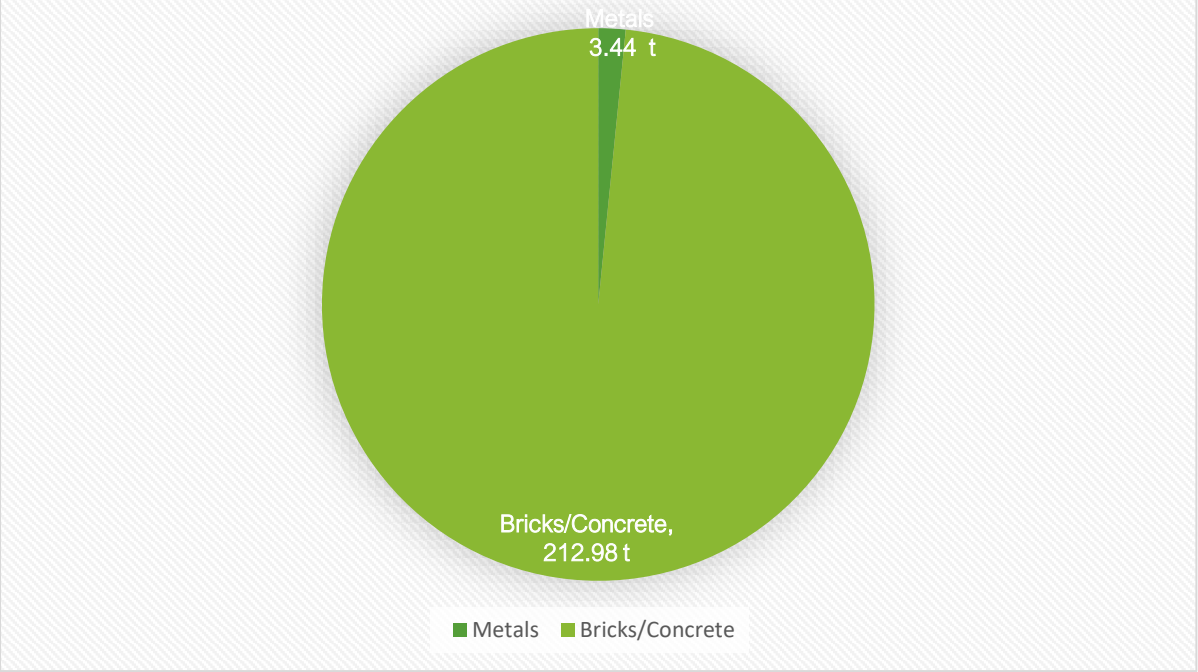
3. OTHER FACILITIES - RECOVERABLE MATERIALS MONTHLY BREAKDOWN

Breakdown of resources recovered, transported and processed at local material specific recycling facilities to achieve full recyclability. These include:

- Metals – Sell & Parker
- Concrete/Brick - Boral

MONTHLY BREAKDOWN	
Total Amount Received (Tonnes)	216.42
Total Recovered (Tonnes)	216.42
Total Recovery Percentage	100%

RESOURCE TYPE	TONNES RECOVERED
METALS	3.44
BRICKS/CONCRETE	212.98



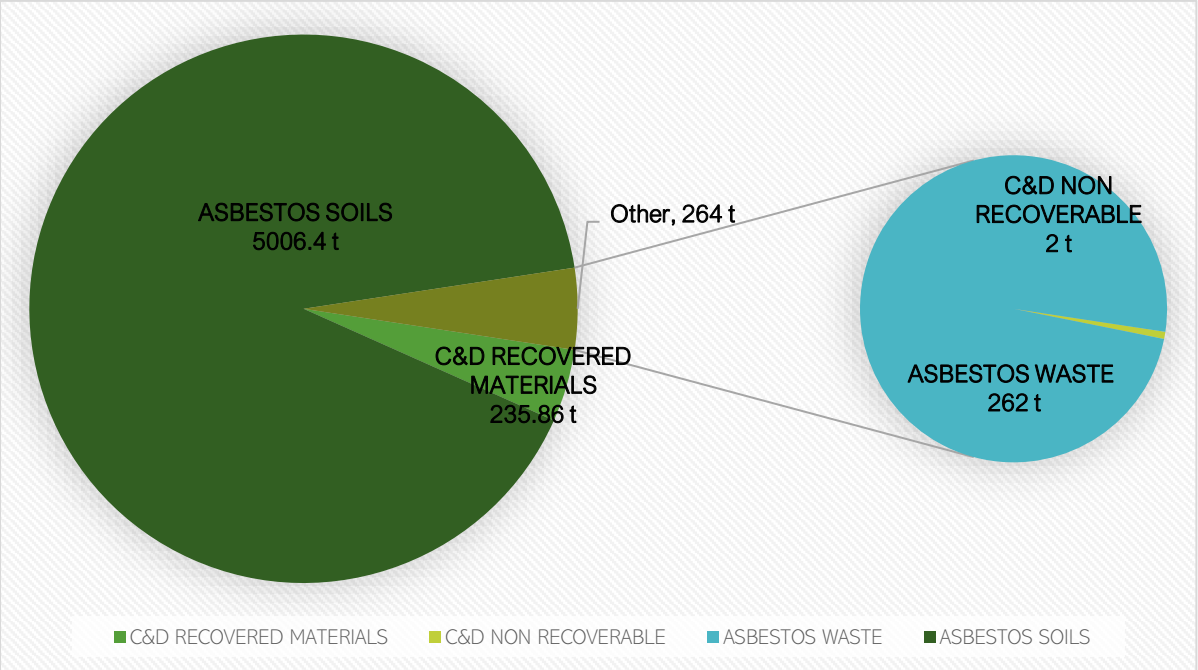
4. RECOVERY SUMMARY

MONTHLY BREAKDOWN	CWS	OTHER FACILITIES (material specific)	TOTAL
Total Amount Received (Tonnes)	21.44	216.42	237.86
Total Recovered (Tonnes)	19.44	216.42	235.86
C&D Non-Recoverable Percentage	9.33%	0.00%	0.51%
Total Recovery Percentage	90.67%	100%	99.16%

5. TOTAL EXPORTED MATERIALS MONTHLY BREAKDOWN (INCLUDING NON-RECYCLABLES)

A summary of all materials exported from site by Drumderg throughout the month of April, including special/difficult waste such as asbestos, has been including in the following table and graphic.

RESOURCE TYPE	TONNES
C&D RECOVERED MATERIALS	235.86
C&D NON RECOVERABLE	2.00
ASBESTOS WASTE	2.62
ASBESTOS SOILS	5006.40



CENTRAL WASTE STATION

BUILT

NIHON UNIVERSITY

RESOURCE RECOVERY REPORT

JUNE 2020

Towards a Sustainable Future

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Kurri Kurri NSW 2327

BN: 44 604 989 433 |Environmental Protection Licence Number: 13013

AS/NZS 4801 - OHS MANAGEMENT
ISO 9001 - QUALITY MANAGEMENT
ISO 14001 - ENVIRONMENTAL MANAGEMENT

OVERVIEW

Bins collected typically had a mixture of steel, plastic and cardboard which offers a very high level of recoverability. Waste was free of contamination by food or other organic matter which assists in recovery rates.

MONTHLY BREAKDOWN

MONTHLY BREAKDOWN	
Total Amount Received (Tonnes)	8.30
Total Recovered (Tonnes)	7.42
Total Recovery Percentage	89.40%

RESOURCE TYPE	TONNES RECOVERED	PERCENTAGE
SCRAP METALS	2.04	24.63%
TIMBER	2.63	31.74%
CONCRETE/BRICK	1.71	20.62
CARDBOARD/PAPER	0.76	9.12

