



S92 Query 95 – Watercare Services Limited correspondence CON-185299

Ashleigh Frew

From: James Shao <James.Shao@water.co.nz>
Sent: Thursday, 16 November 2023 2:44 pm
To: Katie Scheirlinck
Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Yes, Katie, all the upstreram flow including your development site ends up going through this 150mm line.

Although it is quite far away, It can be a bottleneck if it is a 150mm line. Hence, we want to have this one checked first.

Kind regards,

James Shao | Senior Development Engineer, Developer Services
Customer service line: +64 9 442 2222 Ext 4
Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand
Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand
Website: www.watercare.co.nz

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
Sent: Thursday, November 16, 2023 2:17 PM
To: James Shao <James.Shao@water.co.nz>
Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi James,

It looks like the snip below is further down the CBD, its not near our site at all. Is this the correct assessment?

Thanks,

Ngā mihi | Kind regards,

Katie Scheirlinck (she/her) | **Civil Engineer**

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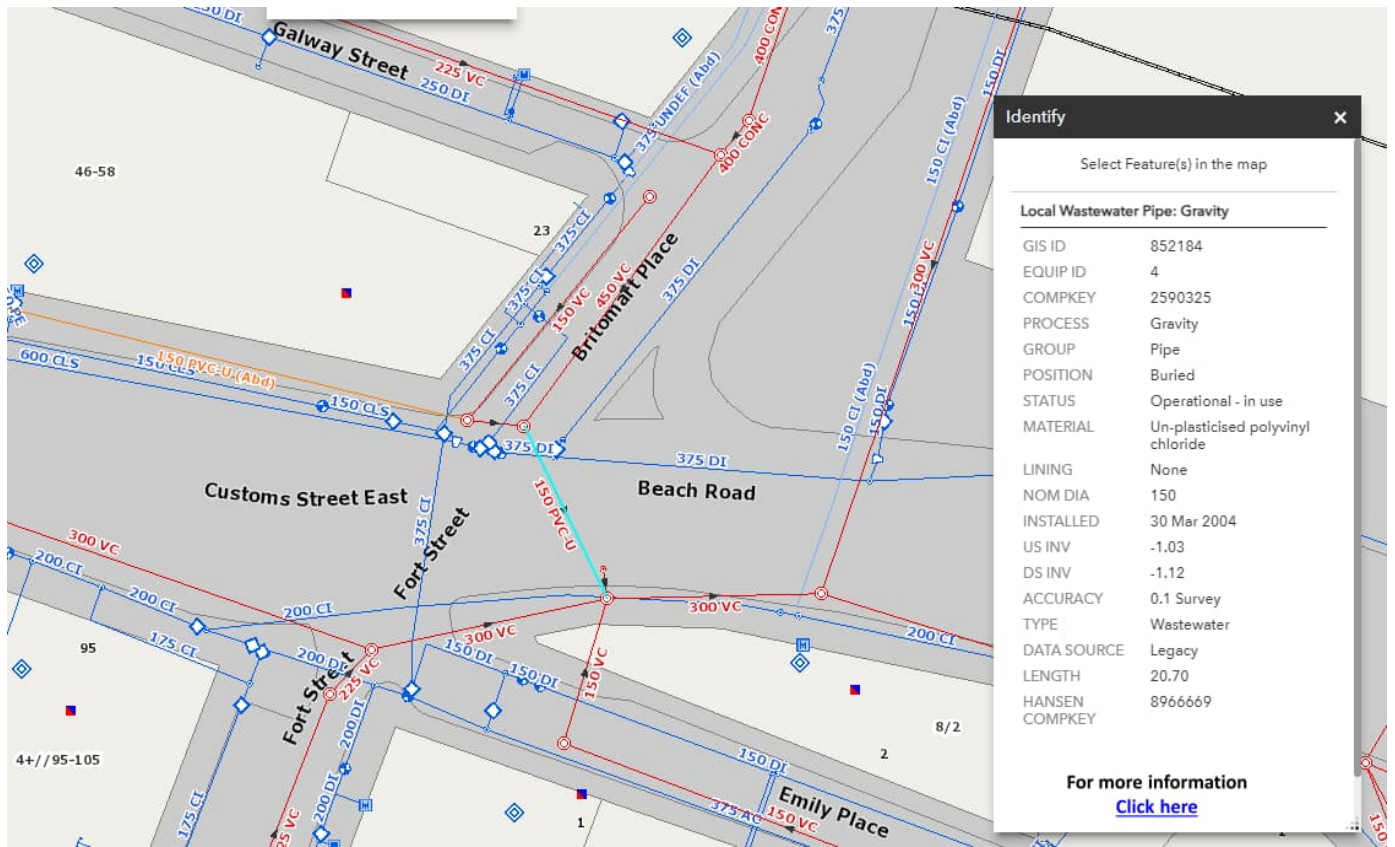
From: James Shao <James.Shao@water.co.nz>
Sent: Thursday, November 16, 2023 1:37 PM
To: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Katie,

Our planning team has completed the assessment regarding this development proposal.

WSL has identified several downstream wastewater lines that need to be upgraded as the condition of this review approval.

One of them is the 150mm section crossing Beach Road (highlighted in the GIS snip below); we suspect that there may be an error in GIS.



Would you like to survey that section to confirm the actual line size? Or are you happy for us to list that line as a required upgrading item?

Kind regards,

James Shao | Senior Development Engineer, Developer Services

DDI: 09 5398438

Customer service line: +64 9 442 2222 Ext 4

Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Sent: Friday, September 29, 2023 2:49 PM

To: James Shao <James.Shao@water.co.nz>

Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

CAUTION: External Email!

Hi James,

Ok notes, thanks.

Have a good weekend,

Nga mihi | Kind regards,

[Katie Scheirlinck \(she/her\) | Civil Engineer](#)

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From: James Shao <James.Shao@water.co.nz>

Sent: Friday, September 29, 2023 2:45 PM

To: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Katie,

It is the planning team who should review the water capacity issue if there is a need.

However, this is downtown, and I believe we should have an adequate water supply network based on other reviews done previously unless your development asks for a supply need higher than FW2.

Kind regards,

[James Shao](#) | Senior Development Engineer, Developer Services

DDI: 09 5398438

Mobile: 021 419 403

Customer service line: +64 9 442 2222 Ext 4

Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Sent: Friday, September 29, 2023 2:38 PM

To: James Shao <James.Shao@water.co.nz>

Cc: Steven Lopati <SLopati@tonkintaylor.co.nz>

Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

CAUTION:External Email!

Hi James,

Thanks for the quick response. Appreciate that! Will wait to hear from you.

Does the planning team also review the water supper assessment or is that with someone else?

Nga mihi | Kind regards,

[Katie Scheirlinck \(she/her\) | Civil Engineer](#)

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From: James Shao <James.Shao@water.co.nz>
Sent: Friday, September 29, 2023 2:36 PM
To: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Katie,

I am waiting for the comment from our planning team, and I know they are currently overloaded with some of the major development proposals.

Anyway, I will keep chasing them next week.

Kind regards,

James Shao | Senior Development Engineer, Developer Services

DDI: 09 5398438

Customer service line: +64 9 442 2222 Ext 4

Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
Sent: Friday, September 29, 2023 2:18 PM
To: James Shao <James.Shao@water.co.nz>
Cc: David Hansen <DHansen@tonkintaylor.co.nz>; Steven Lopati <SLopati@tonkintaylor.co.nz>
Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

CAUTION: External Email!

Hi James,

Hope you are well.

Can you please provide a status update on our Infrastructure assessment for both Wastewater, and Water Supply?


Thanks

Nga mihi | Kind regards,

Katie Scheirlinck (she/her) | Civil Engineer

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
Sent: Monday, August 21, 2023 2:54 PM
To: James Shao <James.Shao@water.co.nz>
Cc: David Hansen <DHansen@tonkintaylor.co.nz>; Steven Lopati <SLopati@tonkintaylor.co.nz>
Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST


Hi James,

I have now attached our catchment assessment for you to pass on to the planners for further comment.

Please let me know if you have any question or need more information.

Cheers,
Katie

Nga mihi | Kind regards,

[Katie Scheirlinck \(she/her\) | Civil Engineer](#)
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From: James Shao <James.Shao@water.co.nz>
Sent: Friday, August 4, 2023 3:03 PM
To: Steven Lopati <SLopati@tonkintaylor.co.nz>
Cc: David Hansen <DHansen@tonkintaylor.co.nz>; Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Steven,

Yes, your summary is pretty much in line with our expectations.

To make it easier for our planning team to check, please use the GIS ID as the reference (in the council's GIS system) to identify each related network section, such as MHs, and lines.

Kind regards,

[James Shao](#) | Senior Development Engineer, Developer Services
DDI: 09 5398438
Customer service line: +64 9 442 2222 Ext 4
Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand
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From: Steven Lopati <SLopati@tonkintaylor.co.nz>
Sent: Friday, August 4, 2023 2:31 PM
To: James Shao <James.Shao@water.co.nz>

Cc: David Hansen <DHansen@tonkintaylor.co.nz>; Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

CAUTION:External Email!

Hi James,

Thanks for your time over the phone to clarify the requirements for the wastewater catchment assessment and network capacity.

I have noted our discussions below and will complete the assessment on that basis.

Phone discussions with James Shao, Senior Development Engineer:

DDI: 09 539 8438

4 August 2023

11.58am

Discussions regarding the capacity assessment for the existing wastewater network for Downtown Carpark Redevelopment:

- Watercare Services Ltd are open to the methodology of catchment assessment.
- The assessment should only need to use GIS as-built information on the Auckland Council Geomaps to define the catchment.
- The wastewater catchment shall consider the wastewater piped network upstream and downstream of site subject site.
- The downstream piped network will stop where the nearest 300mm diameter pipeline is located.
- Keep it simple and make assumptions that are reasonable to assess flows from buildings.
 - Identify the number of floors for building, wet or dry retail as per CoP
 - Based on no. of persons per floor
 - Use the Floor areas based on the Auckland Council GIS maps
 - Apply the rate of 65 litres per person per day
 - Wet retail for 15 litres per day per net area
 - Apartments floors could be difficult to estimate the number of Apartments
 - Take overall floor area as per GIS
 - Estimate common areas, stairs etc as a percentage to determine
 - Assume Average 2-brm apartment equivalent to 50 -60 sq metres.
 - Work our PWWF accordingly
- Catchment extent of analysis
 - Go to the nearest 300mm diameter point downstream
 - Using Geomaps
- Provide the pipe invert levels and capacity checks based on GIS information
 - If no information available assume COP minimum gradients
 - Provide a spreadsheet of the information and checks to watercare

If you have any queries, please feel free to contact me.

Ngā mihi nui | Kind regards,

Steven Lopati | Senior Civil Engineer

BE, CPEng, CMEngNZ, IntPE (NZ)

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From: James Shao <James.Shao@water.co.nz>
 Sent: Friday, August 4, 2023 9:11 AM
 To: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>
 Cc: Steven Lopati <SLopati@tonkintaylor.co.nz>; David Hansen <DHansen@tonkintaylor.co.nz>
 Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Katie,

Please refer to the pages below in the snip shot of WSL COP.

Content from the Standard NZS 4404:2010 Land development and subdivision infrastructure ha: standards Framework with permission from Standards New Zealand under Licence (

B. Commercial design flows (non-domestic):

- a) Where flows (both average and peak) from a particular commercial activity are known, they shall be used as the basis of design.
- b) If average flows are available for the commercial activity, but peak discharge factors for the activity are unavailable, the average flow data shall be used in conjunction with the Peaking Factors documented in Table 5.1.3 to estimate the Self-Cleansing and Peak Design Flows.
- c) Where there is no specific flow information available, Table 5.1.4 shall be used to estimate the Design Flows.

Table 5.1.3 Commercial - dry retail, office and wet retail design wastewater flow allowance and peaking factors

Commercial activity type	Design wastewater flow allowance	Design wastewater peaking factors	
		Peaking factor: Self-Cleansing Design Flow (Normal PDWF)	Peaking factor: Peak Design Flow (PWDF or Exceptional PDWF)
Dry retail (Note 1) (where kitchen/toilets are <u>not</u> normally made available to customers)	1 person per 50m ² net floor area at 65 litres per person per day.	2.0	5.0
Office buildings and dry retail where toilet facilities, etc. are provided to customers.	1 person per 15m ² net floor area at 65 litres per person per day.	2.0	5.0
Wet retail (Note 2): Food and or beverage retail/preparation e.g. coffee shop, restaurant, bar, butcher, fresh fruit and vegetable retail.	15 litres per day per net m ² of floor area (including kitchen and dining areas).	2.0	6.7

Kind regards,

James Shao | Senior Development Engineer, Developer Services
 DDI: 09 5398438
 Customer service line: +64 9 442 2222 Ext 4

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Sent: Thursday, August 3, 2023 3:27 PM

To: James Shao <James.Shao@water.co.nz>

Cc: Steven Lopati <SLopati@tonkintaylor.co.nz>; David Hansen <DHansen@tonkintaylor.co.nz>

Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

CAUTION:External Email!

Hi James,

Can you please clarify regarding the catchment assessment? We understand there are flow rates/m2 provided for different commercial activity types i.e retail and office buildings. However, given the context of it being in the CBD it would be unrealistic to work this out on a site-by-site basis for the surrounding area.

Maybe I have missed this in the CoP where it gives flow per m2 of catchment area for the CBD. Can you please point me to the right clause in the CoP if this is the case?

Thanks

Nga mihi | Kind regards,

[Katie Scheirlinck \(she/her\)](#) | Civil Engineer

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From: James Shao <James.Shao@water.co.nz>

Sent: Tuesday, July 11, 2023 11:27 AM

To: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Cc: Maurice Mills <MMills@tonkintaylor.co.nz>

Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Katie,

You can use the flow rate/m2-based method for commercial sites for your catchment assessment. Details of the recommended flow rate /m2 can be found in WSL COP.

Regarding the current capacity uptake of the downstream pump station, I had a conversation with our planning team engineers the other day. Based on the previous check, the remaining available capacity is about 10% – 20% (The maximum is slightly less than 100 L/s).

Kind regards,

[James Shao](#) | Senior Development Engineer, Developer Services

DDI: 09 5398438

Customer service line: +64 9 442 2222 Ext 4

Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Sent: Tuesday, July 11, 2023 10:31 AM

To: James Shao <James.Shao@water.co.nz>

Cc: Maurice Mills <MMills@tonkintaylor.co.nz>

Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

CAUTION: External Email!

Hi James,

It would be good to get some clarification on Watercare's expectations of how the total flows from the upstream and downstream catchment area up to 300mm network are calculated. Given the context of it being in the CBD, it would be unrealistic to work this out on a site-by-site basis, therefore we would suggest using an average flow per m² of catchment area for developed areas. Can you please confirm this is acceptable and advise what average flow we should use.

You previously mentioned that the existing wastewater network downstream of the proposed development site is near capacity. If this information is known, then we would have thought Watercare would already have peak flow data available for the line and am wondering what benefit it would be to provide a catchment assessment up to the 300mm network?

Further to this, could you please provide us with what our options may be if the line is near capacity?

Nga mihi | Kind regards,

[Katie Scheirlinck \(she/her\) | Civil Engineer](#)

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From: James Shao <James.Shao@water.co.nz>

Sent: Thursday, July 6, 2023 4:25 PM

To: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Subject: RE: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Katie,

We are expecting the catchment study from your side. I need this to engage with our planning team for further comment.

The calculation you provided last time only provides the flow demand from your development, and we need to see the total flows from the upstream and downstream catchment area up to 300mm network.

The program we are interested in is the construction program, so we know what demand is required at what timeframe.

Kind regards,

James Shao | Senior Development Engineer, Developer Services

DDI: 09 5398438

Customer service line: +64 9 442 2222 Ext 4

Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

Website: www.watercare.co.nz

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Sent: Thursday, July 6, 2023 4:09 PM

To: James Shao <James.Shao@water.co.nz>

Cc: Maurice Mills <MMills@tonkintaylor.co.nz>

Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

CAUTION: External Email!

Hey James,

Is there any update on this? let me know if i can provide anymore information?

On programme, what know at the moment is that resource consent lodgment is planned for the send of September 20203.

Cheers

Nga mihi | Kind regards,

Katie Scheirlinck (she/her) | Civil Engineer

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Sent: Thursday, June 29, 2023 5:19 PM

To: James Shao <James.Shao@water.co.nz>

Cc: Maurice Mills <MMills@tonkintaylor.co.nz>

Subject: Re: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Thanks James.

I've attached a breakdown of the catchment. It's a summary as the proposed development has three towers, so there are a lot of floors.

Another item to be confirmed is the peaking factors. We have currently used the values in the CoP but you may be able to advise something more appropriate for the site?

I'll come back to you on the programme.

Nga mihi | Kind regards,

[Katie Scheirlinck \(she/her\) | Civil Engineer](#)

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From: James Shao <James.Shao@water.co.nz>

Sent: Wednesday, June 28, 2023 1:54 PM

To: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Subject: CON-185299_Downtown Carpark Redevelopment - Network capacity_2 Lower Hobson ST

Hi Katie,

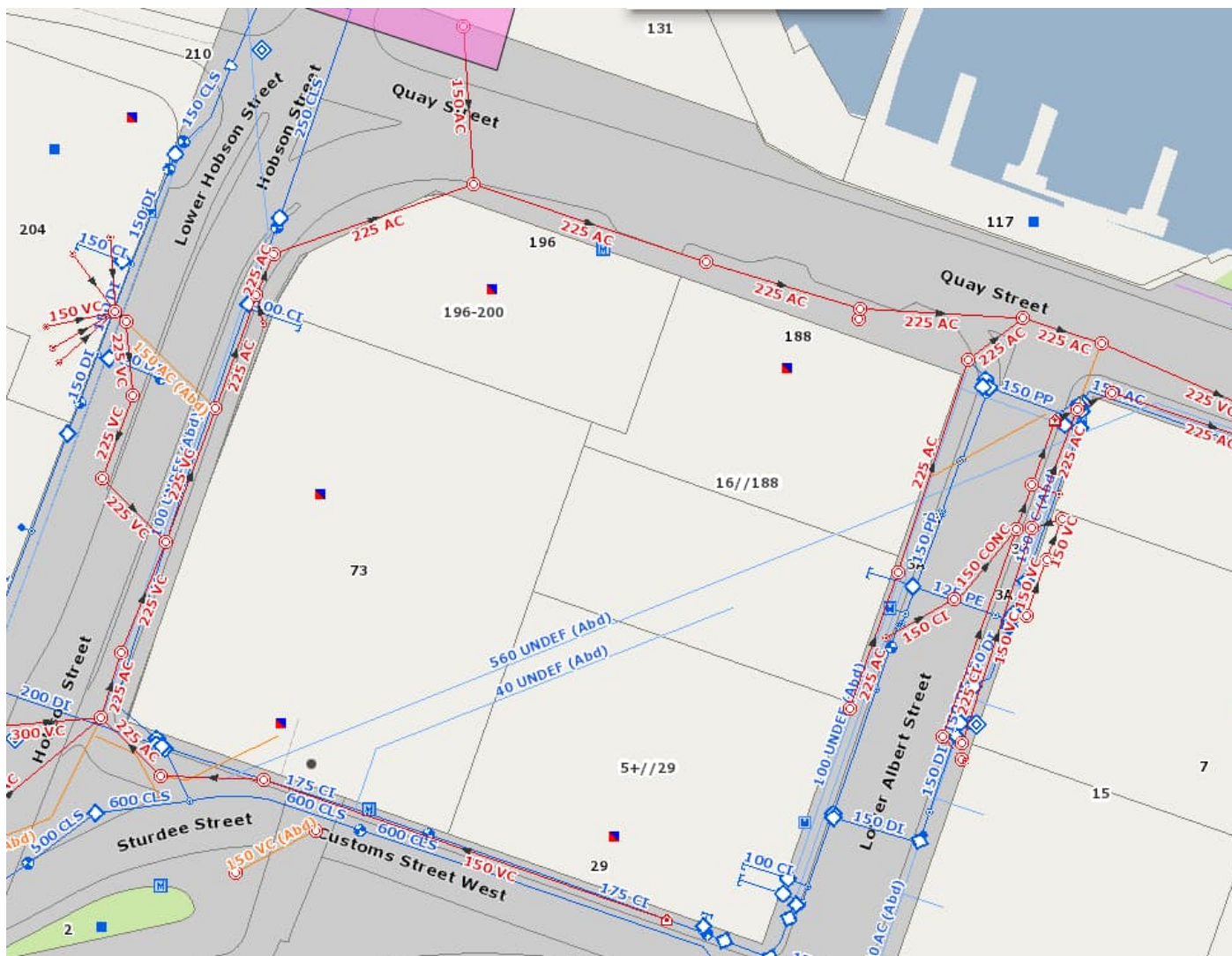
Sorry about the late response.

I consulted with our planning team about the proposed commercial and residential development at 2 Lower Hobson ST.

The short answer is that the existing wastewater network downstream of your proposed development site is near capacity considering the already approved consent and the currently reviewed ones.

With the projected total PWWF being 5.6 L/s from your development, the downstream wastewater network is unlikely to have adequate capacity.

Could you please forward us your catchment study to the 300mm network line (highlighted in the below snip) as required by our COP? So I can engage our planning team again for further comment.



The other important factor is your development program, so we know how much capacity is needed and at what timeframe from this development proposal.

Kind regards,

[James Shao](#) | Senior Development Engineer, Developer Services

DDI: 09 5398438

Customer service line: +64 9 442 2222 Ext 4

Postal address: Private Bag 92 521, Victoria Street West, Auckland 1142, New Zealand

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

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From: Katie Scheirlinck <KScheirlinck@tonkintaylor.co.nz>

Sent: Wednesday, May 17, 2023 3:50 PM

To: JRach (Ji) <ji.rach@water.co.nz>

Cc: Maurice Mills <MMills@tonkintaylor.co.nz>

Subject: Downtown Carpark Redevelopment - Network capacity

CAUTION:External Email!

Hi Ji,

I'm currently working on the civil infrastructure design for the Resource Consent of the Downtown Carpark redevelopment project.

I've got your email from Maurice, and I'm hoping you'll be able to give me the contact information of someone to discuss the connection points and surrounding network capacity with?

Nga mihi | Kind regards,

[Katie Scheirlinck \(she/her\) | Civil Engineer](#)

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S92 Query 96 – Development Application Form

Development Application Form – Water Supply/Wastewater Planning Assessment		
Date of Application	06/12/24	
Address of Development	2 Lower Hobson Street, Auckland CBD	
Layout Plan of Proposed Development clearly showing: <ul style="list-style-type: none"> • Aerial photograph • Road names • Boundary of development • Preferred point of connection to existing water supply and wastewater asset 	Refer attached plans	
	Description	Comment
Current Land Use	Multi-storey Commercial	<i>Residential (Single family dwellings) / Residential (Multi-unit dwellings) / Residential (Multi-storey apartment blocks) / Commercial / Industrial / Other (Please Specify)</i>
Proposed Land Use	Multi-storey commercial Multi-storey residential	
Total Development Area (Ha.)	6,442m ²	Downtown west site area provided by WAM DWG RC05-0100 Rev E dated 22/07/2024
Number of Residential Households (Consent & Ultimate)	Exact number TBC. Development includes a 54 level (T1) tower and 44 level (T2) tower.	Estimated flows based on Resource Consent Document E GFA & AFA Schedule & Plans, Prepared by Warren and Mahoney dated 22 July 2024.

Refer to Water and Wastewater Code of Practice for Land Development and Subdivision Section 6 Water Supply

Water Supply Development Assessment		
Average and Peak Residential Demand (L/s)	Peak demand = 15 l/s	<i>Estimated peak flows provided by the building services engineer 26/05/2024. Updated flows to be provided at subsequent design stage</i>
Average and Peak Non-Residential Demand (L/s)	Peak demand = 7.3 l/s	<i>Estimated peak flows provided by the building services engineer 26/05/2024. Updated flows to be provided at subsequent design stage</i>
Non Residential Demand Typical Daily Consumption Profile / Trend		<i>E.g. 24 hr operation / 10 hr (9am – 5pm) / Filling on-site storage at certain frequency</i>
Fire- fighting Classification required by the proposed site	FW2 (assuming sprinklered) fire flow demand 25 l/s	<i>Refer to New Zealand Standard SNZ PAS 4509:2008</i>
Hydrant Flow Test Results	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>Attach hydrant flow test layout plan and results showing test date & time; location of hydrants tested and pressure logged; static pressure; flow; residual pressure</i>
Sprinkler System in building?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Sprinkler design should consider Watercare Level of Service: minimum pressure at 200kPa and minimum flow at 25 l/min. The building owner shall conduct periodic review of sprinkler design.</i>

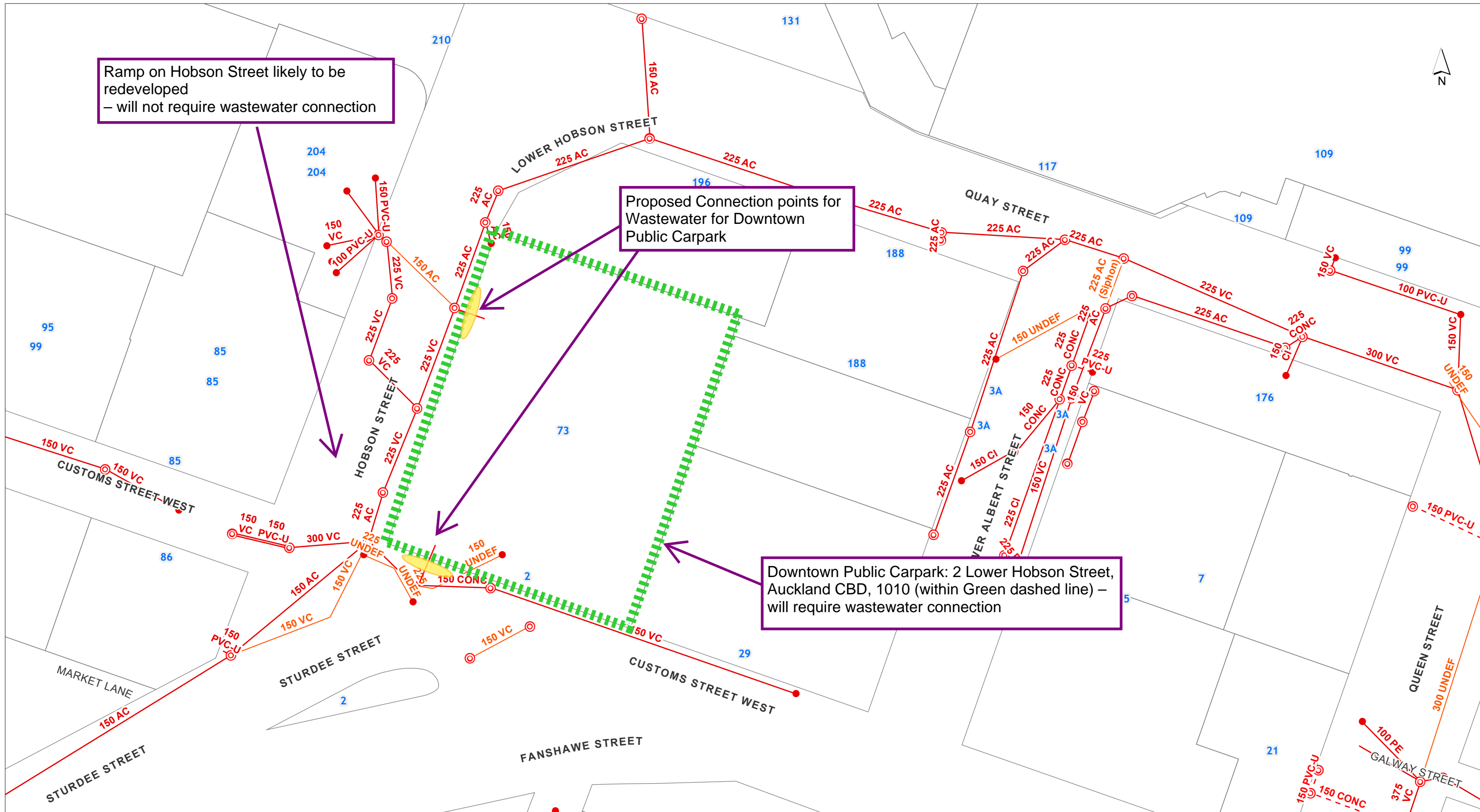
Further Water Supply comments

Refer to Water and Wastewater Code of Practice for Land Development and Subdivision Section 5 Wastewater

Wastewater Development Assessment		
Peak DWF and WWF Residential Design Flows (L/s)	Consent PDWF= 7 l/s Consent PWWF= 13 l/s Calculated PDWF=6.4 l/s Calculated PWWF=12.7l/s	<i>Show calculations based on Watercare CoP. Wastewater Connection 1 estimated flows</i>
Peak DWF and WWF Non-Residential Design Flows (L/s)	Consent PDWF = 7.0 l/s Consent PWWF = 17.7 l/s	<i>Show calculations based on Watercare CoP. Wastewater Connection 2 estimated flows</i>
Non-Residential Discharge Profile / Trend (i.e. Operations)		<i>E.g. 24 hr operation / 10 hr (9am – 5pm) / Other</i>
New Assets Required for Development		<i>If applicable please provide supporting calculations and indicative design parameters (ie. Pump Station and rising main or storage)</i>
Sewer Capacity Check	Refer CON-185299	<i>Capacity assessment at proposed connection point and impact on network</i>
Further Wastewater comments		

For internal Watercare use only

Date Application Received	
Application Ref No.	
Assigned Connections Engineer	
Prior Developer Correspondence with Watercare	
Neighbouring developments to consider in capacity assessment	



Ramp on Hobson Street likely to be redeveloped – will not require wastewater connection

Proposed Connection points for Wastewater for Downtown Public Carpark

Downtown Public Carpark: 2 Lower Hobson Street, Auckland CBD, 1010 (within Green dashed line) – will require wastewater connection

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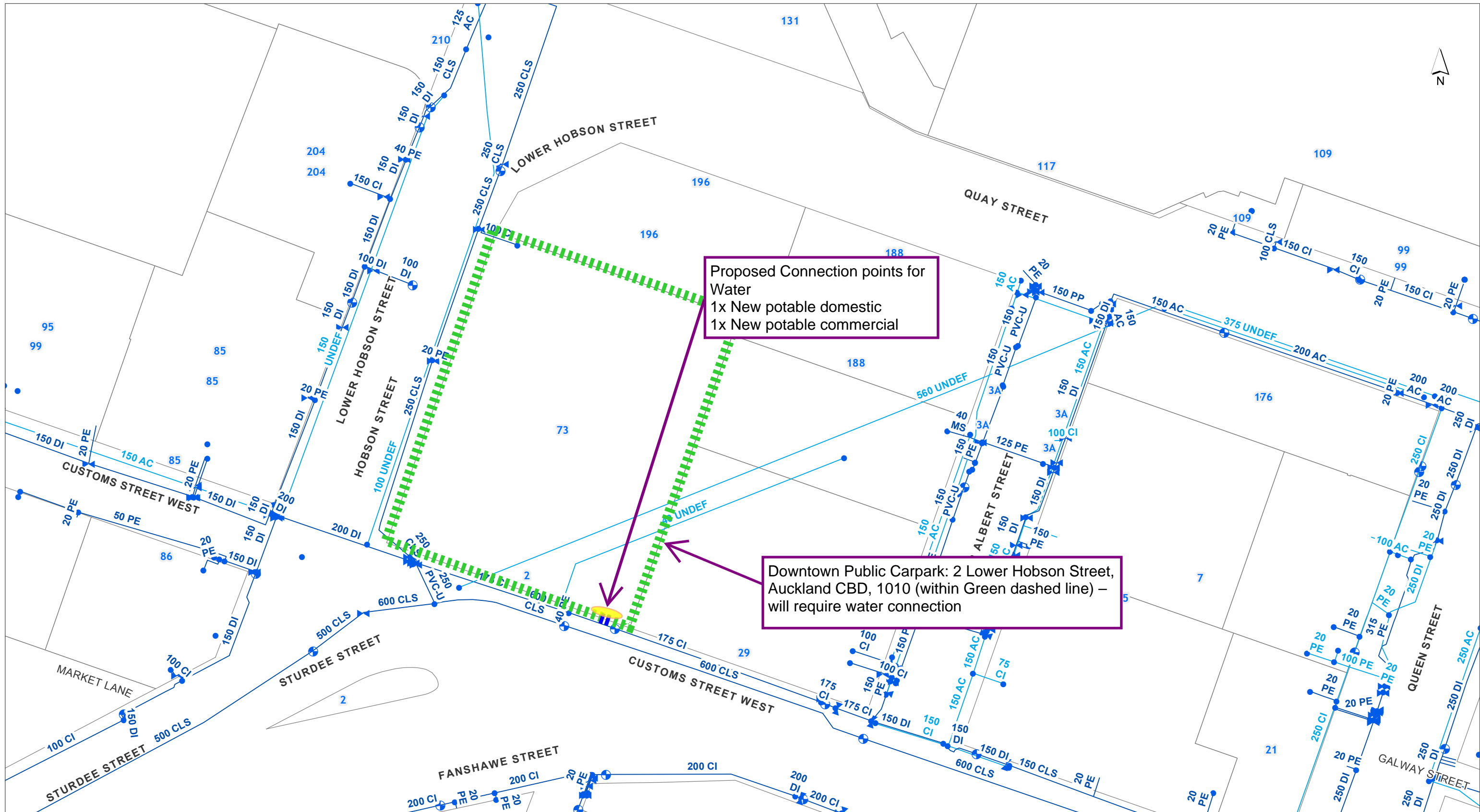
3 - Wastewater Downtown Carpark



Scale @ A3
= 1:1,000

Date Printed:
31/05/2023

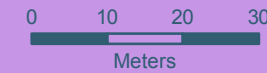




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1 - Water

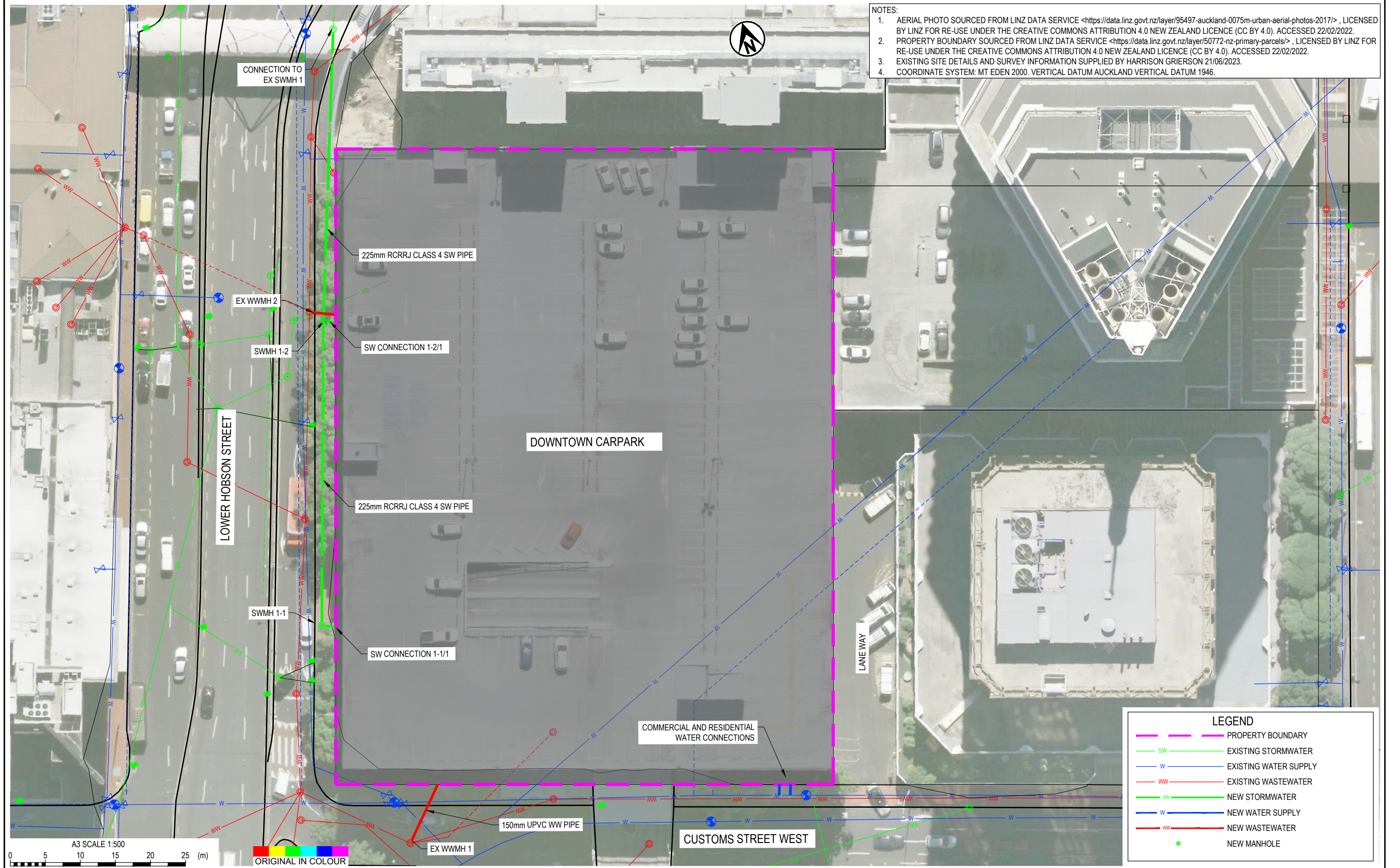
Downtown Carpark



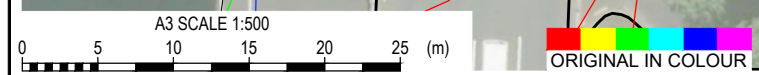
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 = 1:1,000

Date Printed:
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- NOTES:
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 3. EXISTING SITE DETAILS AND SURVEY INFORMATION SUPPLIED BY HARRISON GRIERSON 21/06/2023.
 4. COORDINATE SYSTEM: MT EDEN 2000. VERTICAL DATUM AUCKLAND VERTICAL DATUM 1946.



LEGEND	
	PROPERTY BOUNDARY
	EXISTING STORMWATER
	EXISTING WATER SUPPLY
	EXISTING WASTEWATER
	NEW STORMWATER
	NEW WATER SUPPLY
	NEW WASTEWATER
	NEW MANHOLE

DESIGNED	KS	SEP 23	DRAWING STATUS			
DRAWN	KS	SEP 23				
DESIGN CHECKED	MGM	SEP 23				
DRAWING CHECKED	MGM	SEP 23				
1	90% Consent design	KS	MGM	14.08.2023	NOT FOR CONSTRUCTION	THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED
2	100% Consent design	KS	MGM	8.09.2023		
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE

CLIENT	PRECINCT PROPERTIES NZ LIMITED
PROJECT	DOWNTOWN CARPARK REDEVELOPMENT
TITLE	DRAINAGE DESIGN GENERAL ARRANGEMENT PLAN
SCALE (A1)	1:500
DWG No.	101643.1000-100
REV	2