

16 December 2024

Mayor Ron Mark
Mayor@cdc.govt.nz

Dear Ron

LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT Request: 2024-57

Thank you for your email of 19 November 2024 requesting the following information:

“Can you provide me with a copy of all the correspondence pertaining to the above matter [Lincoln Road 2021 resurfacing project], which should include the following:

- 1. Correspondence, internal and external from residents to CDC staff and councillors”*

Given the public interest in the matter, I advised you the most transparent way to answer your request was under the Local Government Official Information and Meeting Act 1987 (the Act). Accordingly, we are responding to your request as a request of public information.

We identified 6 documents attached as **Appendix A**, that are within scope of your request that are detailed in the table below. I am releasing the 6 documents in part for the reason that some of the information are withheld under section 7(2)(a) of the Act, to protect the privacy of natural persons.

Document number	Date	Title	Decision
1	Letter dated 6 April 2021	Lincoln Road Update	Release in Full.
2	Email: 6 April 2021	Lincoln Road – new culverts and footpath	Released in part. Information has been withheld under section 7(2)(a) of the Act.
3	Email: 24 May 2024	Re: 2021-39 LGOIMA request - Lincoln Rd Attachments: 2021-39 Letter of Response 24 May 21.pdf; RE: Lincoln Road kerb and channel; RE: Lincoln Rd; RE: Lincoln Rd;	Released in part. Information has been withheld under section 7(2)(a) of the Act.

28 Holloway Street, Carterton, Wairarapa | PO Box 9, Carterton, 5743
info@cdc.govt.nz | 06 379 4030 | www.cdc.govt.nz

LGOIMA ID: 2024-57

		Lincoln Rd; Re: Lincoln Rd; RE: Lincoln Road Kerb & Channel; FW: Lincoln Road.; Lincoln Road Kerb & Channel	
4	May 2021 to November 2024	Lincoln Road Service Request Data	Released in part. Information has been withheld under section 7(2)(a) of the Act.
5	26 May 2021	Lincoln Road as-built survey	Release in Full.
6	2 July 2021	Lincoln Road Flood Risk Assessment	Release in Full.

I draw your attention to document 6, a report prepared by Calibre Consulting Limited in July 2021. The report reviews the footpath, and driveway angles and refreshes the flood risk assessment of Lincoln Road following the completion of the road resurfacing. This report does not appear to have been released previously.

Where information has been withheld under section 7(2), I have considered, as required under section 7(1) of the Act, the public interest considerations favouring its release. I have identified no public interest considerations which outweigh the need to withhold information at this time.

Please note, the Council proactively publishes LGOIMA responses on our website. As such, we may publish this response on our website after five working days. Your name and contact details will be removed.

Thank you again for your email. You have the right to ask an Ombudsman to review this decision. You can do this by writing to info@ombudsman.parliament.nz or Office of the Ombudsman, PO Box 10152, Wellington 6143.

Yours sincerely



Geoff Hamilton
Chief Executive
Carterton District Council

28 Holloway Street, Carterton, Wairarapa | PO Box 9, Carterton, 5743
info@cdc.govt.nz | 06 379 4030 | www.cdc.govt.nz

LGOIMA ID: 2024-57

6 April 2021

LINCOLN ROAD UPDATE

Dear resident,

As you will be able to see, progress on the kerb and channel and widening of the section of Lincoln Road near your property is continuing. Aggregate has been laid to re-shape the road contour and when this is complete cement stabilisation will be undertaken and finally a chipseal applied.

We expect this work to be completed within the next three weeks. I apologise for the length of time this has taken to progress the road widening work.

I understand some residents had requested the works be halted so that a redesign of the footpath and kerb heights could be undertaken. A delay and reassessment were considered but on balance officers decided not to delay completing the project to avoid having partially completed works when the winter weather arrives.

However, given there are concerns about the design of some of the works, particularly in relation to the height of the kerb and channelling and footpaths and the possible impact of these on flood risk, we will review the final design once the road surface has been completed.

Document 2

Lincoln Road - new culverts and footpath

s 7(2)(a)

To: russell@cdc.govt.nz
Sent On: Tuesday, April 6, 2021 6:05:15 PM
Archived On: Tuesday, April 6, 2021 6:06:25 PM
Identification Code: eml:91afa1e6-e7c6-4bb8-9627-d63d3d827601-2147429401

Dear Carterton District Council

The new vehicle crossing outside my driveway causes rainwater to flood my section.

The design is wrong, the water flows back into my property at s 7(2) Lincoln Road, instead of along the gutter to the stormwater drain.

This is a huge concern for me .. it has caused my driveway to perish, it makes my fence line soggy, water collects and we have sitting water, that has never in our 60 year ownership, happened before.

I spoke to s 7(2)(a) from SWDC today, he was meeting with Fulton Hogan just along from my property and he could see the problem. When I asked him if a drain would be put in he said he would see what he could do. I hope something is done soon or we will have flooded sections from s 7(2)(a) and s 7(2)(a) Lincoln Road.

It certainly looks like someone has stuffed up. Please rectify this situation.

Yours sincerely

s 7(2)(a)

Owner and Ratepayer
s 7(2)(a) Lincoln Road, Carterton

s 7(2)(a)

Re: Lincoln Road - new culverts and footpath

s 7(2)(a)

To: Russell Keys
Sent On: Wednesday, April 7, 2021 5:34:34 PM
Archived On: Wednesday, April 7, 2021 5:35:13 PM
Identification Code: eml:91afa1e6-e7c6-4bb8-9627-d63d3d827601-2147427486

Hi Russell, my letter was to corroborate my neighbours concerns.

I was hoping it may have been presented at your meeting this morning, but I may have sent it too late.

No meeting required, if the problem could be rectified that would be wonderful.

Regards - s 7(2)(a)

> On 7/04/2021, at 4:39 PM, Russell Keys
<russell@cdc.govt.nz> wrote:

>

> Hi s 7(2)(a)

>

> Thank you for your email yesterday highlighting your concerns over the road works happening outside your property on Lincoln Road. I understand your concerns and have included the appropriate Council Managers in this reply and they will respond to your concerns in due course.

> If you would like to have an in person meeting with myself, council management and other residents please let me know and we will arrange.

>

>

> Nga mihi / Kind regards

> Russell Keys

>

>

> Russell Keys | Councillor | Carterton District Council

> Mobile: [REDACTED] s 7(2)(a) | Email: russell@cdc.govt.nz
> PO Box 9, Carterton 5743 | 28 Holloway Street,
Carterton | Website: www.cdc.govt.nz

>
>
>

> -----Original Message-----

> From: [REDACTED] s 7(2)(a)
> Sent: Tuesday, 6 April 2021 6:05 PM
> To: Russell Keys <russell@cdc.govt.nz>
> Subject: Lincoln Road - new culverts and footpath

>
>

> Dear Carterton District Council

>

> The new vehicle crossing outside my driveway causes
rainwater to flood my section.

>

> The design is wrong, the water flows back into my
property at [REDACTED] s 7(2)(a) Lincoln Road, instead of along the
gutter to the stormwater drain.

>

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driveway to perish, it makes my fence line soggy, water
collects and we have sitting water, that has never in
our 60 year ownership, happened before.

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> I spoke to Tim from SWDC today, he was meeting with
Fulton Hogan just along from my property and he could
see the problem. When I asked him if a drain would be
put in he said he would see what he could do. I hope
something is done soon or we will have flooded sections
from [REDACTED] s 7(2)(a) and [REDACTED] s 7(2)(a) Lincoln Road.

>

> It certainly looks like someone has stuffed
up. Please rectify this situation.

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> Yours sincerely

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> [REDACTED] s 7(2)(a)
> Owner and Ratepayer

- > s 7(2) Lincoln Road, Carterton
- >
- > s 7(2)(a)

RELEASED UNDER LGOMIA

Lincoln Road roadworks

s 7(2)(a)

To: russell@cdc.govt.nz
Sent On: Tuesday, April 6, 2021 10:32:18 PM
Archived On: Tuesday, April 6, 2021 10:33:02 PM
Identification Code: eml:91afa1e6-e7c6-4bb8-9627-d63d3d827601-2147429299

Good morning Russell.

My name is s 7(2)(a) and I live at s 7(2) Lincoln Road. My husband and I built our home in 1980 and have lived here ever since. I write to express my concern over the new kerb and channeling in Lincoln Road between Pembroke Street and Victoria Street.

Viewing the work done to connect the kerb from Pembroke Street you can clearly see that the kerb on Pembroke Street is much lower than that on Lincoln Road and the connecting kerb has been raised to meet the new kerb on Lincoln Road.

The camber of the foot path has changed making it uneven where it meets driveways and is particularly difficult and dangerous for older people on motorised scooters.

I believe that the kerb is now too high and the berms that have been created are on an angle rather than flat to meet the path.

I have concerns that when we experience large rainfall the resulting water will pool in the gardens and driveways on the east side of the road. Added to that the Waikakariki stream runs behind these properties and in the winter the stream fills up with the rain. For myself I am very worried that with pooling at the front and the possible high stream level during heavy rain it will result in my home and my neighbours homes being at risk of flooding. The water will drain into our properties and not into the stormwater system as it should.

Several of us (residents) met with council representatives earlier in the year to voice our concerns and discuss changes we felt should be raised before work continued. My understanding was that they would review the work already done and report back. That has not happened.

We have received notice from Fulton Hogan that the road works will commence this week until the end of the month.

I respectfully ask that the Council Works Committee review the project and keep the residents affected fully informed on the concerns I have raised.

Sincerely

s7(2)(a)

Sent from my iPad

RELEASED UNDER LGOMIA

Document 3

s 7(2)(a)

From: s 7(2)(a)
Sent: Monday, 24 May 2021 4:10 pm
To: s 7(2)(a)
Subject: Re: 2021-39 LGOIMA request - Lincoln Rd
Attachments: 2021-39 Letter of Response 24 May 21.pdf; RE: Lincoln Road kerb and channel; RE: Lincoln Rd ; RE: Lincoln Rd ; Lincoln Rd; Re: Lincoln Rd; RE: Lincoln Road Kerb & Channel; FW: Lincoln road.; Lincoln Road Kerb & Channel

Good afternoon s 7(2)(a)

Please see official letter and supporting documents attached in response to your request received Friday 23rd April, 2021.

In regards to a meeting with Russell Keys as mentioned in your original email, if you would still like to arrange that after receiving this information please email him on: russell@cdc.govt.nz

Ngā mihi,

s 7(2)(a)



s 7(2)(a)

Democratic Services | **CARTERTON DISTRICT COUNCIL**

Phone: 06 379 4030 | Email: s 7(2)(a)

PO Box 9, Carterton 5743 | 50 Holloway Street, Carterton 5713 | Website: www.cdc.govt.nz

--Original email--

From: s 7(2)(a)
Sent: Friday, April 23, 2021 10:06 AM
To: greg@cdc.govt.nz
Subject: Lincoln Road upgrade

Dear Greg

I wish to make a request for information under the Local Government Official Information Act 1987 regarding the new kerb and channeling on Lincoln Road.

I have concerns, along with my neighbours, over the impact this will have on our properties in terms of increased flood risk.

The following is the information I would like:

5. The timeline for the Lincoln Roading upgrade project between Victoria & Pembroke Streets and when it was put into the CDC roading programme?
6. Who was involved in the consultation process in the initial stages and was the GWRC consulted regarding the Waikakariki Stream and the possible impact on flooding?

7. All communication(correspondence) between CDC & Fulton Hogan regarding the Lincoln Road Curb & Channel upgrade including design work completed by CDC or Fulton Hogan.
8. All correspondence between Management and Councillor Steve Cretney and other concerned residents in regards to the Lincoln Road upgrade between Victoria Street & Pembroke Street.

I am happy to meet with you to discuss this request.

I am also requesting a meeting onsite with Russell Keys and residents to discuss the situation.

Kind regards

s 7(2)(a)

s 7
(2) Lincoln Road

Carterton 5713

Sent from my iPad

24 May 2021

s 7(2)(a)

via email: s 7(2)(a)

LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT REQUEST

Thank you for your request received on Friday 23rd April 2021. Please find below information relevant to your request, which we have released under the Local Government Official Information and Meetings Act 1987.

1. The timeline for the Lincoln Roading upgrade project between Victoria & Pembroke Streets and when it was put into the CDC roading programme?
It was included in the 2019/20 CDC roading programme.
2. Who was involved in the consultation process in the initial stages and was the GWRC consulted regarding the Waikakariki Stream and the possible impact on flooding?
The work was a road widening, kerb, and channelling. GWRC were not involved.
3. All communication(correspondence) between CDC & Fulton Hogan regarding the Lincoln Road Curb & Channel upgrade including design work completed by CDC or Fulton Hogan.
Communication attached.
4. All correspondence between Management and Councillor Steve Cretney and other concerned residents in regards to the Lincoln Road upgrade between Victoria Street & Pembroke Street.
Communication attached.

Attachments included:

Date	Type	Subject
22 Jan 21	Email x 3 – Dave Gittings	Att 1: Lincoln Rd kerb and channel
13 Aug 20	Email – Dave Gittings	Att 2: Lincoln Rd
13 Aug 20	Email – Dave Gittings	Att 3: Lincoln Rd
9 Oct 20	Email – Dave Gittings	Att 4: Lincoln Rd
2 Apr 21	Email – Dave Gittings	Att 5: Lincoln Rd
24 Jun 20	Email – JP Irwin	Att 6: Lincoln Rd kerb & channel
19 Mar 20	Email – JP Irwin	Att 7: Lincoln Rd
24 Jun 20	Email - JP Irwin	Att 8: Lincoln Road kerb & channel

You have the right to seek a review of our response/these decisions by way of complaint to the Ombudsman, under section 27(3) of the Local Government Official Information and Meetings Act 1987.

Yours sincerely



Blair King
Interim Chief Executive

From: Dave Gittings
Sent: Friday, 22 January 2021 3:50 pm
To: Steve Cretney
Subject: RE: Lincoln Road kerb and channel

We can look at how best to smooth out the footpaths

From: Steve Cretney <steve@cdc.govt.nz>
Sent: Friday, 22 January 2021 3:42 PM
To: Dave Gittings <dave.gittings@cdc.govt.nz>
Subject: Re: Lincoln Road kerb and channel

Hi Dave,

I do not see how it can make sense, in regards to the footpaths. They are unacceptable.

Considering footpaths are a big issue raised by ratepayers, are you happy to sign off on those and say they are of an acceptable standard, compared to 99% of footpaths around town.

Yes, the road once completed will no doubt be fine, apart from what the completed height of the road will be. That is still an unknown!

My concern with the scope and design, is where is it? FH's guy could not even remember seeing a scope or design and he was the main person working on the project.

Regards, Nga mihi
Steve

STEVE CRETNEY | COUNCILLOR | CARTERTON DISTRICT COUNCIL

s 7(2)(a) | Mobile: 021 796401 |

Email: steve@cdc.govt.nz

P.O. Box 9, Carterton 5743 | 28 Holloway St, Carterton

Website: <http://www.cdc.govt.nz>

Charles Rook Carter Awards

The Carterton District Council's Charles Rooking Carter Awards is
to publicly acknowledge and celebrate the volunteer work
achievements of members within our community.
NOMINATIONS ARE NOW OPEN FOR ALL A

From: Dave Gittings
Sent: 22 January 2021 15:32
To: Steve Cretney
Subject: RE: Lincoln Road kerb and channel

Hi Steve,

I think once the roading is completed it will make more sense.

I'm not in favour of waiting any longer to complete the work and going back over the design brief is going to change what is there now.

From: Steve Cretney <steve@cdc.govt.nz>
Sent: Friday, 22 January 2021 3:29 PM
To: Dave Gittings <dave.gittings@cdc.govt.nz>
Cc: Michael.Chadderton@fultonhogan.com; Jane Davis <jane.davis@cdc.govt.nz>; Greg Lang <gregl@cdc.govt.nz>
Subject: Re: Lincoln Road kerb and channel

Hi Dave,

Thanks for your email. I was beginning to wonder if Michael was going to get back in touch with you.

After the meeting had concluded last year, I knew the concrete Waikakariki Stream pipe would come back as the reasoning.

Is Michael or yourself able to forward the original design & scope, which I am guessing was completed by JP?

It is very concerning to me, that Michael's suggestion of 3 x 600mm pipes (most logical idea) was not even considered in the original design concepts by a specialized roading engineer, especially knowing how high the completed kerb n channel would need to be, to get over the new concrete pipework and working out how difficult it would be to complete flat level footpaths into new driveway entrances. Not forgetting to mention the ridiculously high angled grass berms that have been created as well.

Considering FH added another 2 or 3 sections of large concrete pipe to the existing Waikakariki pipework so it extended from the edge of the road, to the boundary fence of the property, it just does not make sense, that a design for replacing the existing sections with smaller 600mm pipes was not considered. It would've then only required new 600mm sections to be installed under the existing road surface.

Whilst having the road completed in a timely fashion would be advantageous to everyone, the work should've never gone ahead in the first place. It is totally unacceptable to insist ratepayers agree to FH completing the proposed work, when it is sub-standard.

If the best possible outcome is not achievable due to lack of available funds, might I suggest the work is postponed until it can be completed within budget constraints and the newly completed work is removed and it is put back to how it was, prior to the work commencing.

Obviously that will be a Council decision and I will not partake in that discussion but I will contact those residents living adjacent and ask for their feedback.

I must reiterate though, the impacted residents were happy with their existing driveway entrances and footpath, compared to what is there now.

Regards, Nga mihi

Steve

Email: steve@cdc.govt.nz

P.O. Box 9, Carterton 5743 | 28 Holloway St, Carterton

Website: <http://www.cdc.govt.nz>



From: Dave Gittings
Sent: 22 January 2021 14:18
To: Steve Cretney
Subject: FW: Lincoln Road kerb and channel

Hi Steve,

After our meeting last year we established that the height of the curb and channel was dictated by the culvert that is creating the high point along that stretch of Lincoln Road. The raised section is quite easy to see if you look along the road and you are no doubt aware of it and takes the Waikakariki Stream. The existing culvert has a minimal coverage of roading material over it forcing the height at that point and also setting the height at the Pembroke Street end to be marginally higher. From the culvert point on, the height can be taken down at a greater rate but the culvert is the confining factor on the curb and channel.

To change this the culvert would need to be replaced and I asked Michael to give a price estimate to do this. He has replied (below) with a cost that we cannot absorb from the existing roading budget. At this point it would be preferable to go ahead with the planned resealing of the road which is programmed in for March with FH.

Dave

From: CHADDERTON, Michael <Michael.Chadderton@fultonhogan.com>
Sent: Monday, 18 January 2021 3:46 PM
To: Dave Gittings <dave.gittings@cdc.govt.nz>
Cc: S 7(2)(a) HARP, Jeremy <Jeremy.Harp@fultonhogan.com>
Subject: Lincoln Road kerb and channel

Good Afternoon Dave

Following on from the site meeting I report as follows

1. Existing design.

The existing roadway and kerb has been surveyed. The 900mm dia culvert between houses 35 and 37 appear to be the design constraint.

There is minimal cover over this culvert pipe.

No other constraints are obvious at this time ie other utilities.

2. Alternative design

This culvert and the one further down the road could be lowered by replacing each culvert with 3 x 600mm dia culverts. This gives a similar water flow capacity.

The kerb and channel could then be lowered and the road strengthened by undercutting and backfilling.

The full length footpath could also be replaced at this time.

The estimated additional cost to that already budgeted would be \$172,000.

This does include replacing \$40,000 worth of work (replacing the K&C and footpath sections) already completed.

The estimate is made in good faith, utility services would have to be confirmed (including telecom) prior to finalization.

Regards

Michael

Michael Chadderton | Ruamahanga Roads Contract Manager **Fulton Hogan Ltd** | Buchanan Place, Masterton.
PO Box 853 Masterton | Phone +64 6377 7315 | Fax +64 6377 7493 | Mobile +64 27 242 6464 | Web
www.fultonhogan.com

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How can I do it safely?

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RELEASED UNDER LGOMIA

From: Dave Gittings
Sent: Thursday, 13 August 2020 11:50 am
To: Steve Cretney; Councillors
Cc: Jane Davis
Subject: RE: Lincoln Rd

Morning Steve,

The kerb is at the correct height to be tied in with the existing kerb and channel at Pembroke and Victoria Streets and the fall of the land. JP has checked the kerb height and it is correct.

The existing centre of the road height change will be negligible (by an asphalt layer). The mid/high point of the road will move to the east to be in the centre of the new widened road. The camber of road will then match in to the kerb lip.

The existing berm level was quite a bit lower than current road level which makes the kerb look high.

We are holding off completion of this section of the road until we can get a camera down the waste pipe along the 300 plus meter stretch (should be coming next week). The last downpour we had we noticed an increased I & I flow and want to get that sorted before laying a new road surface and risk having to dig it up.

Dave

From: Steve Cretney <steve@cdc.govt.nz>
Sent: Wednesday, 12 August 2020 9:03 AM
To: Dave Gittings <dave.gittings@cdc.govt.nz>; Councillors <Councillors@cdc.govt.nz>
Subject: Lincoln Rd

Good morning Dave,

Not good news last night about community transmission. Fingers crossed we don't head into Level 4.

I am emailing you as an extremely concerned resident and Councillor.

When the new kerb & channel was being completed a few weeks ago, I was concerned at the height it was being installed.

Apparently when the road resurfacing is undertaken, Fulton Hogan will be raising the level of the centre of the road considerably.

My concerns with this aspect of the work are as follows:

- When we applied for our building permit to build our home in 2006, we had to agree to our floor level being 200mm above the centre of the road, to help negate possible floodwater entering our home, from the Waikakariki Stream. What will be the completed height of the new road surface?

- The added height to the centre of the road will cause floodwater from the Waikakariki Stream, to pond in the roadside properties to the West & East of Lincoln Rd.
- The new height of the kerbing makes the road berm extremely steep which just exacerbates the issue mentioned above.

The driveway entrances were then completed into the Eastern properties.

My concerns with this aspect of the work are as follows:

- The existing concrete footpaths have been cut in certain positions to allow for the entries to join into them. Some of the footpaths existing concrete joins are extremely close to the new cuts. These short sections should've been removed as well which would've lowered the angle of the concrete adjoining it.
- The new angled driveway entries (where they meet the existing footpaths) are extremely hazardous for anyone using them, especially elderly on foot or on motorised scooters.
- When the water table is at its highest, the angled berms and angled entries will create ponding along the footpaths

I am not sure who gave Fulton Hogan the scope of works or if they even had one going by the completed work so far.

The existing footpaths should've been removed and replaced at the same time, so they were more in line with the new driveway entrances.

I have received feedback from other concerned residents as well. I hope our team can look into the issues.

Regards, Nga mihi
Steve

STEVE CRETNEY | COUNCILLOR | CARTERTON DISTRICT COUNCIL

s 7(2)(a) | Mobile: 021 796401 | Email: steve@cdc.govt.nz

P.O. Box 9, Carterton 5743 | 28 Holloway St, Carterton

Website: <http://www.cdc.govt.nz>

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www.cdc.govt.nz/ourfuture

From: Dave Gittings
Sent: Thursday, 13 August 2020 1:54 pm
To: Steve Cretney; Councillors
Cc: Jane Davis
Subject: RE: Lincoln Rd

Hi Steve,
I understand that those small sections of concrete will be removed but not until the crossings are ready to be re-established to keep the mess to the least amount.
Dave

From: Steve Cretney <steve@cdc.govt.nz>
Sent: Thursday, 13 August 2020 1:49 PM
To: Dave Gittings <dave.gittings@cdc.govt.nz>; Councillors <Councillors@cdc.govt.nz>
Cc: Jane Davis <jane.davis@cdc.govt.nz>
Subject: Re: Lincoln Rd

Hi Dave,

Thanks for your email.

Can you comment on the state of the footpaths?

Regards, Nga mihi
Steve

STEVE CRETNEY | COUNCILLOR | CARTERTON DISTRICT COUNCIL
s 7(2)(a) Mobile: 021 796401 | Email: steve@cdc.govt.nz
P.O. Box 9, Carterton 5743 | 28 Holloway St, Carterton
Website: <http://www.cdc.govt.nz>

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The existing berm level was quite a bit lower than current road level which makes the kerb look high.

We are holding off completion of this section of the road until we can get a camera down the waste pipe along the 300 plus meter stretch (should be coming next week). The last downpour we had we noticed an increased I & I flow and want to get that sorted before laying a new road surface and risk having to dig it up.

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- When we applied for our building permit to build our home in 2006, we had to agree to our floor level being 200mm above the centre of the road, to help negate possible floodwater entering our home, from the Waikakariki Stream. What will be the completed height of the new road surface?
- The added height to the centre of the road will cause floodwater from the Waikakariki Stream, to pond in the roadside properties to the West & East of Lincoln Rd.
- The new height of the kerbing makes the road berm extremely steep which just exacerbates the issue mentioned above.

The driveway entrances were then completed into the Eastern properties.

My concerns with this aspect of the work are as follows:

- The existing concrete footpaths have been cut in certain positions to allow for the entries to join into them. Some of the footpaths existing concrete joins are extremely close to the new cuts. These short sections should've been removed as well which would've lowered the angle of the concrete adjoining it.
- The new angled driveway entries (where they meet the existing footpaths) are extremely hazardous for anyone using them, especially elderly on foot or on motorised scooters.
- When the water table is at its highest, the angled berms and angled entries will create ponding along the footpaths

I am not sure who gave Fulton Hogan the scope of works or if they even had one going by the completed work so far.

The existing footpaths should've been removed and replaced at the same time, so they were more in line with the new driveway entrances.

I have received feedback from other concerned residents as well. I hope our team can look into the issues.

Regards, Nga mihi

Steve

STEVE CRETNEY | COUNCILLOR | CARTERTON DISTRICT COUNCIL

s 7(2)(a)

| Mobile: 021 796401 | Email: steve@cdc.govt.nz

P.O. Box 9, Carterton 5743 | 28 Holloway St, Carterton

Website: <http://www.cdc.govt.nz>

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www.cdc.govt.nz/ourfuture

RELEASED UNDER OIA

From: Steve Cretney
Sent: Friday, 9 October 2020 12:06 pm
To: Dave Gittings
Subject: Lincoln Rd

Hi Dave,
I see you are on leave at the moment. I hope you have an enjoyable break and manage to enjoy a few tasty craftbeers and whiskeys.

Upon your return, are you able to provide a few options for potential meeting dates/times, in regards to arranging a suitable time with those residents in Lincoln Rd & Kupe Dr, concerned about the kerbing & channel height, so as many as possible can attend a meeting in person.

Regards, Nga mihi
Steve

STEVE CRETNEY | COUNCILLOR | CARTERTON DISTRICT COUNCIL
s 7(2)(a) | Mobile: 021 796401 | Email: steve@cdc.govt.nz
P.O. Box 9, Carterton 5743 | 28 Holloway St, Carterton
Website: <http://www.cdc.govt.nz>



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From: Dave Gittings
Sent: Friday, 2 April 2021 11:41 am
To: Steve Cretney; Jane Davis; Greg Lang
Cc: Councillors
Subject: Re: Lincoln Rd

Morning Steve,

I can get a letter to them Tuesday and I was planning on doing that this week but events overtook me. Metalling is scheduled to Tuesday to reform the road with cement stabiliser and chip seal to follow within a couple of weeks.

The letter can provide them with an assurance the footpaths will be reviewed when the road widening is completed.

Dave

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: Steve Cretney <steve@cdc.govt.nz>
Date: 1/04/21 10:34 PM (GMT+12:00)
To: Jane Davis <jane@cdc.govt.nz>, Dave Gittings <daveg@cdc.govt.nz>, Greg Lang <gregl@cdc.govt.nz>
Cc: Councillors <Councillors@cdc.govt.nz>
Subject: Lincoln Rd

Good evening,

In January/March of this year, management made the decision to continue the Lincoln Road upgrade through to completion (e.g. new Kerb, Channel, driveway entrances and new roading).

I think it would be prudent to send a letter notifying residents living on Lincoln Rd between Victoria & Pembroke Streets and also those residents living on the Western Side of Kupe Drive of the above decision and also advise them a review would be completed, to ascertain if the issues raised earlier are still present.

The letter may also need to point out, if the Waikakariki Stream is running through their property, regular stream bed maintenance is actually their responsibility, not GWRC's and guidance may need to be provided in regards to cleaning it.

Regards, Nga mihi
Steve

STEVE CRETNEY | COUNCILLOR | CARTERTON DISTRICT COUNCIL

s 7(2)(a) | Mobile: 021 796401 |

Email: steve@cdc.govt.nz

P.O. Box 9, Carterton 5743 | 28 Holloway St, Carterton

Website: <http://www.cdc.govt.nz>

HAVE YOUR SAY IN OUR DRAFT TEN YEAR PLAN 2021-31 BY 19 APRIL



[CDC.GOVT.NZ/TENYE](https://www.cdc.govt.nz/tenyear)

RELEASED UNDER

From: Jean-Paul Irwin
Sent: Wednesday, 24 June 2020 9:13 am
To: GREAVES, Desmond
Cc: CHADDERTON, Michael; HARP, Jeremy; O'BRIEN, Dean
Subject: RE: Lincoln Road Kerb & Channel

Morning Des,

Thank you for the record from yesterday.

The lowering is a design adjustment from when the preliminary survey was done a couple of weeks ago and it was said the levels will work based on a 100mm overlay at the highest point. (thought I should clarify that)

I'll go for a look in about an hour.

Agreed, that the pavement rehabilitation will be a different approach, this can be discussed with the pavement designer at our meeting on Thursday.

Regards,

JP

Network Operations



A joint roading venture with Carterton and South Wairarapa District Councils

06 3794096
Cell 027 5728232

From: GREAVES, Desmond <Desmond.Greaves@fultonhogan.com>
Sent: Wednesday, June 24, 2020 8:57 AM
To: Jean-Paul Irwin <jpirwin@cdc.govt.nz>
Cc: CHADDERTON, Michael <Michael.Chadderton@fultonhogan.com>; HARP, Jeremy <Jeremy.Harp@fultonhogan.com>; O'BRIEN, Dean <Dean.O'Brien@fultonhogan.com>
Subject: Lincoln Road Kerb & Channel

Hi JP

Further to our meeting on site 23/6/2020. Levels for the Kerb & Channel have been lowered as requested, and is now ready for your inspection and approval.

Pembroke Street end – first 5 metres of channel will fall towards Pembroke St sump. Remainder of Kerb and channel will fall towards Victoria Street at 0.5% over 80m then 1% over remaining 120m to tie in with existing kerb & Channel. Grate to be install over culvert pipe as discussed.

Reduced levels will not allow for a uniform 100mm overlay on the road, with Road cross fall needing to be adjusted outside the normal 3% when Pavement Rehabilitation is completed later in the year

Cheers

Des

RELEASED UNDER LGOM/A

From: GREAVES, Desmond <Desmond.Greaves@fultonhogan.com>
Sent: Wednesday, 24 June 2020 8:57 am
To: Jean-Paul Irwin
Cc: CHADDERTON, Michael; HARP, Jeremy; O'BRIEN, Dean
Subject: Lincoln Road Kerb & Channel

Hi JP

Further to our meeting on site 23/6/2020. Levels for the Kerb & Channel have been lowered as requested, and is now ready for your inspection and approval.

Pembroke Street end – first 5 metres of channel will fall towards Pembroke St sump. Remainder of Kerb and channel will fall towards Victoria Street at 0.5% over 80m then 1% over remaining 120m to tie in with existing kerb & Channel. Grate to be install over culvert pipe as discussed.

Reduced levels will not allow for a uniform 100mm overlay on the road, with Road cross fall needing to be adjusted outside the normal 3% when Pavement Rehabilitation is completed later in the year

Cheers

Des

Des Greaves | Construction Manager | [Fulton Hogan Ltd](#) | 2 Buchanan Place | PO Box 853, Masterton, 5840, New Zealand | Ext 6739 | Phone +64 6 377 7739 | Fax +64 6 377 7493 | Mobile +64 27 257 2557 | Web www.fultonhogan.com

From: Jean-Paul Irwin
Sent: Thursday, 19 March 2020 8:09 am
To: O'BRIEN, Dean
Cc: Bill.Chadwick@downer.co.nz
Subject: FW: Lincoln road.
Attachments: RCA letter.pdf; JT 253911 Proposed plans.pdf

Got this to sign and send back which I'll get done today.

JP
Network Operations



A joint roading venture with Carterton and South Wairarapa District Councils

06 3794096
Cell 027 5728232

From: Bill Chadwick <Bill.Chadwick@downer.co.nz>
Sent: Thursday, March 19, 2020 7:58 AM
To: Jean-Paul Irwin <jpirwin@cdc.govt.nz>
Subject: FW: Lincoln road.

Please find attached the plans and costs to divert the Chorus cabling for the culvert upgrades as requested. Could you fill out and sign page 3 and return with a copy of your purchase order

Thanks

Bill Chadwick
Senior Designer
New Zealand



T | +6445626606 M | +64272695307
E | Bill.Chadwick@downer.co.nz

14-16 Makaro St, Porirua
Wellington 5022

www.downergroup.co.nz
www.downercareers.co.nz



Think before you print

From: DATT, Hishal [<mailto:Hishal.Datt@fultonhogan.com>]
Sent: Monday, 9 March 2020 2:36 p.m.
To: Bill Chadwick <Bill.Chadwick@downer.co.nz>
Cc: O'BRIEN, Dean <Dean.O'Brien@fultonhogan.com>; CHADDERTON, Michael <Michael.Chadderton@fultonhogan.com>; JP Irwin <jpirwin@cdc.govt.nz>; HARP, Jeremy <Jeremy.Harp@fultonhogan.com>
Subject: RE: Lincoln road.

[External Email] This email was sent from outside the organisation – be cautious, particularly with links and attachments.

Hi Bill,

Attached are sketch plans of the two spot for culvert replacement. Shifting/Relocation of the cable should be invoiced to the council, Jean Paul is the network Engineer for CDC and will look after your claims. He's email address is jpirwin@cdc.govt.nz

Please contact us if in doubt.

Thanks

From: HARP, Jeremy <Jeremy.Harp@fultonhogan.com>
Sent: Monday, March 9, 2020 6:32 AM
To: DATT, Hishal <Hishal.Datt@fultonhogan.com>
Cc: O'BRIEN, Dean <Dean.O'Brien@fultonhogan.com>; CHADDERTON, Michael <Michael.Chadderton@fultonhogan.com>
Subject: FW: Lincoln road.

Morning Guys

Can we catch up after the Tailgate Meeting this Morning (K&C Jobs) and also we have a site Visit at Lincoln rd. at 9 . 30 am with Bill

Thanks

From: Bill Chadwick <Bill.Chadwick@downer.co.nz>
Sent: Thursday, 5 March 2020 11:04 AM
To: HARP, Jeremy <Jeremy.Harp@fultonhogan.com>
Subject: RE: Lincoln road.

How does Monday 09/03/20 around 9.30 – 10.00 am sound

Bill Chadwick
Senior Designer
New Zealand



T | +6445626606 M | +64272695307
E | Bill.Chadwick@downer.co.nz

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Wellington 5022

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From: HARP, Jeremy [<mailto:Jeremy.Harp@fultonhogan.com>]
Sent: Thursday, 5 March 2020 8:33 a.m.
To: Bill Chadwick <Bill.Chadwick@downer.co.nz>
Cc: O'BRIEN, Dean <Dean.O'Brien@fultonhogan.com>; DATT, Hishal <Hishal.Datt@fultonhogan.com>; CHADDERTON, Michael <Michael.Chadderton@fultonhogan.com>
Subject: RE: Lincoln road.

[External Email] This email was sent from outside the organisation – be cautious, particularly with links and attachments.

Morning Bill

How are we looking for a site Visit to Lincoln Rd Site ?

Thanks Jocko

From: Bill Chadwick <Bill.Chadwick@downer.co.nz>
Sent: Wednesday, 26 February 2020 9:12 AM
To: HARP, Jeremy <Jeremy.Harp@fultonhogan.com>
Subject: Lincoln road.

Jeremy

Can you please supply the address where you are doing this work, an if possible a copy of a plan of your proposal

thanks

Bill Chadwick
Senior Designer
New Zealand



T | +6445626606 M | +64272695307
E | Bill.Chadwick@downer.co.nz

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Wellington 5022

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Porirua 5022
New Zealand



CHORUS

Ph:
Fax:
Mobile: 027 269 5307
Email: bill.chadwick@downer.co.nz

Our Reference: 253911
Your Reference:

Date: 19/03/2020

Carterton District Council
Holloway Street
PO Box 9
Carterton 5743

Attn: J.P.Irwin

RE: Roadworks at CI: Lincoln Road (Drainage renewals Carterton District council)

Project Title & Scope of Work:

Relocate cables for culvert works at 37 & 47 Lincoln Road

Further to your request for Chorus to relocate/replace/protect Chorus plant due to the proposed roadwork, our estimated cost to you to carry out this work is \$9027.49 excl. GST. This price is valid for Sixty days and excludes any Chorus betterment.

Chargeable Work to be undertaken:

At both addressess, locate cable on both sides of open drain. Run out a short interruption cable around council work area and joint to existing cable.

Supply 50mm duct to council contractor to install over culvert pipe. It is anticipated that a minimum cover of 350 to 400mm will be maintained over the duct.

Once it is installed, then rerun cable through duct and rejoin.

This is an estimated cost only. Under section 147B of the Telecommunications Act 2001, you will be charged 100% of actual cost upon completion of the work. If there are any variations to the above estimate once work has started, I will contact all parties to discuss. We will reconfirm the final costs prior to any billing actions.

Traffic management has not been included in the price.

Assumptions:

All trenching and any traffic management will be supplied by the council contractor at no cost to Chorus A minimum finished cover of 350 to 400mm will be maintained over the duct. If the cover is less than this, a concrete capping will be required to prevent future damage.

Timing:

We will liaise with your contractor to install the temporary interruption cables once the signed acceptance form and purchase order has been returned.

At the same time we will supply the duct for the permanent solution to be laid by your contractor.

Conditions:

Please confirm your acceptance of these costs in writing by completing the attached return slip, ensuring the following information for the person/business who will receive the invoice for the work is included:

- Your Order Number AND **a copy of that Order.**

Your Order must be made out to Chorus:	Accounts Receivable Chorus New Zealand Limited PO Box 632 WELLINGTON 6140
	Attn: Linda Garay

- Details of person/organisation to receive the 'Roadworks' account (as per your Order):
- Full name of Organisation
- Full name of contact person
- Mailing Address
- Phone number
- Email address

NOTE: Our work will not commence until we have received written confirmation via the return slip of the acceptance (preferably by email) of the costs (and a copy of the associated Order) and the above associated details.

Please also ensure the person accepting the costs is authorised to do so.

Please do not hesitate to call me and discuss this work if you have any questions.

Yours faithfully
Bill Chadwick
Designer

ROADWORKS ACCEPTANCE RETURN SLIP

RETURN TO:

Downer NZ Ltd
 14-16 Makaro Street, Elsdon
 Porirua 5022
 New Zealand



Attn:

Ph: 0
 Fax: 0
 Mobile: 027 269 5307
 Email: bill.chadwick@downer.co.nz

Our Reference: 253911
 Your Reference: 0

Date:

Carterton District Council
 Holloway Street
 PO Box 9
 Carterton 5743

Attn:

RE: Roadworks at CI: Lincoln Road (Drainage renewals Carterton District council)

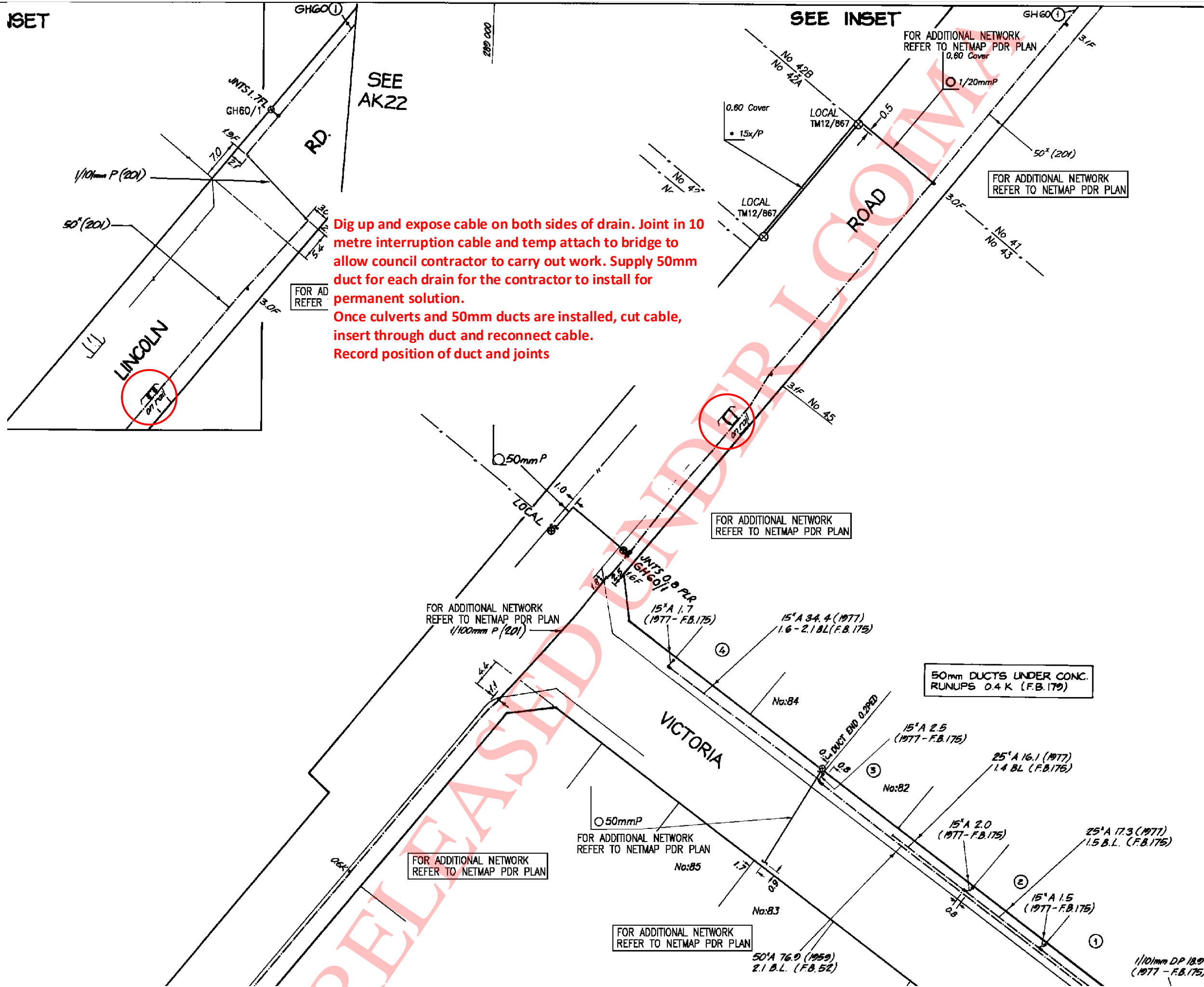
I, the undersigned, am authorised to accept the cost of \$9027.49 excl. GST on behalf of Carterton District Council, for the relocation/protection/replacement of Chorus plant for the above Roadworks Project, and my details are as follows:

Order Number:		<input checked="" type="checkbox"/>	Copy of Order attached* (made out to Chorus)
Road controlling Authority:			
Mailing Address:			
Authorisers Name:			
Position:			
Contact Phone Number:			
Email address:			
Signature:			
Date:			

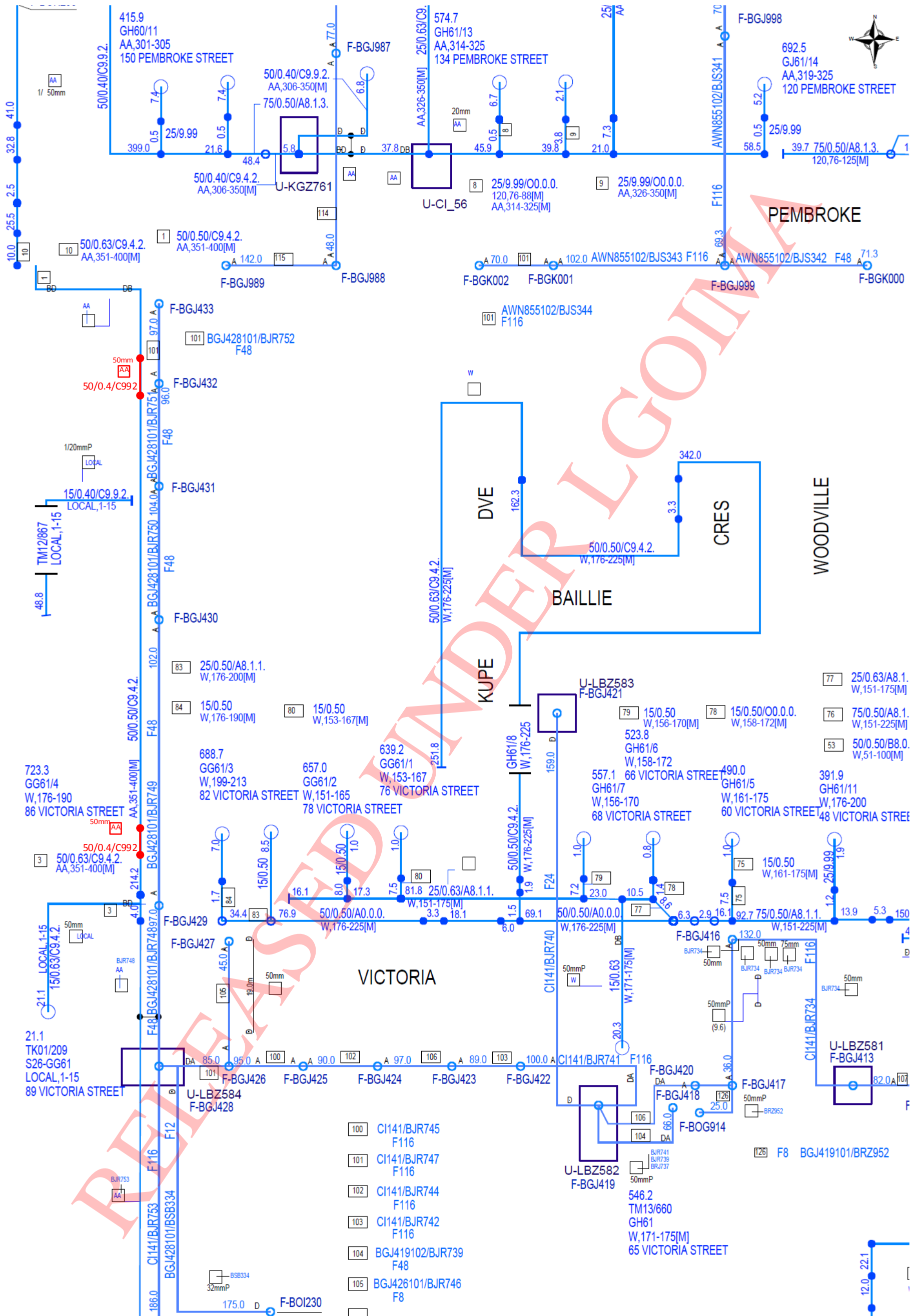
Please complete and return to the sender as detailed above, preferably via email.

***NOTE:** Our work will not commence until we have received written confirmation via this completed return slip of the acceptance of the costs/proposal and a copy of the associated Order (made out to Chorus)
Please also ensure the person accepting the costs is authorised to do so.

ISSET



Dig up and expose cable on both sides of drain. Joint in 10 metre interruption cable and temp attach to bridge to allow council contractor to carry out work. Supply 50mm duct for each drain for the contractor to install for permanent solution. Once culverts and 50mm ducts are installed, cut cable, insert through duct and reconnect cable. Record position of duct and joints



JobTrak #	253911	CoINS #	20780.2126	Designer	Bill Chadwick	Date	12/03/20	Page	2
Project:	CI: 37 & 47 Lincoln Road, Carterton, Roadworks			Plan Title:	Cut of CI 24				



37 Lincoln road



Dig up and expose cable on both sides of drain. Joint in 10 metre interruption cable and temp attach to bridge to allow council contractor to carry out work. Supply 50mm duct for each drain for the contractor to install for permanent solution. Duct should have 400mm cover minimum. If less than that, contractor to supply concrete slabs for protection
 Once culverts and 50mm ducts are installed, cut cable, insert through duct and reconnect cable.
 Record position of duct and joints

47 Lincoln road



JobTrak #	253911	COiNS #	20780.2126	Designer	Bill Chadwick	Date	12/03/20	Page	3
Downer	Project:	CI: 37 & 47 Lincoln Road, Carterton, Roadworks			Plan Title:	Cut of CI 24			

May 2021	5/14/2021	Lincoln road	blocked sewer
February 2022	2/14/2022	Lincoln Road	raw sewerage through property, drain bubbling and spewing water
February 2022	2/14/2022	lincoln road (corner lincoln, brooklyn)	the sewer manhole has be pushed off by the pressure of flow. The problem is the quantity of sewerage on the road and foot path. I am sure you are aware of this, but it is not very well marked off given the extend of the sewerage. I have put a whole heap of road cones around it to mark it off (Elite Drainage's as they are working on my property - please don't remove :)) so people wont walk through it. Three questions 1. Is marking if off enough, could we have some signage down there to warn people that it is raw sewerage? 2. what else can be done? 3. There is clear evidence of sewerage on the ground. What is the clean up when the water has gone down? I know you guys are pretty busy at the moment. when you get a change it would be good to know the best way to deal with this. thanks
February 2022	2/16/2022	lincoln road	sewerage has stopped flowing, please access the area for cleaning
February 2022	2/16/2022	Lincoln Road	Withheld s7(2)(a) has called in following all the recent rain and problems with the sewage, she has had sewage running along the side of her house. She would like to discuss the cleanup process.
February 2022	2/25/2022	Lincoln Road	nasty trip hazard on the concrete outside Lincoln Road, resident tripped resulting in large gash on head. Do not call resident before 10am
March 2022	3/24/2022	by lincoln road	flooding, not sure if from stormwater drain or the stream
April 2022	4/11/2022	Lincoln Road	I'd like to make a complaint about Lincoln road tracking mud onto the carriageway, it's dangerous, especially for cyclist. not sure if part of works for the signs set out, if it is then Sheppard TM is the STMS.
April 2022	4/21/2022	Lincoln Rd	Found water outage in letterbox for Asking about if it is still valid. Withheld s7(2)(a) says shut-down happened on 20th.
April 2022	4/26/2022	Lincoln Road	Water leak at toby
June 2022	6/13/2022	Corner Dalefiled and Lincoln Road	sewer blocking up
June 2022	6/22/2022	Lincoln Road	Flooding issues on property possibly due to the subdivision being put in next door. Refer email.
July 2022	7/12/2022	Lincoln Road	Withheld s7(2)(a) has just been in - they had issues last time and the toilet is doing the same thing - paper is up to the grate on the drain out the back and about to overflow. She has told the kids to stop using the toilet. We organised a portaloos last time can they get that again please????
July 2022	7/12/2022	Lincoln Road	Withheld s7(2)(a) from 181 Lincoln Road has phoned their toilet is running high/overflowing following the rain. Same issue as the last time Carterton had flooding issues. He would like some of the bags we supplied him with last time !!!!!.
July 2022	7/21/2022	Lincoln Road	toilet wont flush, could be sewer issue
July 2022	7/21/2022	Lincoln Road	toilet is backing up again.
August 2022	8/30/2022	Miles Lane off Lincoln Road - map attached	name blade to be put up in Miles Lane ASAP This should have sent through a month ago by Roading
September 2022	9/9/2022	Lincoln Road	water leak on toby

Lincoln Road Service Request Data

September 2022	9/22/2022	Dalefield road, Bridge just past Lincoln road	Withheld s7(2)(a) advised on Dalefield road, Bridge just past Lincoln road , there is a large Willow tree hanging over the side of the railings. Trucks etc needing to take evasive action and its dangerous.
October 2022	10/3/2022	Lincoln Road	Withheld s7(2)(a) (Landlord) has rung to say that her property at 179 Lincoln Road has toilets that are backing up again and requires a portaloos for the tenants that are living there. She would also like you to call her to let her know if a portaloos will be delivered.
October 2022	10/12/2022	103 lincoln road	water leak across the road
October 2022	10/17/2022	It is along Brooklyn Road heading West of Lincoln Road, the Bridge with the twisted railings. The beech around below the bridge has had sheets of glass dumped.	Withheld s7(2)(a) has phoned to advise there has been illegal bumping of rubbish along Brooklyn Road.
October 2022	10/17/2022	Lincoln Road	Withheld s7(2)(a) from Lincoln Road has called to let us know that a few of the drains around her property line the land is disintegrating and she is worried a car might drive over it and get stuck in the drains.
January 2023	1/11/2023	corner of Lincoln and Brooklyn Road.	Withheld s7(2)(a) has phoned to advise there is a lot of surface flooding on the corner of Lincoln and Brooklyn Road. You can't see it until you hit it. Could we please arrange for some signs to go up
January 2023	1/11/2023	Lincoln Road	Toilet backing up and not flushing - has happened before re flooding / heavy rain etc.
January 2023	1/13/2023	Lincoln rd between dalefield and Frederick sts.	substantial water leak coming from a man hole on Lincoln Road between Dalefield Road and Frederick St. 2nd call - Withheld s7(2)(a) You may be aware already, there is a small geyser coming from a drain trap on Lincoln rd between dalefield and Frederick sts.
January 2023	1/16/2023	Lincoln Road	water leak in shoulder
January 2023	1/31/2023	Cnr of Lincoln Road and Dalefield Road	The grass on the corner of the above roads is really high, tonight I was returning home from work along Dalefield Road and a car coming down Lincoln Road turned right in front of me, almost causing a collision. He apologised and said he didn't see me because of the grass and I noticed last week it was getting very long. Can somebody please cut it ASAP to avoid any accidents. If you drive an SUV you are fine, but smaller cars have no visibility. Many thanks. :-)
February 2023	2/1/2023	Lincoln Road	blocked drain outside the north end of 55 Lincoln Road. The road floods there from the corner of Victoria St to about 100m south along Lincoln Road. Pic Lincoln' shows the footpath outside 55 and 57 Lincoln Road which has subsided and is a serious danger to walkers, especially at night.
February 2023	2/9/2023	Lincoln Road heading north	railway sign covered by trees
February 2023	2/22/2023	Lincoln Road has called about the storm water drain that runs along the back and northern side of his property	Withheld s7(2)(a) of Lincoln Road has called about the storm water drain that runs along the back and northern side of his property. The drain has not been cleared for a long time as he believes one of the neighbours does not want the tractor going through property. However he believe there is a right of access to enable clearance of drain
February 2023	2/27/2023	Lincoln Road, Carterton	A large pothole is impacting vehicles needing to move along the road and also vehicles entering their property, at 183 Lincoln Road.
March 2023	3/1/2023	Lincoln Road	Yellow concrete post that marks location of fire hydrant is leaning over into footpath. NZ Post bicycle postie using footpath to deliver mail hit this post and his bike fell over and was damaged. Luckily postie was not hurt. Withheld s7(2)(a) spoke to Withheld s7(2)(a) who asked for this to go to the water team to relocate back a bit
April 2023	4/5/2023	Lincoln Road	report the street light not working outside his property
April 2023	4/5/2023	Lincoln road southern end	Lincoln road has lost its signpost at the southern end, it certainly is not visible.

Lincoln Road Service Request Data

April 2023	4/27/2023	█ Lincoln Road	toby box needs reinstating and possible small leak, digger on property lifted the toby box out of the ground.
May 2023	5/26/2023	Lincoln Road, just past Pembroke	crap on the road
July 2023	7/4/2023	Lincoln Road	a rail crossing sign we apparently look after has been sheared off at the bottom. it is laying beside the road. Withheld s7(2)(a) cdc - i spoke to kiwirail about this yesterday, they have come back to us saying it is ours
July 2023	7/10/2023 12:14	Down Lincoln Road by Renalls Joinery.	trailer parked partially on the road and grass bank and a bit further down a car is park in the mud. Withheld s7(2)(a) said she almost hit the trailer as it was sticking out. trailer parked partially on the road and grass bank and a bit further down a car is park in the mud. Withheld s7(2)(a) said she almost hit the trailer as it was sticking out.
July 2023	7/11/2023	Brooklyn Rd / Lincoln Rd	There is no footpath from the Lincoln Rd Lime footpath connecting the end of Brooklyn Rd footpath As the Road narrows at the railway on the rise it's hard to see traffic Can this be passed to council for consideration?
August 2023	8/10/2023	Frederick Street (Lincoln Road end)	Stop sign has been knocked over and is laying on the grass at the side. First noticed this on Tuesday night 08/08/2023 - I hadn't noticed this before hand.
August 2023	8/22/2023	corner of Charles street and Lincoln road.	large pothole
September 2023	9/15/2023	█ Lincoln Rd	The trees at Lincoln Rd Carterton are unsafe and require attention. Last night one came down just in front of a car ,took the power out briefly and closed the road for 3 1/4 of an hour.
September 2023	9/15/2023	Lincoln Road	Last night our power was cut once again by the falling trees opposite █ Lincoln Road. Someone could have been killed. The trees are dangerously high and huge branches hang across the road. There is a subdivision now going into the area opposite the trees and they are so high they could hit the proposed housing development. I have lived here for ten years and have raised my concerns with the Council in the past to the risk they pose to residents. Everyone just passes the problem to someone else. Can you please try to do something about this situation. Regards Withheld s7(2)(a) - Withheld s7(2)(a) spoken with Withheld s7(2)(a) - these are private trees, needs a cutback notice
September 2023	9/20/2023	█ Lincoln Road	She lives at █ Lincoln Road and advises water comes under the road from the rural paddocks and goes round the back of several properties. She is reporting it has completely dried up.
September 2023	9/24/2023	█ Lincoln Road	water leaks in berm
October 2023	10/2/2023	lincoln road across from costley street west	water leak side of road
October 2023	10/11/2023	Corner of Brooklyn and Lincoln	Lime path looks fantastic! However the broken footpath on the corner makes it very hard to ride on/ access it.
October 2023	10/17/2023	Corner of Lincoln and Charles St Frederick St (Lincoln rd end)	There are two prominent pot holes that have gotten considerably bigger in the last two weeks. They are dangerous, please address this promptly as they are growing in size and have noticed cars hitting them particularly when they are full of water.
October 2023	10/19/2023	Lincoln road	Withheld s7(2)(a) advises the gutter is full of dirt and silt from the subdivision at Macrocapa Lane. Could it please be cleaned out. Thanks
November 2023	11/16/2023	between █ Lincoln Road Carterton	Roading between █ Lincoln Road Carterton ther are two major depressions in the road one outside 129/131 and another outside █ Lincoln Road. these two dips cause so much noise due to heavy traffic of trucks and trailers (with increased speed) and they make such a noise its very loud. Is their any way you could smooth them over and make them more level with the road that is there? TQ4uo9bhYrBp-IMG_0370.jpg Withheld s7(2)(a)

Lincoln Road Service Request Data

November 2023	11/16/2023	Footpath ██████████ Lincoln Road carterton our burn is rahter sad everyone else along Lincoln Road has grass!!! is there anyhting you can do to make it look a bit better? its rather unsightly and we have tried to grow grass to no avail	Footpath ██████████ Lincoln Road Carterton our burn is rahter sad everyone else along Lincoln Road has grass!!! is there anyhting you can do to make it look a bit better? its rather unsightly and we have tried to grow grass to no avail GONaNBidYjC-IMG_0371.jpg Withheld s7(2)(a)
November 2023	11/21/2023	██████████ Lincoln Road	The toby has been leaking for a few weeks. At first he thought it was the rain, but is didn't clear up on fine days.
November 2023	11/29/2023	██████████ Lincoln Road	Withheld s7(2)(a) has phoned to advise the Calvert by ██████████ Lincoln Road is starting to collapse. He has asked if he could met someone on site. I have rung Withheld s7(2)(a) to Acknowledge SR
December 2023	12/23/2023	lincoln road	caller said cows in council paddock had disrupted water tap. requested it be fixed as water was leaking on paddock and not trough
January 2024	1/11/2024 8:30	Lincoln road rail crossing	Lincoln Road Signals have been knocked over. There are also signs damaged at the Brooklyn and Lincoln corner.
January 2024	1/11/2024 8:44	Lincoln Road between the Brooklyn and Charles Street Intersections.	Rail crossing signals are both laying on the ground – there is no signage notifying works so I am assuming it is an act of vandalism.
January 2024	1/12/2024	Lincoln rd, Carterton between Belvedere and Brooklyn Rd	Road Closure of Lincoln Rd, Carterton 13/01/24 No notification was given by the event organisers regarding the proposed road closure for the cycling event. Therefore residents have not been given the correct amount of time to voice their concerns etc. I live at ██████████ neighbours at ██████████ and ██████████ and directly across the road from me have had no notification. We learnt of the road closure only 2 days ago via the local paper. I have had a discussion with Johannes regarding this and received an apology from him on the event organisers behalf. He has asked me to put this service request in here so this can be discussed with the event organisers.
January 2024	1/29/2024	██████████ Lincoln Road	Could you please get in touch with the owners of ██████████ Lincoln Road about the trees and bushes that are taking up 3/4 of the path. People with prams, in wheelchairs, etc have to go onto the grass verge to get past. Has been like that for well over a year.
February 2024	2/5/2024 8:30	Corner Lincoln/Brooklyn Roads (still in ground moving around. Lincoln road heading south has been shearded off - sharp wood sticking out of the ground	50/70 KM signs been hit over the weekend, one has been sheared off, CDC Staff has brought it back to the cdc yard, the other is moving around badly in the ground and will fall if even slightly hit.
February 2024	2/15/2024	██████████ Lincoln Road	Withheld s7(2)(a) of ██████████ Lincoln Road has phoned advising her water meter box needs replacing. The plastic has fallen in and she can't turn her toby off as a result. Apparently the meter box is inside her boundary, she does have a dog so would like a phone call before somebody comes around to fix.
February 2024	2/21/2024 8:31	██████████ Lincoln Road	road leak ██████████ Lincoln

Lincoln Road Service Request Data

March 2024	3/8/2024	██████ lincoln road	leaking toby
March 2024	3/20/2024 15:04	Augustus, Pembroke and Lincoln Road	Hi Withheld s7(2)(a) has phoned to advise the street lights on Augustus, Pembroke and Lincoln Road have been out since Sunday.
March 2024	3/21/2024	Taverner/Belvedere & Lincoln Roads.	Hi Withheld s7(2)(a) has phoned to advise it appears somebody has lost some aggregate from a trailer. There is a lot on Taverner/Belvedere & Lincoln Roads.
March 2024	3/21/2024	Lincoln Rd and belvedere Rd	Withheld s7(2)(a) has rung up asking if someone can clean up some large bits of gravel that are on Lincoln Rd and belvedere Rd.
March 2024	3/22/2024	intersection of Lincoln and Dalefield road.	Ruslaan had a call re loose stones & gravel at the intersection of Lincoln and Dalefield road. No other info provided Thanks Withheld s7(2)(a)
March 2024	3/25/2024	Lincoln Road	over hanging trees along Lincoln Road.
April 2024	4/2/2024	corner of Lincoln Rd and Brooklyn Rd	wants more streetlights and a footpath
April 2024	4/18/2024 7:06	Lincoln Road	Limestone path requires some weed control, grass berms encroaching on pathway, very narrow in places.
April 2024	4/23/2024	This is on Brooklyn between Lincoln and Mannings Road	Withheld s7(2)(a) has phoned to advise there is a dead calf hanging on the 1st bridge with metal railing along Brooklyn Road.
April 2024	4/30/2024	Cnr Dalefield and Lincoln road	Withheld s7(2)(a) has phoned to advise there is very low water pressure at his property on Lincoln Road. Council fixed a leak at the toby outside Council Roding yard in Dalefield Road a week or so ago, this line feeds Withheld s7(2)(a) and Withheld s7(2)(a) property at Lincoln Road. The tenants have complained to him there is very low water pressure since toby was fixed. Are we able to investigate and get back to him.
May 2024	5/8/2024	Outside 59 Lincoln Road	Withheld s7(2)(a) has hit the blue water pipe outside his property and water is pouring out. He has stated not in his property but by road. - ██████ Lincoln Road
May 2024	5/9/2024	██████ Lincoln Rd	Low water pressure Since work was done to fix a leak on Dalefield Rd , next to our water connection. Shower and hot water hand wash dont have enough pressure, so only run COLD My plumber has looked at the backflow meter and suggested the connection/meter could be blocked or faulty ?
June 2024	6/4/2024	Near ██████ Lincoln Road	There is a short of line of overgrown trees that present a risk to blocking Lincoln Road should they break and fall over in high winds. The trees which are located on the boundary near ██████ Lincoln Road have been observed leaning towards the powerlines on the adjacent property of ██████ Lincoln Road during high winds. I have been in contact with Powerco to send a contractor to assess the site and issue a cut and trim notice to the property owner if necessary. I'm requesting the Council also assess the situation due to the potential impact to Lincoln Road especially as Winter draws near. This is an issue which was raised with Powerco by surrounding property owners as far back as Feb 2024 and nothing has been done yet that we know of. There is evidence of tree breakage near the entrance of 66 Lincoln Road.
June 2024	6/24/2024	Lincoln Road	House hold rubbish has been dumped between the rail tracks and behind Tichurst Sawmill. There is 2 piles of rubbish some in black plastic bags

Lincoln Road Service Request Data

June 2024	6/25/2024	Lincoln Road, Carterton	Road subsidance. Yvonne beliefs the road is subsidating at the entrance to her property due to water pooling she said it is not a pothole.
July 2024	7/25/2024	Lincoln road - 70km/hr zone	Car damaged by pothole - please refer to attached document
July 2024	7/30/2024	Lincoln Road, a deep pothole between Victoria St and Costley Street West	car was severely damaged last Sunday (21/7) after heading southbound on Lincoln Road and hitting a deep pothole that is in the 70km zone between Victoria St and Costley Street West. Images of the pothole provided. Five pictures included in an email to Ron Mark. Can only include two pictures in this service request. Original email sent to Geoff Hamilton and Johannes Ferreira on 30 July 2024 from Ron Mark.
August 2024	8/9/2024	Corner Belvedere Road / Tavener / Lincoln	A 70km sign has been placed in a 50km area by roading contractors while they do works on Lincoln Road. It has been placed on corner of Tavener and Lincoln road towards Belvedere Road. These have been in place at least from 8:30am and are still there. Speeding is an existing issue on Belvedere Road and drivers don't need more encouragement. If this could be corrected, that would be great.
August 2024	8/22/2024	Drain is outside 59D Lincoln Road and water race is on farm paddock behind this address	Water race on neighbouring property is blocked and will cause open storm water drain to flood in upcoming wet weather.
September 2024	9/16/2024	Lincoln Road and Dalefield Road intersection	Asbestos has fallen off the back of a truck and is on the side of the road at Lincoln and Dalefield intersection.
September 2024	9/23/2024	lincoln rd	In the recent rains our lovely lime path along side Lincoln rd has started to wash down into my drive. This is because the runoff from the road does not have any where to go. See attached photos. I am thinking a solution would be to create a soak pit where the flow start just next to lincoln rd. In the next couple of weeks I am having the civil works done on a small subdivision taking two sections off the front of the This means there is a approved TMP in place and a opportunity to fix this problem. I wonder if you guys could use this opportunity to fix this drainage problem and save the path. Withheld s7(2)(a) Co plan to the civil work mid Oct. Any chance of aligning a team to make a soak pit? Oh by the way... love the footpath you guys have made along Brooklyn rd. So good, well done on that piece of work.
September 2024	9/27/2024	Lincoln Road, Carterton	Water meter check for leak please Meter ID 08SENxx Copy of email attached.
October 2024	10/7/2024	Lincoln Road Carterton	Withheld s7(2)(a) is unable to turn the water off at toby to fix a leak at property. Can we please check it out.
October 2024	10/7/2024	Lincoln Road and opposite Pembroke Street Carterton	Berm outside property has not been mowed for several months. Withheld s7(2)(a) acknowledges there has been road works down Lincoln Road however believes berms should still have been mowed.
November 2024	11/13/2024	Lincoln Road Carterton	x2 large potholes at the end of driveway on road edge urgently need repairing.
November 2024	11/19/2024	Lincoln Road Carterton	Yellow top wheely bin was not emptied yesterday. Why!!

Document 5

Lincoln Road AWPT								
Chainage	New Kerb and Channel	New Centreline	Old Centreline	Road Centreline raised by	New edge of seal	Old edge of seal	Edge of seal raised by	
347.00	100.000							Manhole at centre of intersection
367.00	99.810	99.993	99.883	0.110	99.833	99.705	0.128	
387.00	99.840	99.978	99.820	0.158	99.867	99.630	0.237	
407.00	99.753	99.926	99.740	0.186	99.786	99.692	0.094	
427.00	99.668	99.833	99.695	0.138	99.751	99.640	0.111	
443.00	99.588	99.833	99.640	0.193	99.808	99.635	0.173	
463.00	99.408	99.563	99.476	0.087	99.768	99.408	0.360	
483.00	99.308	99.368	99.327	0.041	99.468	98.998	0.470	
503.00	99.093	99.201	98.926	0.275	99.308	98.920	0.388	
523.00	98.858	99.103	98.923	0.180	99.133	98.838	0.295	
543.00	98.688	99.028	98.898	0.130	99.028	98.828	0.200	
563.00	98.498	98.888	98.878	0.010	98.978	98.818	0.160	
586.00	98.148	98.768	98.657	0.111	98.743	98.603	0.140	



Turning Knowledge
Into Value

Report

Lincoln Road Flood Risk Assessment

Prepared for Carterton District Council

2 July 2021

Calibre Consulting Ltd
149025

QUALITY ASSURANCE STATEMENT

TASK	NAME	SIGNATURE
Project Manager	Francois Basson	
Prepared by	Swastika Mishra	
Reviewed by	Ian Steer	IS
Approved for Issue by	Derek Roberts	

DOCUMENT CONTROL

ISSUE	DATE	ISSUE DETAILS	AUTHOR	CHECKED	APPROVED
0	02/07/2021	Technical Report – First Issue	Swastika Mishra	IS	DR

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1. Background

The carriageway in Lincoln Road between Pembroke Street and Victoria Street was widened in 2020/2021 by the contractor Fulton Hogan as part of the Carterton District Council's development works plan.

Widening of the carriageway was primarily in an eastward direction and involved the construction of kerb and channel, a grassed berm, and alterations to the driveways to properties. The centre point of the road, or crown, has been shifted horizontally eastward to ensure that it defines the centreline of the road. The surface level of the road was also raised by approximately 150mm.

The culvert that crosses under the road near No.42 Lincoln Road is at the high point of the kerb and channel. The kerb and channel to the north of the culvert falls from the high point toward Pembroke Road, and the kerb and channel to the south falls toward Victoria Street.

The existing footpath has been left undisturbed, except where localised reshaping was required to tie-in with the new concrete driveways.

Based on Calibre's discussions with the Council, we understand that the road widening, and the associated works have caused some concerns to residents who believe their properties are at a higher risk of flooding. To address these concerns a preliminary study was undertaken, and a range of mitigation measures proposed.



Photograph - The above photograph shows the driveways falling back into properties. This can result in surface water flows entering properties from the footpath, and surface water from within the properties being unable to flow out. The net result is likely to be localised flooding at the property entrances.

2. Consideration of Stormwater Catchments and Mitigation Options

There are three distinct stormwater catchments within the widened length of road each with their own flowpaths for discharge to the Waikakariki Stream. These catchments are:

- Footpath, Grass Berm and Property Catchment.
- Western Road Catchment.
- Eastern Road Catchment.

Of these catchments, the first two are relevant when considering resident concerns,

The Eastern Road Catchment takes surface water from Lincoln Road east of the crown of the road and channels it along the newly constructed kerb and channel to a discharge into the Waikakariki Stream. This catchment operates without any impact on properties and can therefore be disregarded in this discussion.

2.1 Footpath, Grass Berm and Property Catchment

This catchment comprises the new grass berm, the existing footpaths, the new concrete driveways, and those portions of private property that drain toward the existing footpaths. All rainfall (surface water) flowing from the surfaces within this catchment collects in the short valleys formed by the interface of the berms and footpaths. Due to the presence of the new concrete driveways these valleys are “dammed” at intervals along the property frontages with Lincoln Road.

There is currently no outlet for surface water trapped in these valleys so there is a potential for localised flooding.

In the event of prolonged rainfall leading to overtopping of these valleys, the relative heights of the adjoining property boundaries and concrete driveways will determine the flowpath for this surface water. Where the property boundaries are above the height of the driveway, water will flow over the driveway and into the next valley, potentially exacerbating the problem further downstream. Where the driveways are above the level of the property boundaries surface water will overtop the boundary and flow into private property.

For reference, the newly constructed kerb and channel is above the property boundaries and the levels of the driveways so it is unlikely that any of the trapped surface water will flow onto the road.

Calibre undertook a high level survey to record heights of the road, footpaths and kerb and channel on the eastern side of the road, and to record edge of seal, property, and floor level heights for properties on the western side of Lincoln Road. This work does not comprise a survey of sufficient detail to undertake any assessments of stormwater flowpaths for individual properties, however, this information has allowed us to consider a number of corrective measures. These are as follows:

- *Removal and Reconstruction of Driveways*

This comprises:

- Construction of a concrete dish channel and/or a slotted drains (100mm to 150mm wide) along the valley at the interface of the footpath and the grassed berms,
- Construction of a sump at the southern end of the site near Victoria Street to collect and discharge water from the dish channel/slot drains to the Waikakariki Stream,
- Reconstruction of the concrete driveways so that there is positive fall away from the property boundaries to the dish channel and/or slot drain, and fall away from the kerb and channel to the dish channel and/or slot drain, and

The longitudinal fall along the valley created by the footpath/grass berm interface generally follows the natural fall of the land, this being a slope from north to south from the culvert (at approximately No.42 Lincoln Road) of 1 in 130 or 0.8%. This slope is sufficient to adequately drain surface water from areas within this catchment.

The decision whether to install dish channel or slot drains will be dictated by the relative heights of the property boundaries and the kerb and channel. If the height difference is too great a very steep valley would be created that vehicles accessing properties would be required to negotiate.

If the changes of grade are too abrupt the front and rear sections of vehicles may scrape the concrete, or the centre sections of vehicles may bottom out. Careful analysis and reference to design guides for vehicle access to property would need to be referenced.

A dish channel could be installed at driveways if the changes of grade (slope) are within guidelines and are not too abrupt. If these changes are outside of acceptable guidelines a slot drain with a steel grating over the top for drainage may be required.

- *Slot Channels Through the Existing Driveways*

This comprises

- Saw cutting and removal of a section of driveway, perhaps 100mm to 150mm wide, and
- Installation of a slotted drain with a steel mesh grate. ACO drains or similar.

This option would alleviate the build-up of water in the valley created by the grassed berm and footpath; however, site observations show that the slope on the existing driveways is from the kerb and channel to the property boundaries. As such the section of the driveway on the property side of the slot drain would still discharge surface water into private property, as well as potentially damming water inside properties that would otherwise have flowed across the concrete footpaths.

For the above reasons this option is not recommended as it may lead to ongoing complaints from property owners.

- *A Piped System*

This comprises:

- installing small yard sumps just prior to each driveway,
- construction of a 225mm diameter stormwater system within the grass berm or along the edge of the carriageway, and connection of the sumps to this system, and
- construction of a discharge from the stormwater system to the Waikakariki Stream near the corner of Lincoln Road and Victoria Street.

This option would require excavation through the newly formed driveways or within the newly constructed carriageway and would create weak points in both surfaces. From an asset management perspective this is not desirable.

This option would also be expensive and a reasonably maintenance intensive option as the yard sumps would need to be cleaned regularly to prevent detritus build-up that could restrict the ability of the sumps to function. The net effect of lack of maintenance would be the damming effect that currently exists.

For the above reasons this option is not recommended.

- *Removal and Reconstruction of the Kerb and Channel*

The kerb and channel could be removed and reconstructed at levels that do not cause flooding or property access issues, but associated with this would be reconstruction and lowering of the road pavement to ensure there is no scraping or bottoming out at driveways.

Given the expense and disruption to properties that would result, as well as possible negative public reaction, this is not considered to be a viable option.

2.2 Summary and Recommendation for Footpath, Grass Berm and Property Catchment

In summary the *Removal and Reconstruction of Driveways* is the recommended option, noting that a topographical survey will be required to provide sufficient information for the detailed design.

No costings have been provided for the above options as Calibre is not party to the rates submitted for the Ruamahanga Roads Maintenance Contract.

3. Western Road Catchment

This catchment comprises the Waikakariki Stream floodway*, the road surface of Lincoln Road from the crown of the road westward to the property boundaries and the surface areas of the properties on the western side of the road from No. 42 Lincoln Road to the Waikakariki Stream where it crosses back under Lincoln Road near Victoria Street.

*The Waikakariki Stream is piped under Lincoln Road near No. 42 with this culvert intended to channel surface water from the catchment comprising the farmland and properties to the northwest of Lincoln Road. Calibre has not analysed the size of the culvert and the contributing catchment to determine the level of flood protection afforded by this culvert. Nevertheless, in extreme flood events the culvert may surcharge, and flood water will flow out onto the adjoining properties.

Calibre understands that the flood risk posed by the culvert surcharging is the issue that concerns residents, particularly given the 150mm increase in height of the crown of the road.

3.1 Understanding the Catchment

The question to be answered is: does the raising of the crown of the road by 150mm (approximately) increase the risk of flooding for properties on the western side of the road, and specifically No.'s 42 and 48 Lincoln Road?

Before addressing this question, it is important to understand the topography of the land on the western side of Lincoln Road and the effect that this has on the overland flowpaths for flood water. The construction of dwellings, driveways and fences, and the landscaping of properties affects the natural overland flowpaths of flood waters, however, unless these features are in the form of solid structures fully encircling properties, floodwaters will follow the low points in the land toward the natural drainage point.

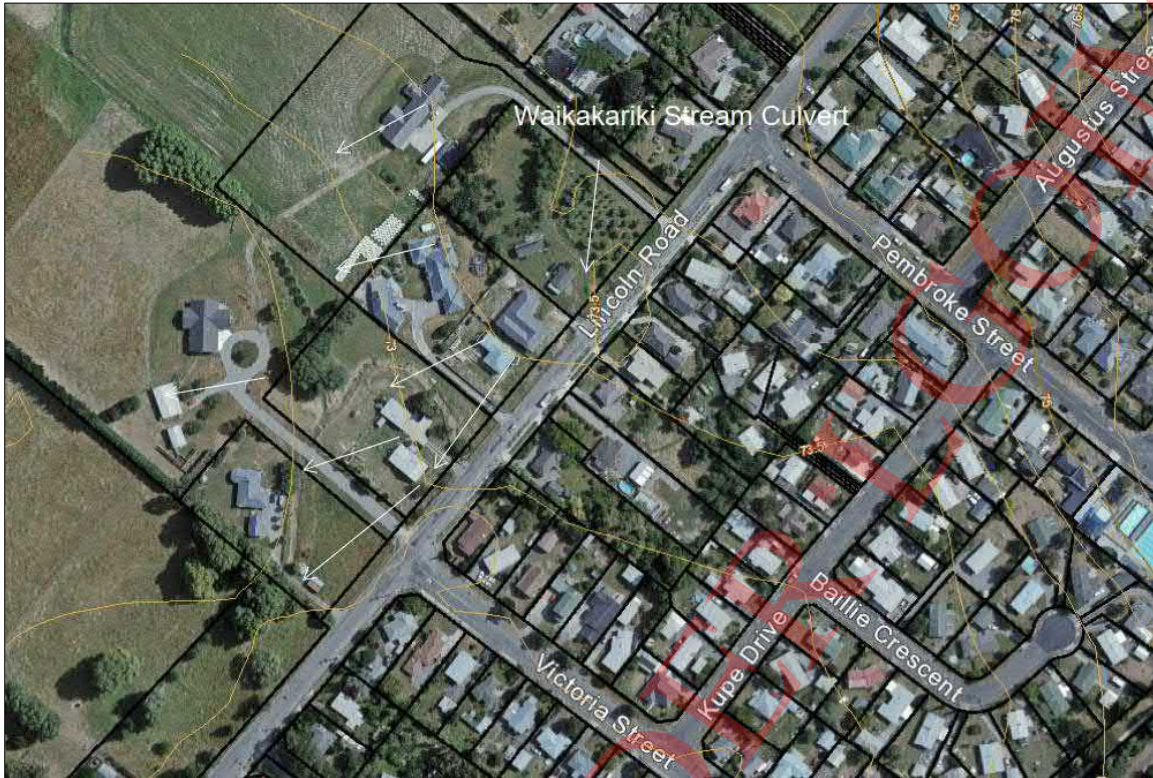
A review of site photographs for Lincoln Road shows that there are no solid structures that are likely to affect the passage of floodwater, although there are depressions in the land and raised driveways that are likely to cause localised flooding.

The aerial photograph below shows the recently widened section of Lincoln Road, prior to the widening, with contour lines extending east and west of the road. This aerial photograph is oriented with north at the top of the page.

The contours indicate that the slope of the surrounding land is generally from north to south-west. The location of the culvert under Lincoln Road near No. 42 is shown.

The major factor affecting the potential for a flood event that affects properties on the western side of Lincoln Road, is the Waikakariki Stream and the culvert under Lincoln Road. If this culvert is blocked or if a storm event exceeds the design capacity of the culvert, there will be flooding in the local area.

The contours, show that there is a "basin" at the entrance to the culvert, roughly defined by the contour line of elevation 73.5 metres. In a flood event and if the culvert is blocked, or where the storm event exceeds the capacity of the culvert, the basin will overtop, and floodwater will spread out across the adjoining land. This floodwater will take the preferential flowpath, that is, it will travel down slope at right angles to the contours of the land. The white arrows shown on the aerial photograph are perpendicular to the contour lines and indicate the preferential flowpaths for floodwaters.



Flowpaths for Floodwater from the Culvert Near No. 42 Lincoln Road

In general and based on the contours shown on the aerial photograph, it can be expected that floodwaters will spread out south-westward and follow the contours of the land toward the Waikakariki Stream.

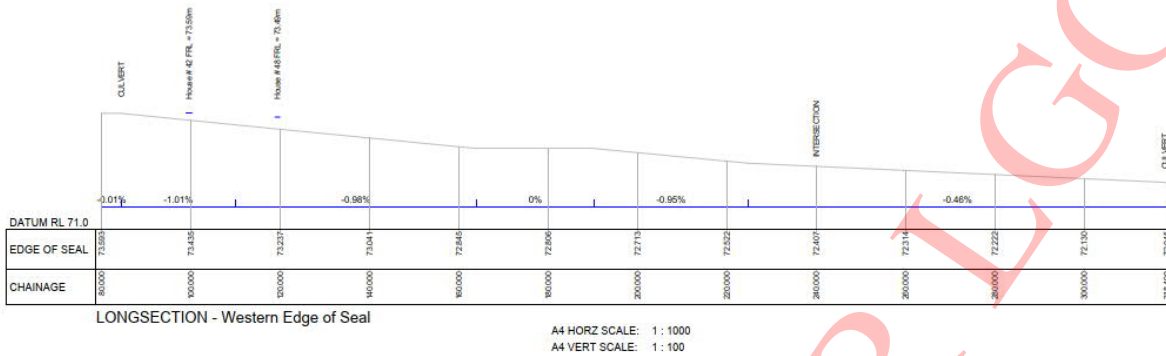
Surface water from Lincoln Road previously flowed westward from the crown of the road, to a shallow swale drain/table drain that was probably formed when the road was constructed, see the photograph directly below. The purpose of this drain was to collect and channel surface water from the road and adjoining land south to the Waikakariki Stream.



Photograph - The swale drain/table drain referred to above is evident along the current fenceline. Further south of this location it enters undulating land and is not visible.

Some of the floodwater from a blockage of the culvert would follow the route of the swale drain/table drain southwards toward the Waikakariki Stream. Localised flooding would occur due to the undulating nature of the ground and due to raised driveways that cross the flood route.

Calibre undertook a high-level survey to record heights of the crown of the road, the edge of seal and the floor levels (top of step) of numbers 42 and 48 Lincoln Road. These levels are shown below.



Detail 1 - Longsection of the Western Side of Lincoln Road from North to South

The grey line shows the edge of seal, approximately 150mm above adjoining property levels, and the short blue dashes the relative heights of the floor levels of No.'s 42 and 48 Lincoln Road in relation to the edge of seal.

At the right-hand end of the longsection is the ground level at the edge of the Waikakariki Stream after it crosses back to the western side of Lincoln Road, near Victoria Street. The height differential between this level and the ground level at the edge of the culvert by No. 42 Lincoln Road, assuming the shoulder height is 150mm, is approximately 1.2 metres. The crown of the road is approximately 90mm above the edge of seal.

Calibre’s survey shows that the average longitudinal fall is 1 in 125 or 0.8% from north to south. This is the route that floodwaters would follow.

3.2 Effect of Widening of Lincoln Road on Freeboard within Properties

As above, the preferential flowpath for floodwater from the road, the high-level overflow from a blocked/backed up culvert, and from the properties adjoining the road will be north to south along the shallow swale and south-west across adjoining farmland.

It is unlikely that floodwater would backup and flow across the crown of the road in front of No.'s 42 and 48 Lincoln Road given the natural slope of the land, and unless there was a very significant obstruction affecting not only the swale, but overland flow to the south-west.

For clarity, such an obstruction could only be a structure fully encircling these properties and built to a height at or above that of the crown of the road. This is highly unlikely.

Nevertheless, and to determine whether the crown of the road could backup floodwater to the point where it enters these properties, we provide the following table. This shows the levels of the top of the steps at each dwelling (assumed to be floor level), the edge of seal and the crown of the road. For flood water to enter dwellings, assuming a significant obstruction in the flowpaths, the crown level of the road would need to be at or above the floor level.

Once water reaches the crown of the road it would spill over and flow down the kerb and channel on the eastern side of the road.

Location	Floor Level (RL metres)	Edge of Seal (RL metres)	Crown of Road (RL metres)	Freeboard from Crown to Floor Level (metre)
No. 42 Lincoln Road	73.59	73.44	73.53	+0.06
No. 48 Lincoln Road	73.49	73.24	73.33	+0.16

Table – Freeboard Between Floor Levels and the Crown of the Road

The last column on the right of the table shows the “freeboard” or height of the floors of the two dwellings **above** the crown level of the road. In both instances this is “positive” meaning that the floor levels are above the crown, although not by the 200mm mentioned in correspondence by one of the property owners as being required for insurance purposes.

The figures shown above must be taken in the context in which they are provided, this being that unless there is a significant obstruction damming floodwater from following the natural falls of the land, it is extremely unlikely for such a build-up to occur.

3.3 Addressing Residents’ Concerns

Notwithstanding the above, it is understandable that residents have been concerned by the raising of the crown of the road. Although the land adjoining the road has a positive north to south slope, the swale drain at the edge of the road is poorly defined due to the undulating nature of the land. Localised flooding may occur. The swale drain is also crossed by vehicle crossings that will block flows and cause localised flooding.

If Council wished to alleviate resident concerns, it is suggested that the swale drain/table drain be reformed as a wide shallow “V” drain within properties, at perhaps 2 to 3 metres in width and 100mm to 150mm in depth, and that culverts be installed beneath driveways to ensure that flows are unimpeded for the full length of the widened road. A swale will provide a defined channel for floodwater to follow, and if culverts are provided, this water can be channelled to the Waikakariki Stream near Victoria Street.

A wide shallow swale of the dimensions above and regrown in grass will have little, if any visible impact, on the landform.

The effectiveness of a reformed swale and new culverts depends very much on ongoing maintenance. If obstructions such as trees and other features are placed in the swale, or if silt accumulates in the culverts, localised flooding will occur.

The requirement for, and creation of, easements for a swale drain and culverts has not been addressed as this is an issue for Council to consider.

4. Summary Western Road Catchment

Given the natural slope of the land between the culvert near No. 42 Lincoln Road and the Waikakariki Stream near Victoria Street, it is unlikely that the raising of the crown by 150mm during the widening of Lincoln Road has increased the flood risk to properties on the western side of the road. For flooding to occur, a significant impediment to overland surface water flows would be required to the south-west of these properties. This would need to raise the retained floodwaters to a height of or above the crown of the road. Even if this were to occur, the crown of the road opposite No.’s 42 and 48 Lincoln Road is below the floor levels of these dwellings by 60mm and 160mm respectively, and so flood water would overtop the road and flow down the eastern kerb and channel before inundating these dwellings.

The land on the western side of Lincoln Road was shaped, possibly when the road was constructed, to include a swale drain/table drain to cater for road drainage. This is now poorly formed, and its route is undulating and crossed at intervals by driveways. Localised flooding in heavy rainfall is likely to occur.

To alleviate resident concerns, it is suggested that this swale drain/table drain be reformed as a low, shallow “V” drain within properties and that culverts be installed at vehicle crossings to provide an unimpeded flowpath for floodwater.

No costings have been provided for the above options as Calibre is not a party to the rates submitted for the Ruamahanga Roads Maintenance Contract.

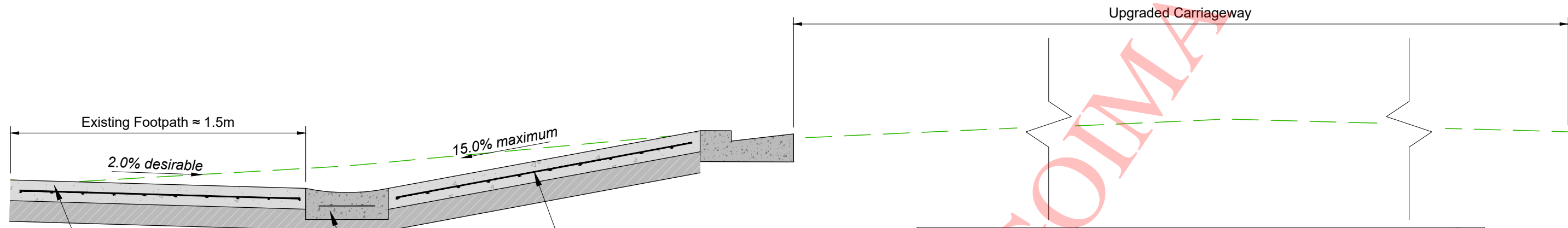
The requirement for, and creation of, easements for a swale drain and culverts has not been addressed as this is an issue for Council to consider.

Please note we have not considered the presence of underground services and identified whether they are likely to have an impact on the options outlined above. This will need detailed work and is beyond the scope of this flood risk assessment.

Appendix A Option 1

RELEASED

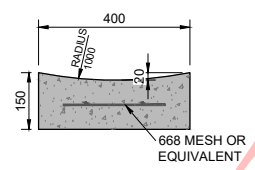
UNDER LGOMIA



Reconstruct footpath to drain away from property boundary
 - change of crossfall to be approved by Engineer)
 - Reinforcement required only at driveway crossings

Construct a concrete channel separation between footpath and the driveways to ensure the breakover angle of 17% maximum
 - Reference to NZS 4404:2004

Reconstruct driveways to accommodate concrete channel between driveway and footpath



STD FOOTPATH DISHED CHANNEL
 Scale 1:10

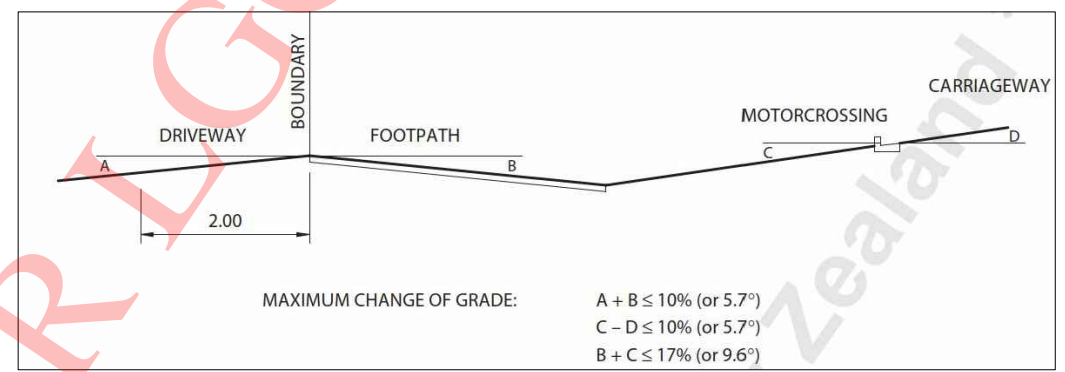
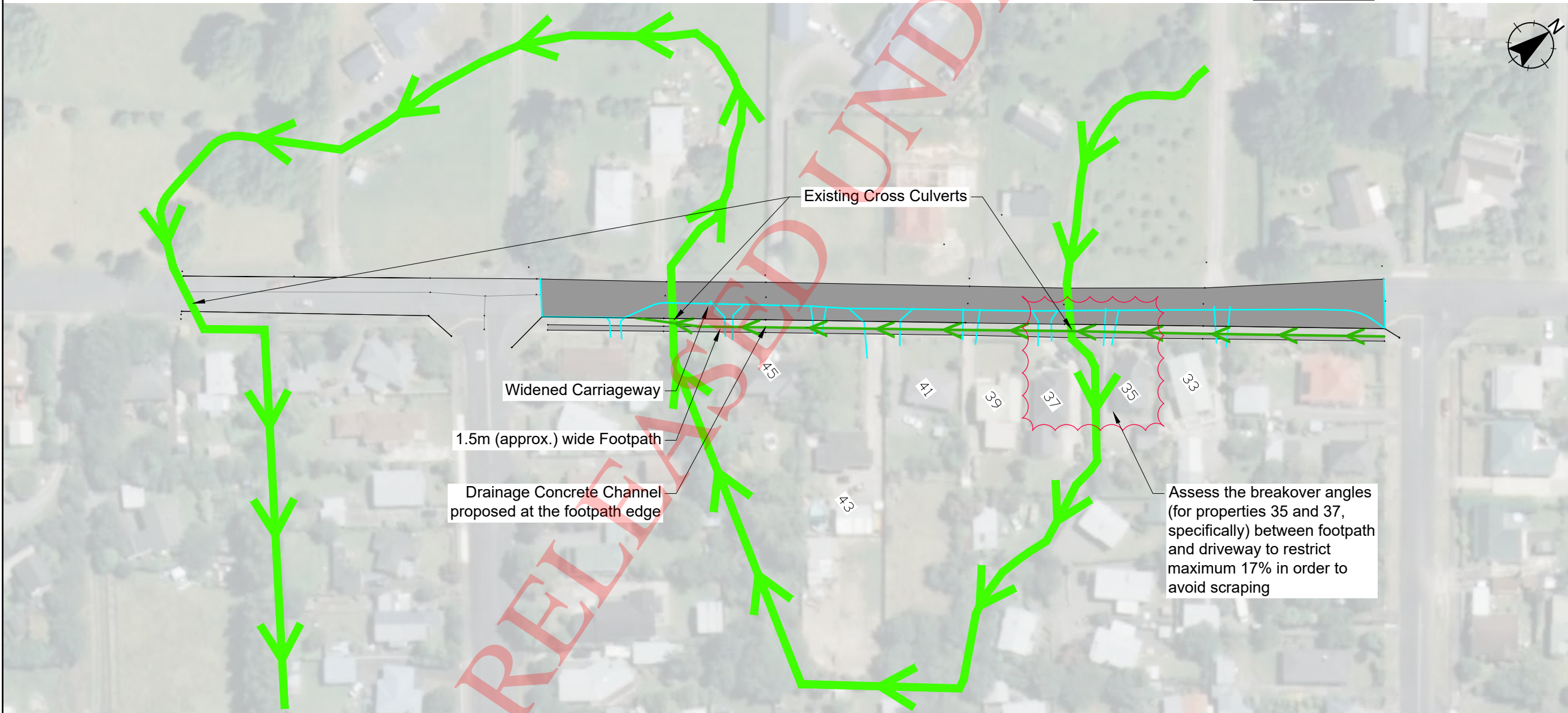


FIGURE 3.9 - MAXIMUM BREAKOVER ANGLE FOR VEHICULAR ACCESS TO PROPERTY (NZS 4404:2004)



INFORMATION ONLY
 NOT FOR ISSUE

Revision	App	Date
Surveyed DR	05/21	FB 21.06.21
Designed SM	06/21	
Drawn SM	06/21	
Reviewed FB	06/21	
Approved FB	06/21	

Verify all dimensions on site before commencing work. Prioritise figured dimensions over scaling. Refer all discrepancies to Calibre. This document and the copyright in this document remain the property of Calibre Consulting Limited. The contents of this document may not be reproduced either in whole or in part by any means whatsoever without the prior written consent of Calibre Consulting Limited.



Project Title
 LINCOLN ROAD
 FLOOD RISK ASSESSMENT

Sheet Title
 LAYOUT AND SECTION
 OPTION 1
 (PREFERRED OPTION)

Level 13, Kordia House
 109-125 Willis Street, Wellington 6011
 calibregroup.com
 +64 4 384 2029



Scale (A1 Original) 1:600 (A3) 1:1200

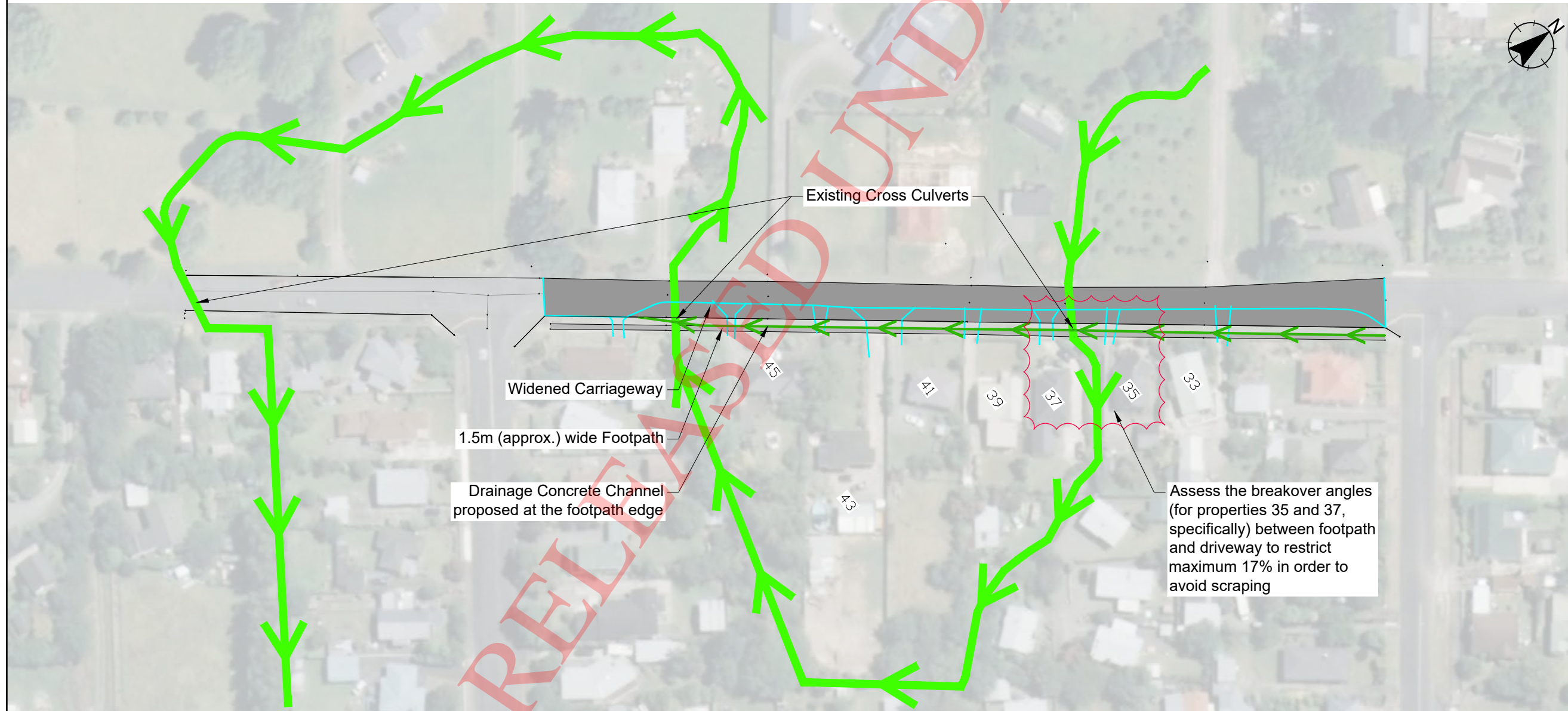
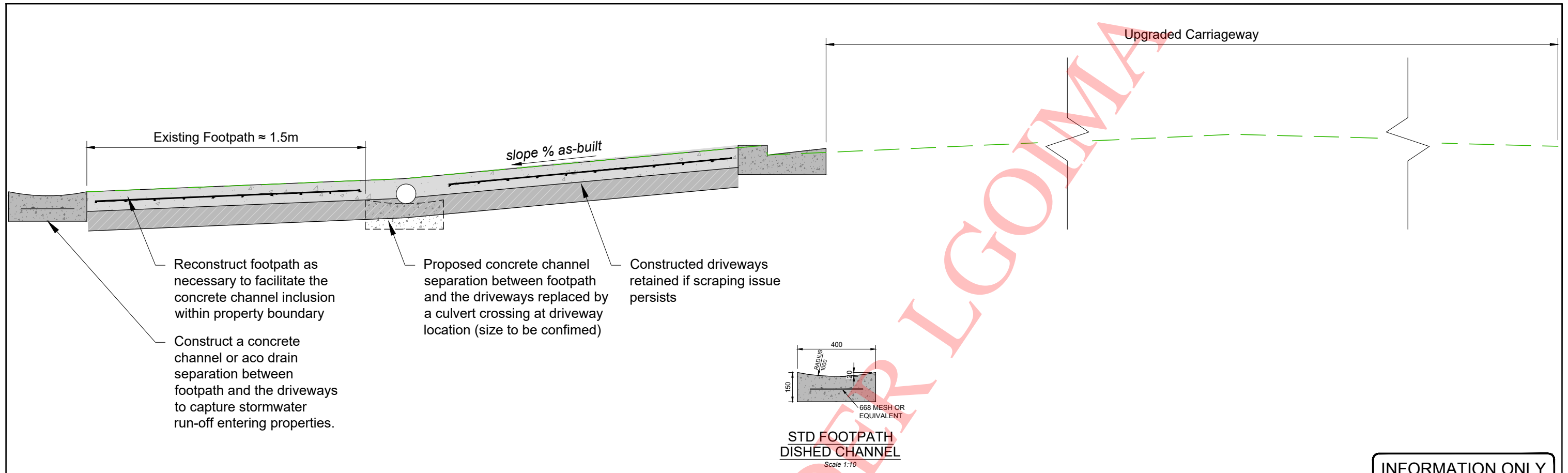


Project No 712594 Sheet C01 Revision A

Appendix B Option 2

RELEASED

UNDER LGOM/A



INFORMATION ONLY
NOT FOR ISSUE

A FOR INFORMATION ONLY FB 21.06.21

Revision	App	Date
Surveyed DR	05/21	
Designed SM	06/21	
Drawn SM	06/21	
Reviewed FB	06/21	
Approved FB	06/21	

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Project Title
LINCOLN ROAD FLOOD RISK ASSESSMENT

Sheet Title
LAYOUT AND SECTION OPTION 2 (IF DRIVEWAY SCRAPING ISSUE PERSISTS)

Level 13, Kordia House 109-125 Willis Street, Wellington 6011 calbregroup.com +64 4 384 2029



Scale (A1 Original) 1:600 (A3) 1:1200



Project No 712594 Sheet C02 Revision A

Appendix C GIS Contour Map

RELEASED

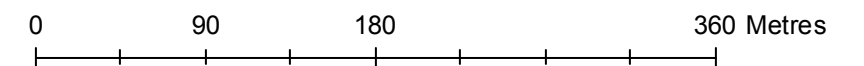
UNDER LGOINVA

LocalMaps Print



April 21, 2021

1:4,000



DISCLAIMER
The Masterton, Carterton, and South Wairarapa District Councils accept no responsibility for actions or projects undertaken or loss or damages incurred, by any individuals or company, or agency, using all or any of the information presented on this map. The Councils do not provide interpretation of this information or advice on how to interpret, or utilise this information. Your own independent and appropriate professional advice should be sought. The information displayed on this map may contain errors or omissions or may not have the spatial accuracy required for some purposes.

RELEASED

Appendix D Existing Services

RELEASED

UNDER LGOM/A



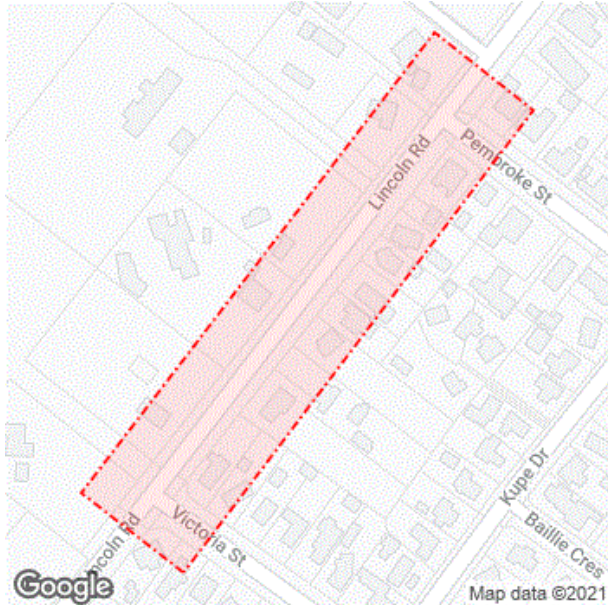
Caller Details

Contact: Ms Swastika Mishra
Company: Calibre
Address: Calibre Te Aro, Kordia House, Level 13/109/11
Te Aro Wellington City 6011

Caller Id: 148705
Mobile: Not Supplied
Email: Swastika.Mishra@calibregroup.com
Phone: 048947822
Fax: Not Supplied

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: Lincoln Road
Working on Behalf of: Carterton District Council
Enquiry Date: 26/05/2021
Start Date: 29/05/2021
End Date: 31/05/2021
Address: Lincoln Road
Carterton Carterton 5713
For Planning: Yes
Onsite Activity: Major Earthworks Cutting/Filling
Plans Requested: Yes
Workplace Location: Both
Location in Road: CarriageWay, Footpath, Berm
Locate Requested: No
Preferred Locate Date: Not Supplied

- Check that the location of the dig site is correct. If not you must submit a new enquiry.
- Should the scope of works change, or plan validity dates expire, you must submit a new enquiry.
- Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

Please provide the pdfs for the underground and overhead utilities in the marked area.

Your Responsibilities and Duty of Care

- If plans are **not** received within **2 working days**, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you **MUST** advise the asset owner immediately.
- By using the beforeUdig service, you agree to our privacy policy and the terms and conditions set out at www.beforeudig.co.nz
- For more information about the beforeUdig service, visit www.beforeudig.co.nz

Asset Owner Details

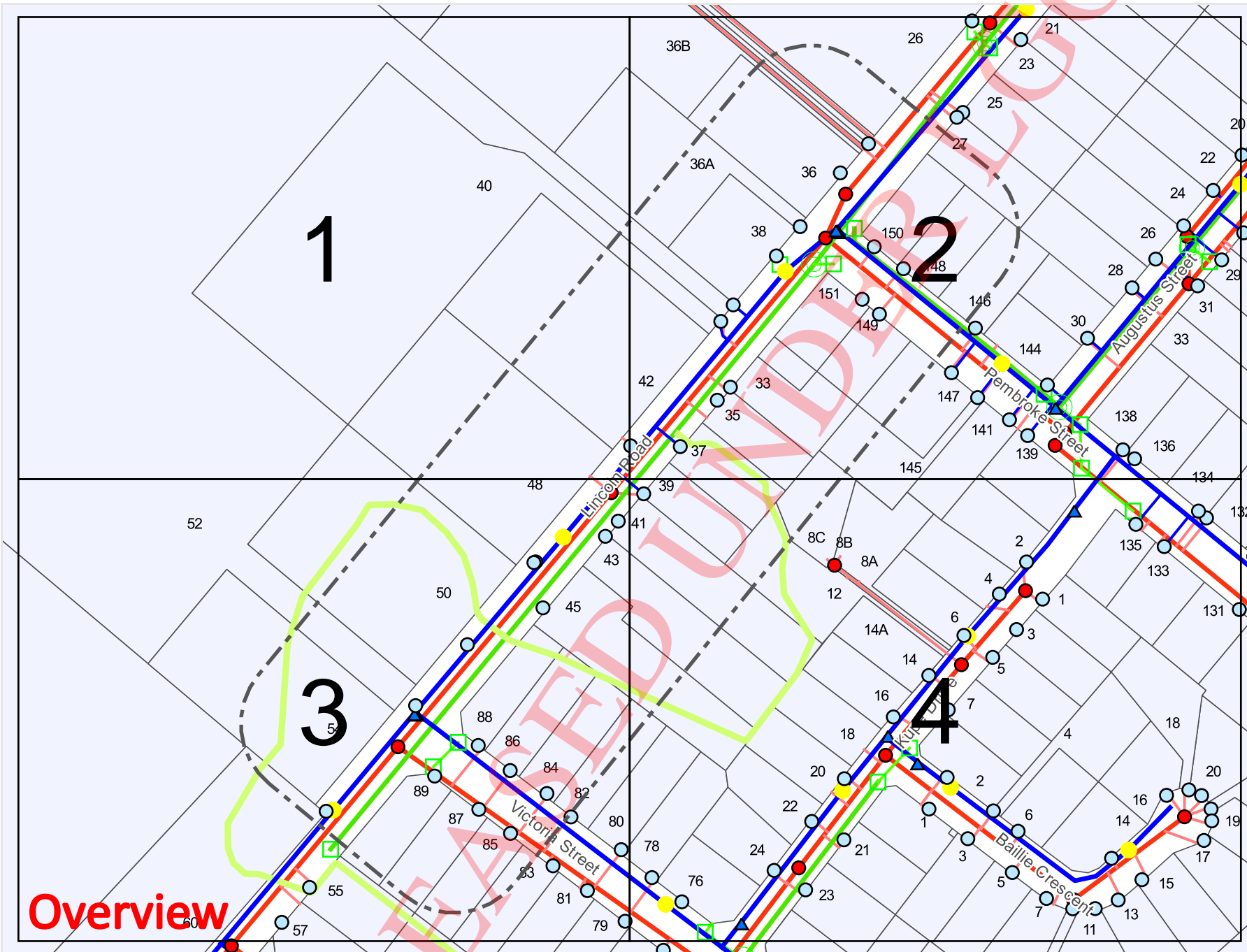
The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the beforeUdig service, this confirmation will not provide details of those asset owners so it is **your responsibility** to identify and contact directly any asset owners not listed here. Known Non-Member Utilities are listed on the beforeUdig website under the 'Utilities & Members' Tab.

Any asset owner name listed below with the status 'Not Notified' is an associate member of beforeUdig which only notifies you of their presence and you will need to contact them directly.

Where an Asset Locate has been requested, Utilities will endeavour to respond to your Preferred Locate Date, where possible. Asset owners highlighted by asterisks ** **Do Not** supply plans and/or information regarding the existence of underground assets on private property. # Asset owners highlighted with a hash request you reference their attachment for further instructions on how to obtain plans.

Seq. No.	Authority Name	Phone	Status
9400637	Carterton District Council - CAR Only	0277525666	CAR Not Required
9400638	Carterton District Council - Water & Waste	0272806281	Notification Sent
9400640	Chorus **	0800822003	Notification Sent
9400641	LINZ	044983835	Notification Sent
9400639	Powerco Electricity - Detect Services	0274454860	Notification Sent

END OF UTILITIES LIST



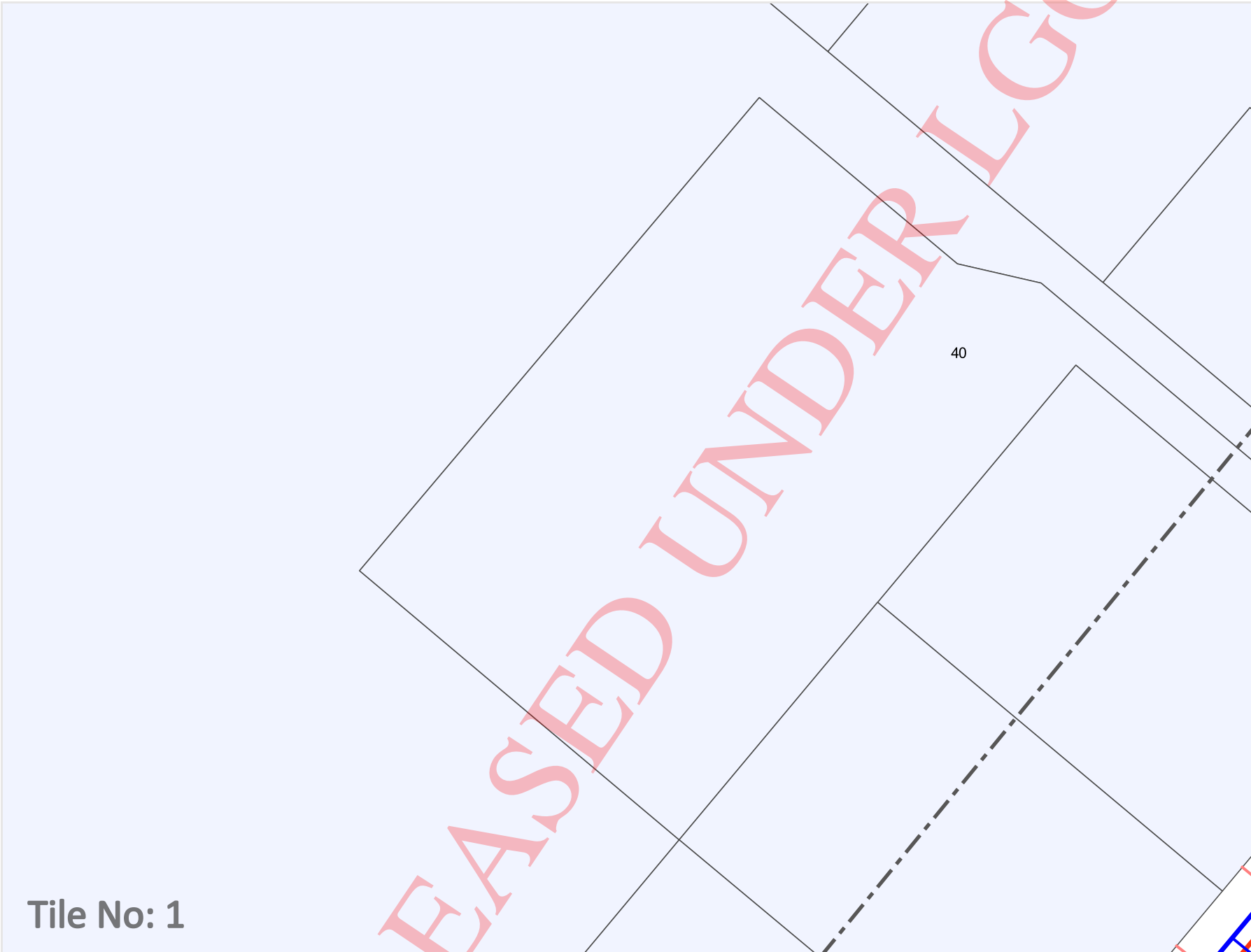
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- Utility points**
- Gabion basket
 - Manhole
 - Soakpit
 - Sump
 - Inspection point
 - ▲ Sewer valve
 - Lamphole
 - Manhole
 - ▲ Water valve
 - Water toby
 - Air valve
 - Hydrant
- Utility lines**
- Open channel
 - Crossing
 - Cutoff drain
 - Main
 - Lateral
 - Sump lead
 - Rising main
 - Rising lateral
 - Sewer main
 - Lateral
 - Water main
 - Rider main
 - Lateral
- Water race - Taratahi**
- Pipe
 - Stream
 - Water Race
- Water race - Carrington**
- Pipe
 - Stream
 - Water Race
 - Wooden Box



Scale: 1:2050
 Expires: 23 Jun 2021

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Carterton District Council nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Overview



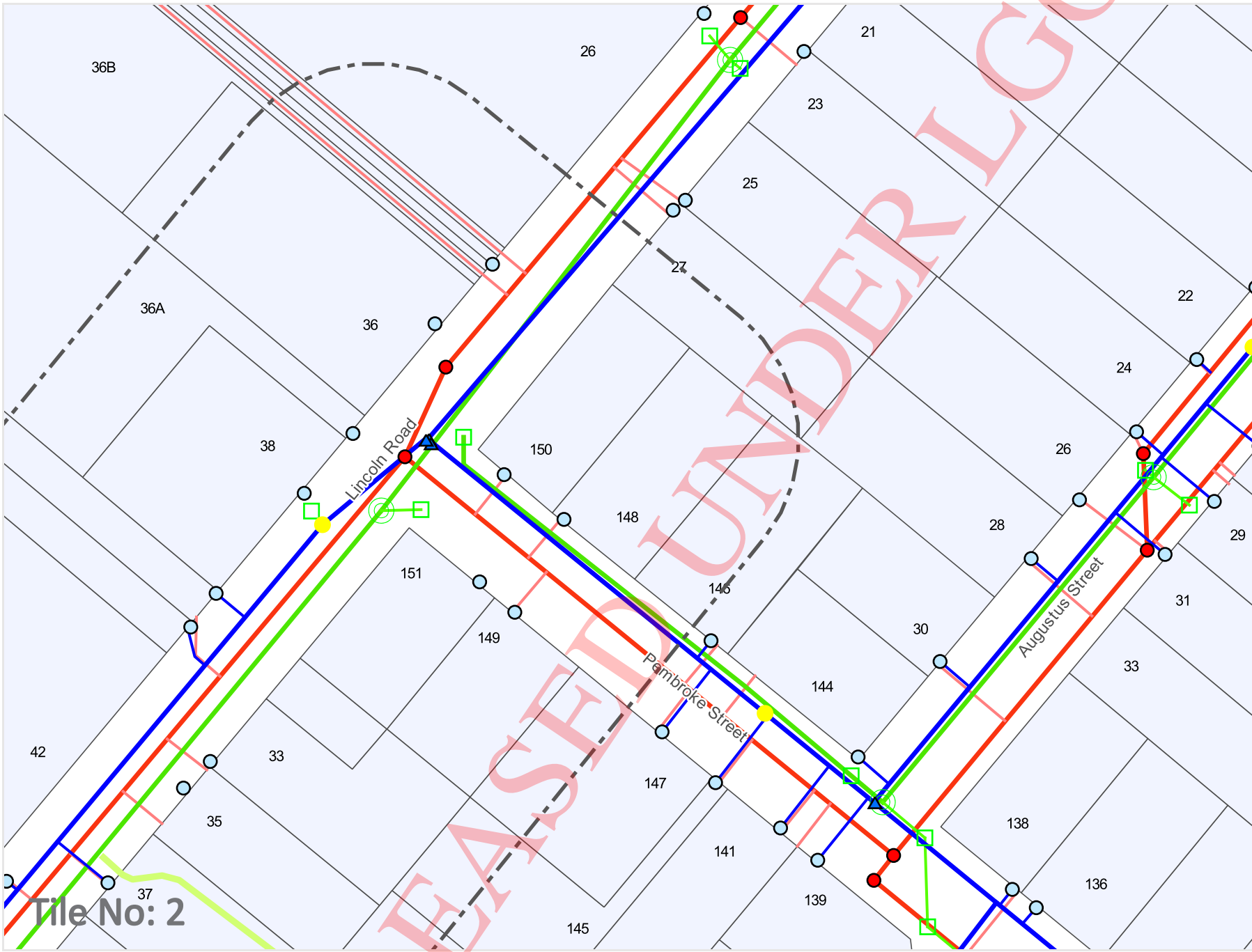
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- Utility points**
- Gabion basket
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 - Soakpit
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 - Manhole
 - Water valve
 - Water toby
 - Air valve
 - Hydrant
- Utility lines**
- Open channel
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 - Lateral
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 - Rising lateral
 - Sewer main
 - Lateral
 - Water main
 - Rider main
 - Lateral
- Water race - Taratahi**
- Pipe
 - Stream
 - Water Race
- Water race - Carrington**
- Pipe
 - Stream
 - Water Race
 - Wooden Box



Scale: 1:1000
 Expires: 23 Jun 2021

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Tile No: 1



Legend

Utility points

- Gabion basket
- Manhole
- Soakpit
- Sump
- Inspection point
- ▲ Sewer valve
- Lamphole
- Manhole
- ▲ Water valve
- Water toby
- Air valve
- Hydrant

Utility lines

- Open channel
- Crossing
- Cutoff drain
- Main
- Lateral
- Sump lead
- Rising main
- Rising lateral
- Sewer main
- Lateral
- Water main
- Rider main
- Lateral

Water race - Taratahi

- - - Pipe
- Stream
- Water Race

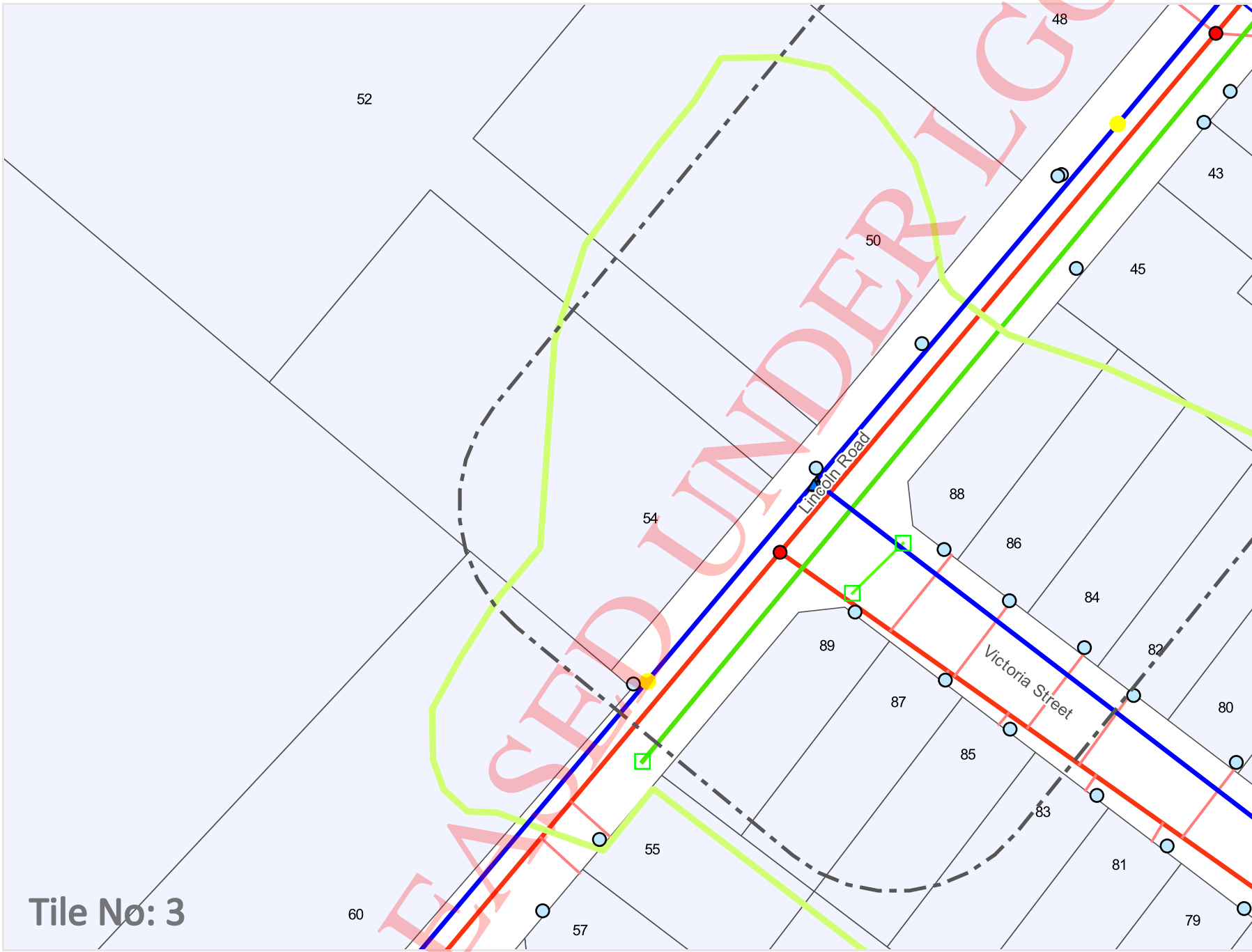
Water race - Carrington

- - - Pipe
- Stream
- Water Race
- - - Wooden Box

N
 Scale: 1:1000
 Expires: 23 Jun 2021

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Tile No: 2



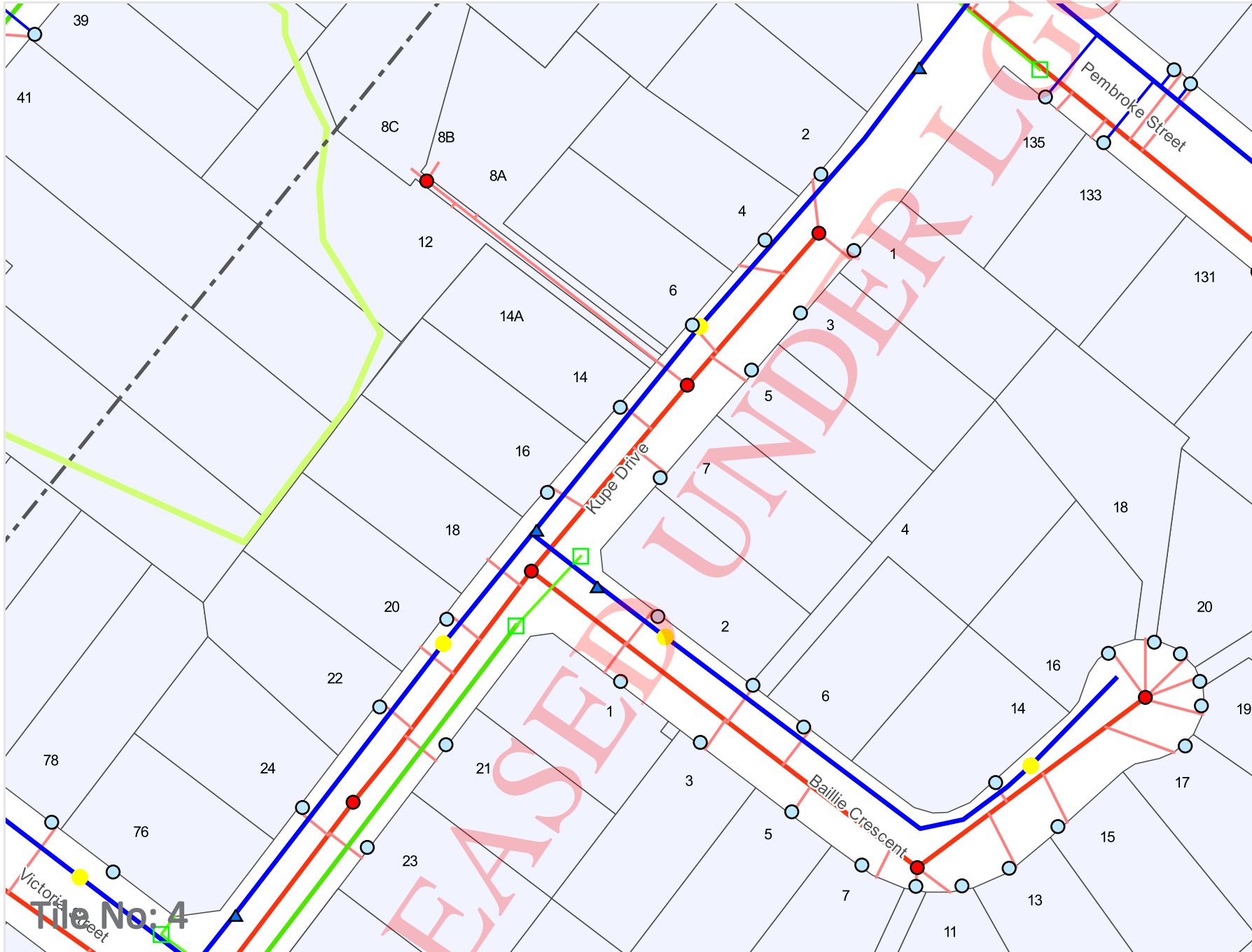
- Legend**
- Utility points**
- Gabion basket
 - Manhole
 - Soakpit
 - Sump
 - Inspection point
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- Water race - Taratahi**
- - - Pipe
 - Stream
 - Water Race
- Water race - Carrington**
- - - Pipe
 - Stream
 - Water Race
 - - - Wooden Box



Scale: 1:1000
Expires: 23 Jun 2021

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Tile No: 3



Legend

Utility points

- Gabion basket
- Manhole
- Soakpit
- Sump
- Inspection point
- Sewer valve
- Lamphole
- Manhole
- Water valve
- Water toby
- Air valve
- Hydrant

Utility lines

- Open channel
- Crossing
- Cutoff drain
- Main
- Lateral
- Sump lead
- Rising main
- Rising lateral
- Sewer main
- Lateral
- Water main
- Rider main
- Lateral

Water race - Taratahi

- Pipe
- Stream
- Water Race

Water race - Carrington

- Pipe
- Stream
- Water Race
- Wooden Box



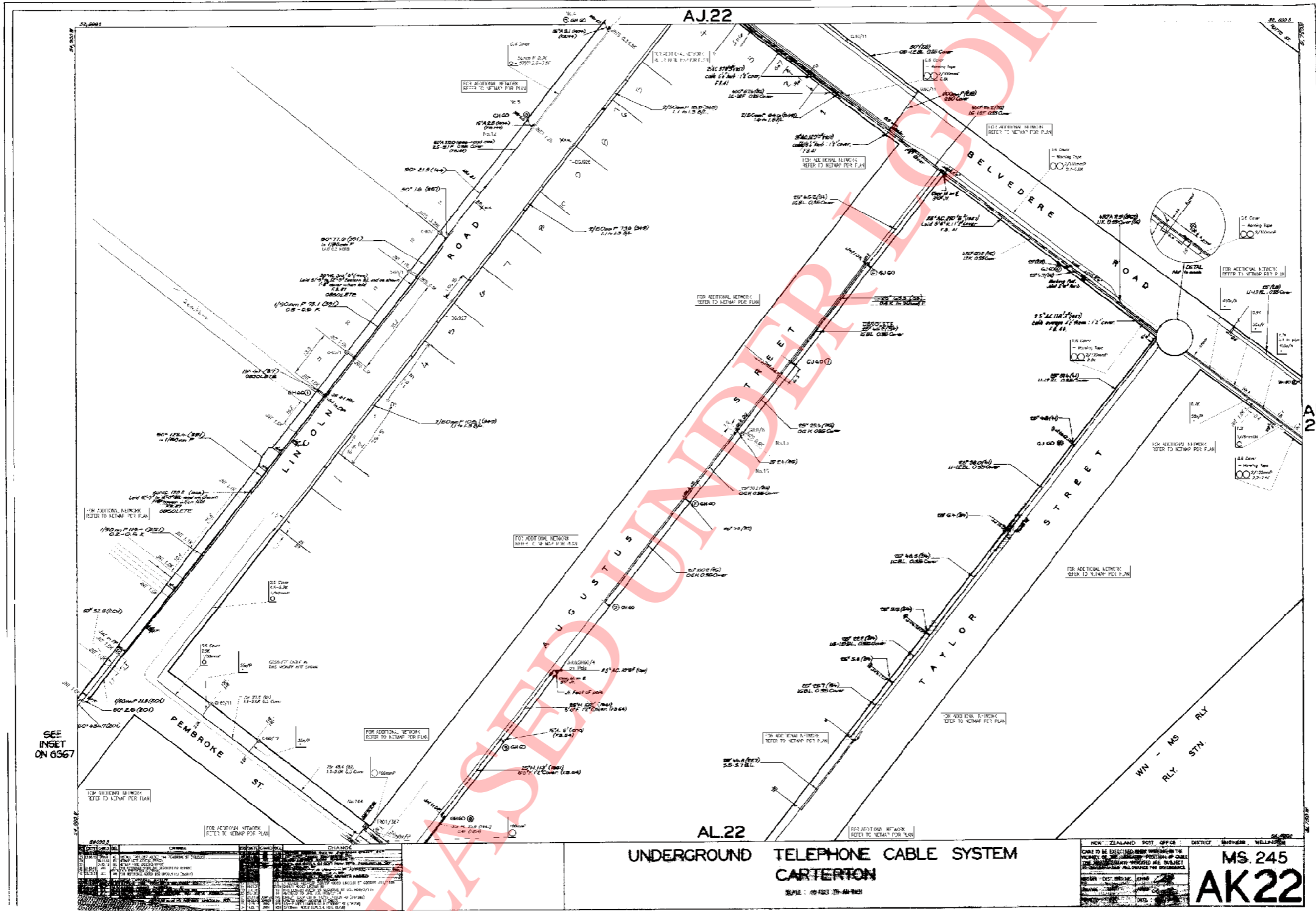
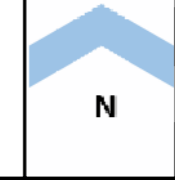
Scale: 1:1000
 Expires: 23 Jun 2021

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Carterton District Council nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

WARNING: Buried services are widespread and it should be assumed that they are present until it is proven otherwise.
Cables should be expected to be found at ANY depth.

In most instances Chorus plans do NOT show house service feeds on private property.
Refer to cover letter provided with your request for additional information - use all plans provided in conjunction with each other
You are responsible for interpreting the information provided and should refer to Worksafe.govt.nz for the 'Guide for safety with underground services'
For assistance contact Chorus Network Protection on 0800 822 003 or if you suspect damage has occurred contact 0800 463 896 opt 2

Plan Name	AK22
Plan ID	168494
Version	GV
Current at	26/05/2021



1
2
3
4
5
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8
9
10

AK 22

AK 22

SEE INSET ON 6567

<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>26/05/2021</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </table>	NO.	DATE	DESCRIPTION	1	26/05/2021	ISSUED FOR CONSTRUCTION	<p>PROJECT DATA</p> <p>PROJECT NO: 168494</p> <p>PLAN NO: AK22</p> <p>DATE: 26/05/2021</p>
NO.	DATE	DESCRIPTION					
1	26/05/2021	ISSUED FOR CONSTRUCTION					

UNDERGROUND TELEPHONE CABLE SYSTEM
CARTERTON
SCALE: 1:100

NEW ZEALAND POST OFFICE DISTRICT ENGINEER WELLINGTON

MS. 245
AK22

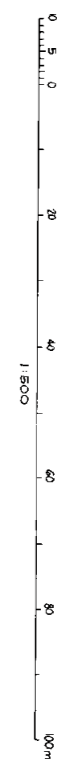
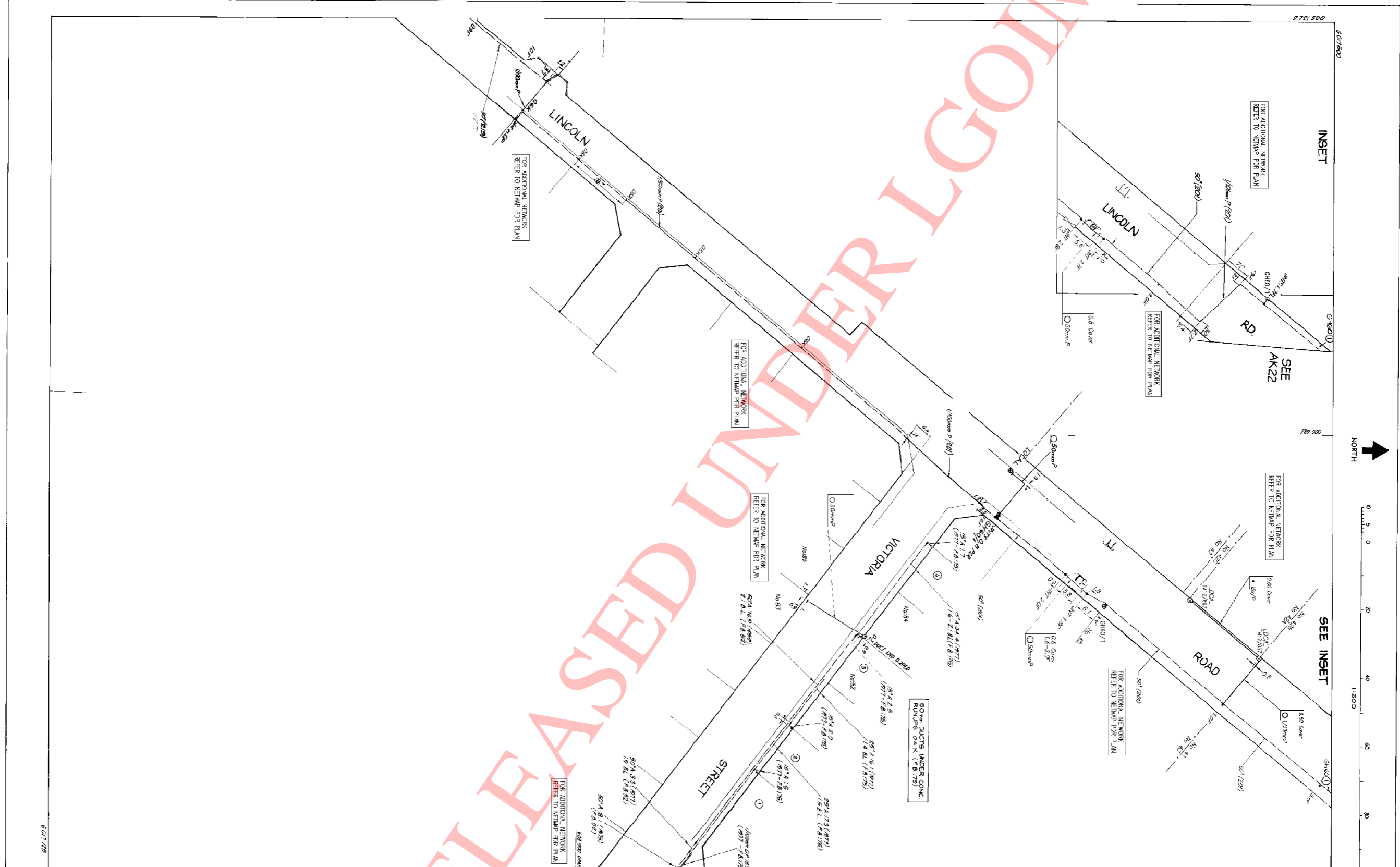
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For assistance contact Chorus Network Protection on 0800 822 003 or if you suspect damage has occurred contact 0800 463 896 opt 2



Plan Name	GG61
Plan ID	169015
Version	GL
Current at	26/05/2021

e-Order Filemaster "D"
Sheet Number: 157841
SERVADVISIVE PLAN HANGER



526 - GG61

OCD DIFF
+5.6N
+5.5E

GE 61	
AN 22	AK 22
GH 61	

DEL.	CHKD	DATE	ISS	CHANGE
				GH40/1 ADD'D. LINCOLN ST. DATA FOR NEWCASTLE. LOCAL ADDRESS DATA FOR LINCOLN ST. LOCAL ADDRESS DATA FOR VICTORIA ST. LOCAL ADDRESS DATA FOR STREET. LOCAL ADDRESS DATA FOR ROAD. LOCAL ADDRESS DATA FOR INSET. LOCAL ADDRESS DATA FOR AK22. LOCAL ADDRESS DATA FOR SEE INSET.

DRAWN: MG	CHKD: AB	APPD: JDF	DATE: 13-3-20
-----------	----------	-----------	---------------

CARTERTON
UNDERGROUND TELEPHONE CABLE SYSTEM
CAUTION
POSITIONAL MEASUREMENTS ARE SUBJECT TO REASONABLE TOLERANCE. COVER AT INSTALLATION WAS: ROADWAY 0.50m, FOOTWAY 0.35m. UNLESS SHOWN OTHERWISE.
NOTE: COVER MAY HAVE CHANGED AND MUST BE CHECKED ON SITE.

NZPO DISTRICT ENGINEER MASTERTON

NZMS REF: 526-500/127.61

NZPO REF: MS 245

GG61



Underground Electricity Enquiry Sheet

Date/Time Recd: 26/05/2021 6:22:00 p.m. **Sequence No:** 9400639 **Enquiry No:** 550367
Enquiry Type: Personal Mail Fax Phone E Mail
Company: Calibre **Phone:** 048947822
Contact Name: Swastika Mishra **Mobile:** 048947822
Location of Work: Lincoln Road; Carterton
Additional Info on Property: Lincoln Road. Please provide the pdfs for the underground and overhead utilities in the marked area.
Description of Work: Major Earthworks Cutting/Filling
Proposed Commencement Date: 29/05/2021

Information Provided

Electrical Record Plans Showing Cables	
<input checked="" type="checkbox"/> 230/400V <input type="checkbox"/> 11kV <input type="checkbox"/> 22kV <input type="checkbox"/> 33kV <input type="checkbox"/> 66kV <input type="checkbox"/> Comms <input type="checkbox"/> Fibre Optic	
<input type="checkbox"/> NO ELECTRICITY IN AREA	
Plan	550367 - Lincoln Road Plans.pdf
Strategic Cables in Area?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Standover may be required:	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Plans Issued to:	Swastika Mishra Date/Time: 27/05/2021 11:08 AM
On-Site Location Required:	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/> Date: Time:
General Comments:	GENERATED: 8/8 Plans
Processed By:	Nehaa Shah

Conditions

- The purpose of this document is to outline conditions that apply and precautions that should be taken when undertaking excavation work in the vicinity of underground power cables and gas pipes. It must be read in conjunction with the Department of Labour Occupational Safety & Health Service booklet – Guide for Safety with Underground Services
- Information concerning the location of underground Powerco owned electrical cables, gas mains and services is freely available from Powerco and must be obtained prior to commencing any excavation work
- The information shown on the plans provided relate only to Powerco's electricity and gas reticulation. Other relevant service authorities should be contacted to obtain information concerning their services
- The plans provided may not necessarily indicate all earth wires, streetlight cables, redundant cables and pipes or all service cables and pipes (e.g. cables and pipes, in road reserve, connecting the Consumer to Powerco's reticulation system)
- The record plans must be kept on site while excavations are in progress
- On-site cable and pipe location marking carried out by Powerco is to be used as a guide only and no warranty as to its accuracy is given or implied
- It must be noted that it is the Contractors' responsibility to determine the exact location of the underground electrical cables and gas pipes by hand-digging. In the event of being unable to locate the power cable or gas pipe, Powerco should be contacted for further assistance prior to commencing any further excavation work

Damage to Powerco Underground Plant:

Any accidental damage to power cables or gas pipes, however slight, must be reported to Powerco immediately. This will enable prompt and cost efficient repairs to be carried out and will avoid subsequent complications and more expensive remedial work being undertaken should a fault develop at a later date.

- To report any damage to power cables, contact the Powerco Help Desk on 0800 769 372 immediately
- To report any damage to gas pipes contact, the Powerco Help Desk on 0800 111 848 immediately

Clearances:

It is the responsibility of the person in charge of the work to ensure that the minimum clearances shown below are maintained at all times during the progress of the work. This person is also responsible for compliance with the requirements of the relevant Acts and Regulations, Codes of Practice as well as the relevant WorkSafe New Zealand booklet "Guide for Safety with Underground Services".

Electricity Regulations 2010 Regulation 17 (1) – A person who carries out any construction, building, excavation, or other work on or near an electric line must maintain safe distances in accordance with ECP 34.

NZ Electrical Code Of Practice No 34 : 2001 for Electrical Safe Distances - Section 2 - Minimum Safe Distances for Excavation and Construction Near Overhead Electric Line Supports.

Underground Power Cables:

1. Machine digging

- (a) **Cables not classed as strategic:** Machine digging is not permitted closer than 500mm from any 11,000 Volt, 6,600 Volt, 400/230 Volt or communication cable (not classed as strategic) unless the position of the cables has been verified by hand digging and exposing them first
- (b) **Strategic Cables:** Machine digging is not permitted closer than 1.5m from any Strategic power cable or communication cable. This includes 33,000 Volt Pressure Assisted Oil Filled Power Cables, 66,000 Volt 33,000 Volt and 22,000 Volt solid power cables, 11,000 feeder cables from zone substations and fibre optic communication cables. Any excavation work within this distance must be performed by hand digging and under the observation of a Powerco Approved Works Protection Observer including the backfilling operation
- (c) Please refer to the Powerco Standard "Excavation Works in the Vicinity of Strategic Cables and Pipes" before commencing excavation work in the vicinity of Strategic Cables

2. Personnel on-site

- (a) It will be necessary for a Powerco Approved Works Protection Observer to be on-site where any strategic power cable is to be exposed or crossed

3. Notification of work near Strategic Power Cables

- (a) At least 2 working days notice must be given to Powerco prior to any excavation work taking place near any solid 66,000 Volt, 33,000 Volt and 22,000 Volt power cables including 11,000 Volt feeder cables from zone substations and fibre optic communication cables. Depending on the extent of the excavation work, Powerco may require these cables to be de-energised prior to any excavation work taking place around them. This may involve additional time to arrange for the isolation and possible notification to Consumers
- (b) At least 10 working days notice must be given to Powerco prior to any excavation work taking place near any 33,000 Volt Pressure Assisted Oil Filled Power Cables. This is due to Powerco requiring these cables to be de-energised prior to any excavation work taking place around them. This may involve an additional 5 working days if notification to Consumers is required
- (c) It is the Excavation Contractor's responsibility to contact the Powerco Help Desk 0800 769 372 for the above notifications

4. Location of other services

- (a) No service shall be laid closer than 300mm from any 11,000 Volt, 6,600 Volt cable, or closer than 200mm from any 400/230 Volt or communication cable



Underground Electricity Enquiry Sheet

No service shall be laid closer than 500mm from any 66,000 Volt, 33,000 Volt or 22,000 Volt cable

RELEASED UNDER LGOMIA



Utility Details

Please be advised the person below has requested information about underground assets in your jurisdiction. You are required to respond within 2 working days and reference the Job Number, Sequence Number and the User Reference (where supplied).

To:	Graham Mist	Enquiry Date:	26/05/2021
Utility ID:	51355	Priority Type:	Normal
Utility Name:	Powerco Electricity - Detect Services	Enquiry Medium:	Web
Email:	b4udig_MastertonElect@powerco.co.nz		

Customer Details

Customer ID:	148705	Contact:	Ms Swastika Mishra
Company:	Calibre	Phone:	048947822
Address:	Calibre Te Aro, Kordia House, Level 13/11 Te Aro Wellington City 6011	Mobile:	Not Supplied
Email:	Swastika.Mishra@calibregroup.com	Fax:	Not Supplied

Proposed Site Location



WARNING: The adjacent map displays the extent of the proposed dig site as specified and confirmed by the beforeUdig customer.

User Reference:	Lincoln Road
Working on Behalf of:	Carterton District Council
Start Date:	29/05/2021
End Date:	31/05/2021
Address:	Lincoln Road Carterton Carterton 5713
For Planning:	Yes
Plans Requested:	Yes
Asset Locate:	No
Preferred Locate Date:	Not Supplied
Workplace Location:	Both
Location in Road:	CarriageWay, Footpath, Berm
Nature of Works:	Major Earthworks Cutting/Fill

Additional Work Site Notes:

Please provide the pdfs for the underground and overhead utilities in the marked area.



Electricity Network

- Customer Location
- Distribution Transformer
- Switch (Underground)
- Fuse (Underground)
- Circuit Breaker
- Recloser | Sectionalizer
- Pad or Vault (Ground Mounted)
- Pole

Boxes			
Distribution	Service	Meter	Control

Lines		
UG	Voltage / Function	OH
	110kV	
	33kV to 66kV	
	22kV	
	11kV	
	3.3kV to 6.6kV	
	Unknown	
	Proposed	
	LV Distribution Service	
	Streetlight	
	Water Heater Pilot	
	Communications	
	Out of Service	
	Oil Filled	
	Oil Filled Out of Service	
	Traffic Light	
	Verandah Light	
	Duct	

Reference Features

- Building
- Manhole
- Sump
- Box
- Bank
- Fence
- Kerb/Path
- Fire Hydrant
- Survey Peg
- Post | Other
- Easement
- Trees/Lines
- Unusual Depth

- Locate/markout before you dig
- Hand dig before excavating
- Can't find it? In a different place? Call 0800 769 372 for help



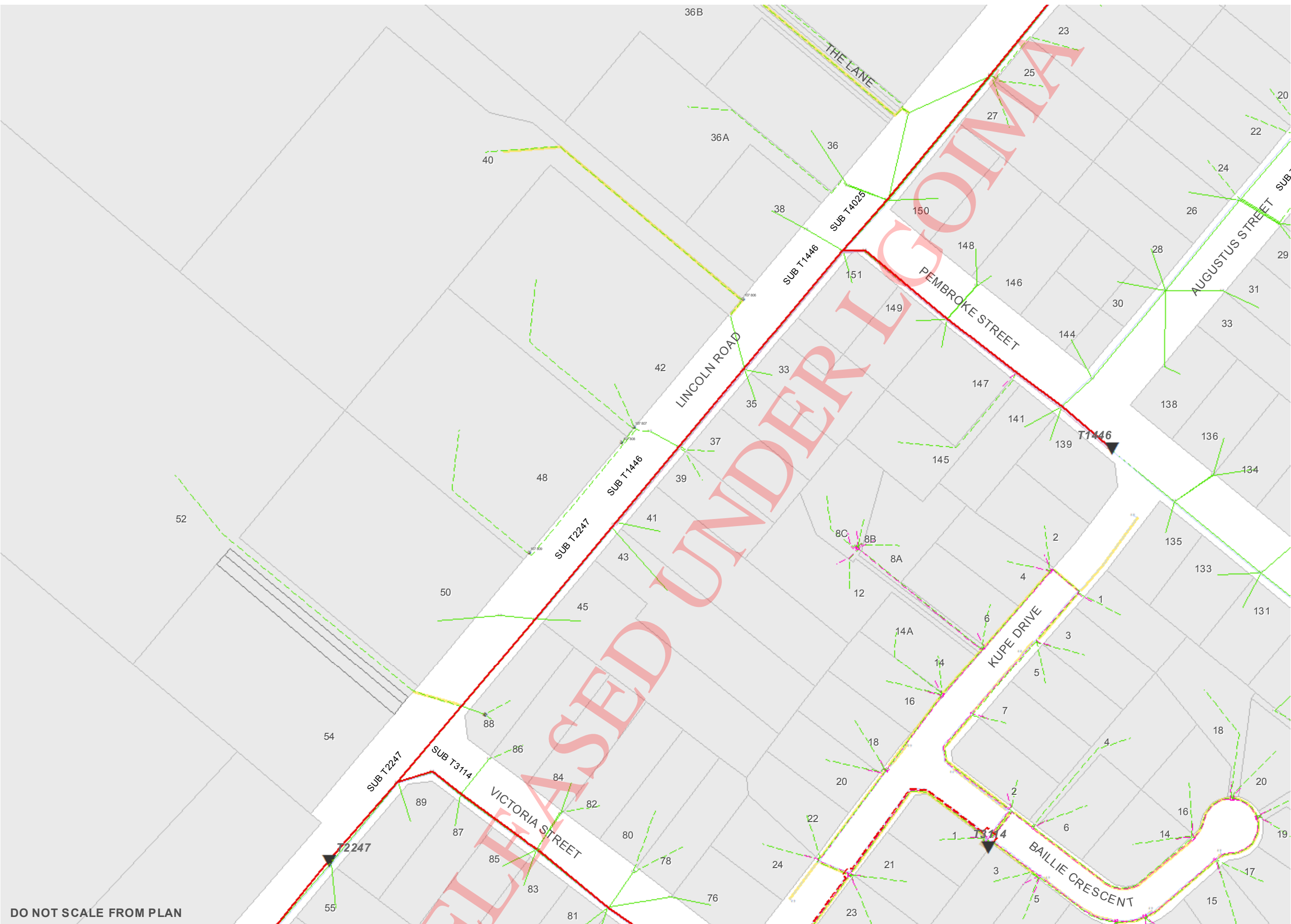
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ELECTRICITY NETWORK - PLANNING AND DESIGN

550367 - Lincoln Road - Overview - Aerial

For design or planning purposes only. This plan expires 3 months from this date 27/05/2021. For more information go to www.powerco.co.nz
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Electricity Network

- Customer Location
- Distribution Transformer
- Switch (Underground)
- Fuse (Underground)
- Circuit Breaker
- Recloser | Sectionalizer
- Pad or Vault (Ground Mounted)
- Pole

Boxes			
Distribution	Service	Meter	Control

Lines			
UG	Voltage Function	OH	
	110kV		
	33kV to 66kV		
	22kV		
	11kV		
	3.3kV to 6.6kV		
	Unknown		
	Proposed		
	LV Distribution Service		
	Streetlight		
	Water Heater Pilot		
	Communications		
	Out of Service		
	Oil Filled		
	Oil Filled Out of Service		
	Traffic Light		
	Verandah Light		
	Duct		

Reference Features

- Building
- Manhole
- Sump
- Box
- Bank
- Fence
- Kerb/Path
- Fire Hydrant
- Survey Peg
- Post | Other
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- Treeline
- Unusual Depth

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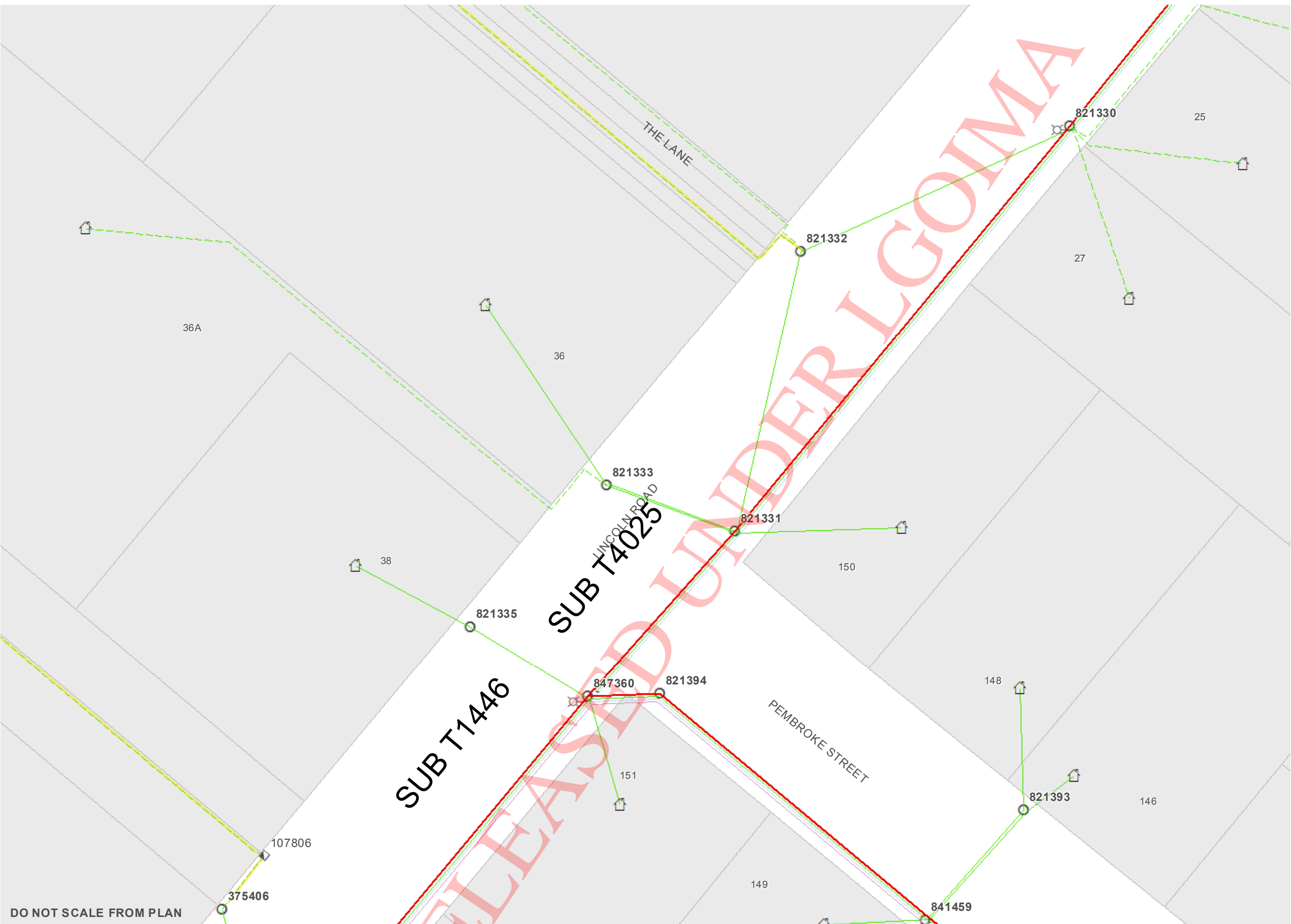


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ELECTRICITY NETWORK - PLANNING AND DESIGN 550367 - Lincoln Road - Overview

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Electricity Network

- Customer Location
- Distribution Transformer
- Switch (Underground)
- Fuse (Underground)
- Circuit Breaker
- Recloser | Sectionalizer
- Pad or Vault (Ground Mounted)
- Pole

Boxes

Distribution	Service	Meter	Control

Lines

UG	Voltage Function	OH
	110kV	
	33kV to 66kV	
	22kV	
	11kV	
	3.3kV to 6.6kV	
	Unknown	
	Proposed	
	LV Distribution Service	
	Streetlight	
	Water Heater Pilot	
	Communications	
	Out of Service	
	Oil Filled	
	Oil Filled Out of Service	
	Traffic Light	
	Verandah Light	
	Duct	

Reference Features

Building	Fire Hydrant
Manhole	Survey Peg
Sump	Post Other
Box	Easement
Bank	Treeline
Fence	Unusual Depth
Kerb/Path	

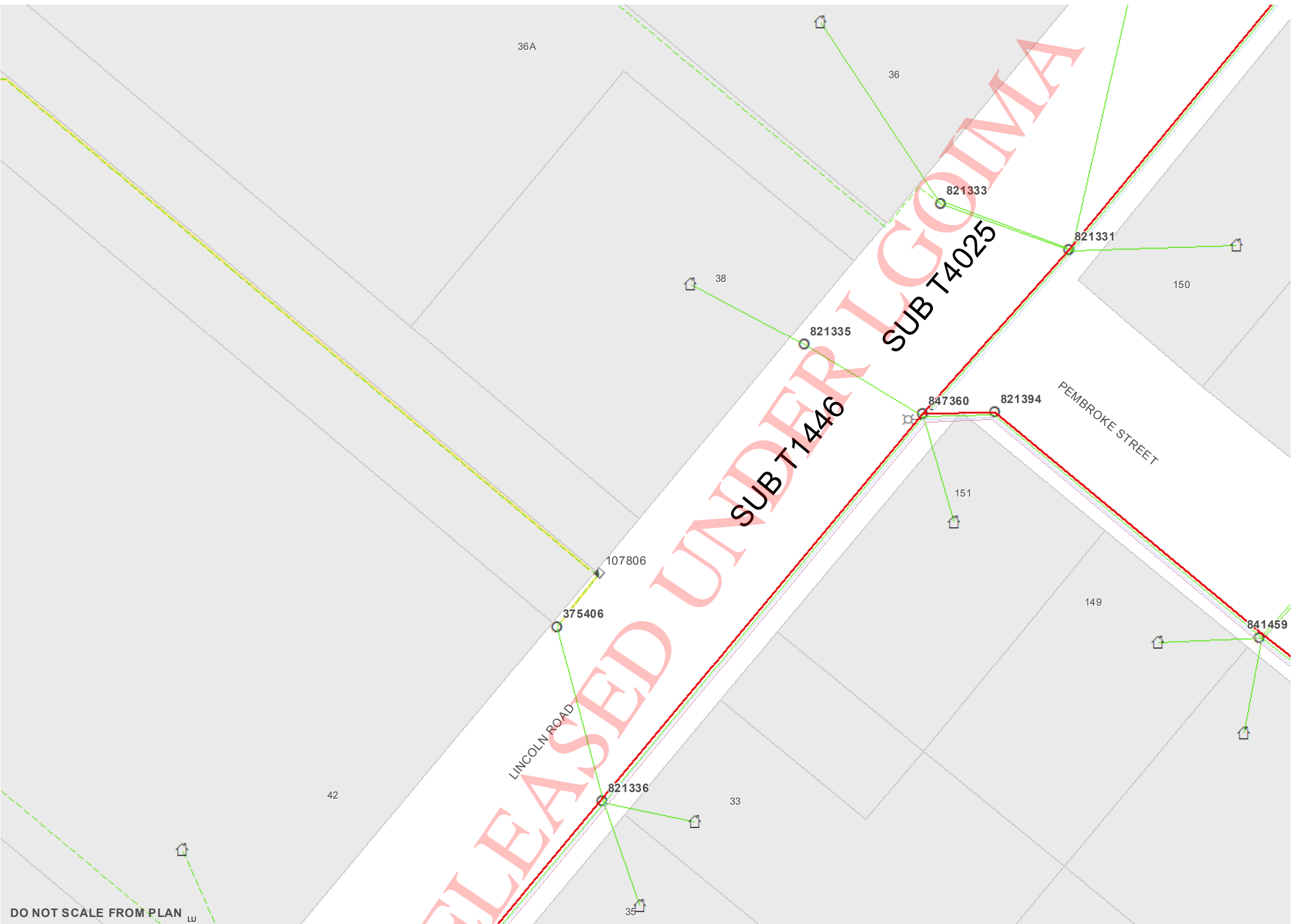
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ELECTRICITY NETWORK - PLANNING AND DESIGN
550367 - Lincoln Road - Sheet 1

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Electricity Network

- Customer Location
- Distribution Transformer
- Switch (Underground)
- Fuse (Underground)
- Circuit Breaker
- Recloser | Sectionalizer
- Pad or Vault (Ground Mounted)
- Pole

Boxes

Distribution	Service	Meter	Control

Lines

UG	Voltage Function	OH
	110kV	
	33kV to 66kV	
	22kV	
	11kV	
	3.3kV to 6.6kV	
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	LV Distribution Service	
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Reference Features

- Building
- Manhole
- Sump
- Box
- Bank
- Fence
- Kerb/Path
- Fire Hydrant
- Survey Peg
- Post | Other
- Easement
- Treeline
- Unusual Depth

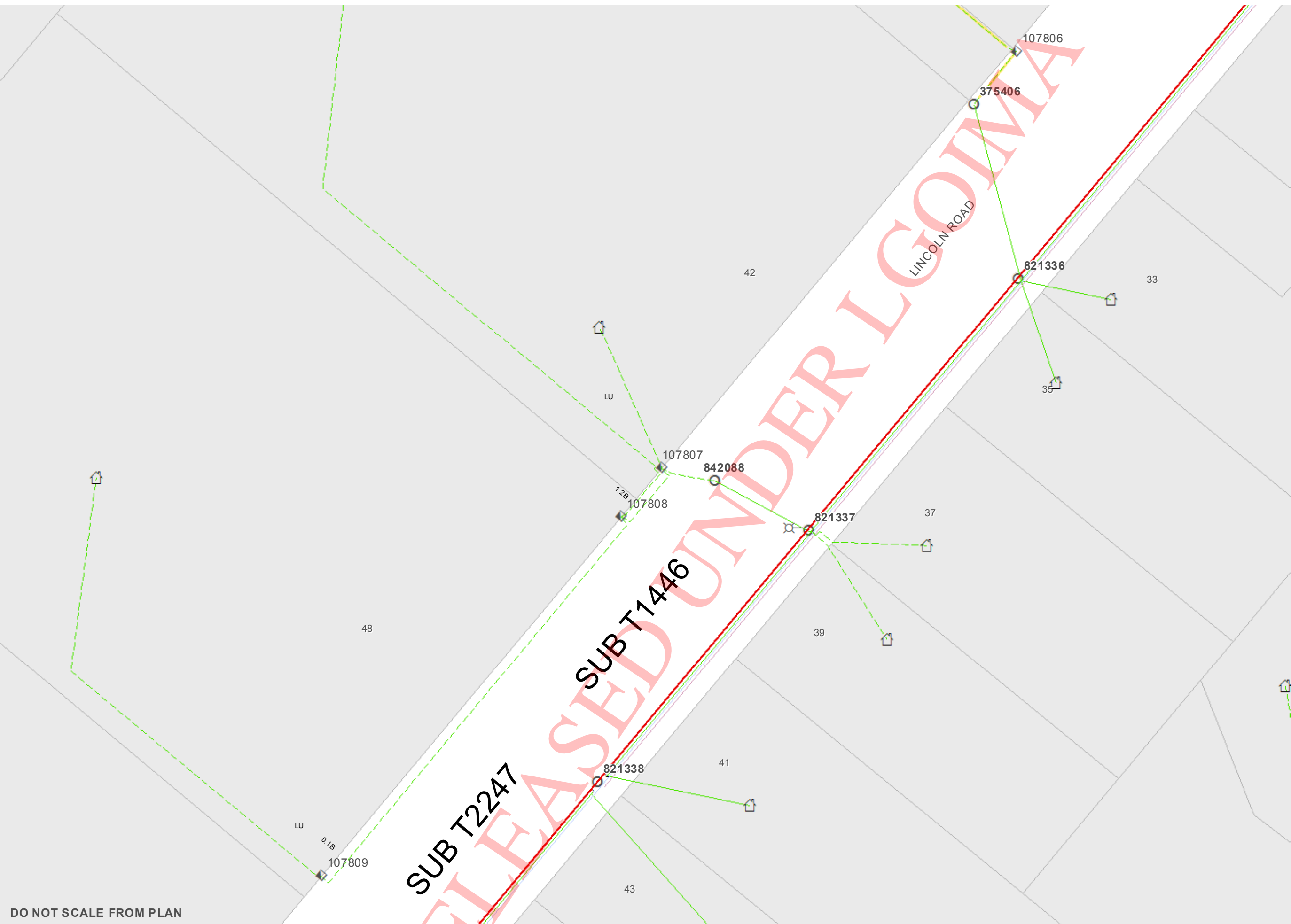
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ELECTRICITY NETWORK - PLANNING AND DESIGN
550367 - Lincoln Road - Sheet 2

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Electricity Network

- Customer Location
- Distribution Transformer
- Switch (Underground)
- Fuse (Underground)
- Circuit Breaker
- Recloser | Sectionalizer
- Pad or Vault (Ground Mounted)
- Pole

Boxes

Distribution	Service	Meter	Control

Lines

UG	Voltage Function	OH
	110kV	
	33kV to 66kV	
	22kV	
	11kV	
	3.3kV to 6.6kV	
	Unknown	
	Proposed	
	LV Distribution Service	
	Streetlight	
	Water Heater Pilot	
	Communications	
	Out of Service	
	Oil Filled	
	Oil Filled Out of Service	
	Traffic Light	
	Verandah Light	
	Duct	

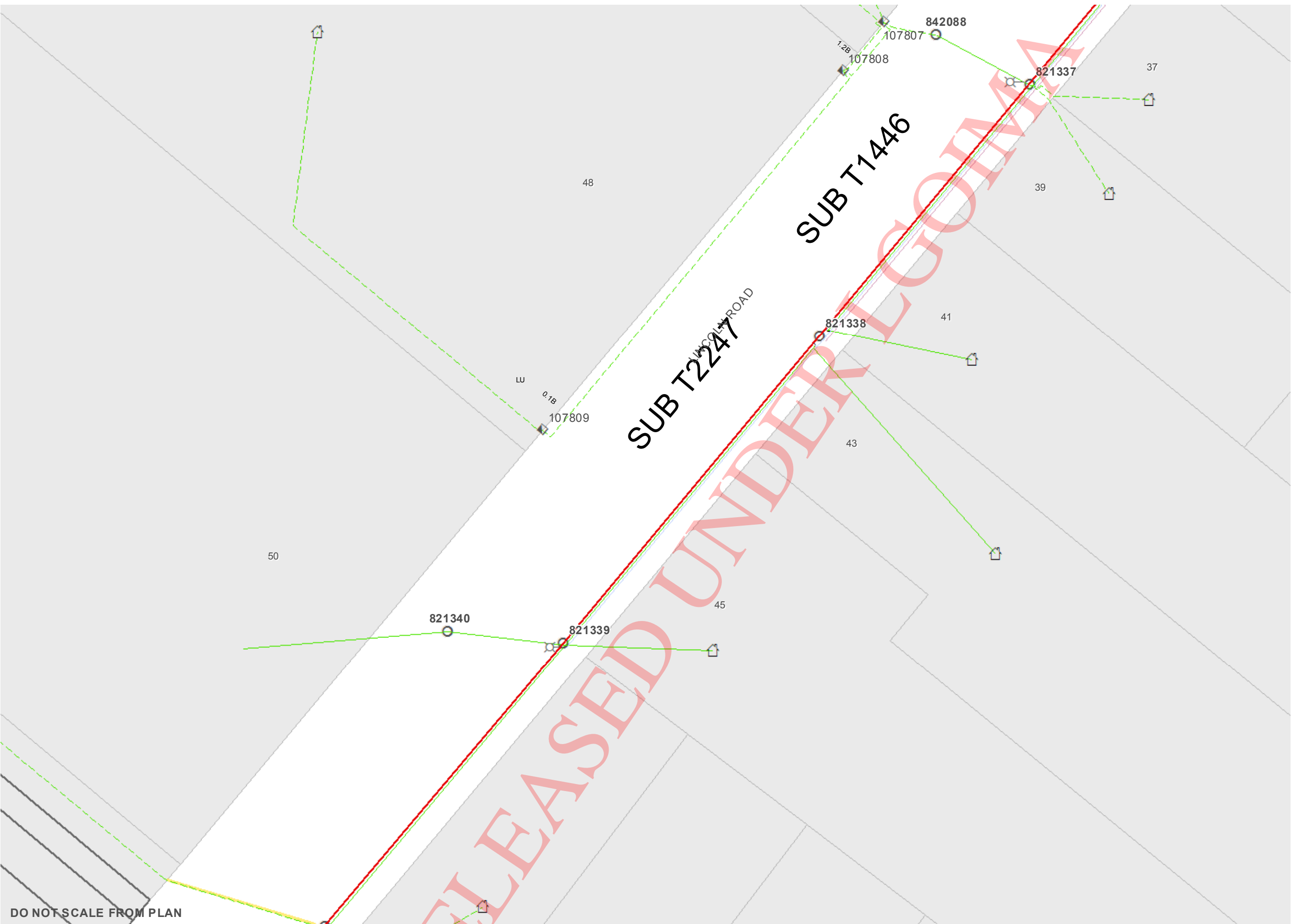
Reference Features

Building	Fire Hydrant
Manhole	Survey Peg
Sump	Post Other
Box	Easement
Bank	Treeline
Fence	Unusual Depth
Kerb/Path	

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Electricity Network

- Customer Location
- Distribution Transformer
- Switch (Underground)
- Fuse (Underground)
- Circuit Breaker
- Recloser | Sectionalizer
- Pad or Vault (Ground Mounted)
- Pole

Boxes

Distribution	Service	Meter	Control

Lines

UG	Voltage Function	OH
	110kV	
	33kV to 66kV	
	22kV	
	11kV	
	3.3kV to 6.6kV	
	Unknown	
	Proposed	
	LV Distribution Service	
	Streetlight	
	Water Heater Pilot	
	Communications	
	Out of Service	
	Oil Filled	
	Oil Filled Out of Service	
	Traffic Light	
	Verandah Light	
	Duct	

Reference Features

- Building
- Manhole
- Sump
- Box
- Bank
- Fence
- Kerb/Path
- Fire Hydrant
- Survey Peg
- Post | Other
- Easement
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- Unusual Depth

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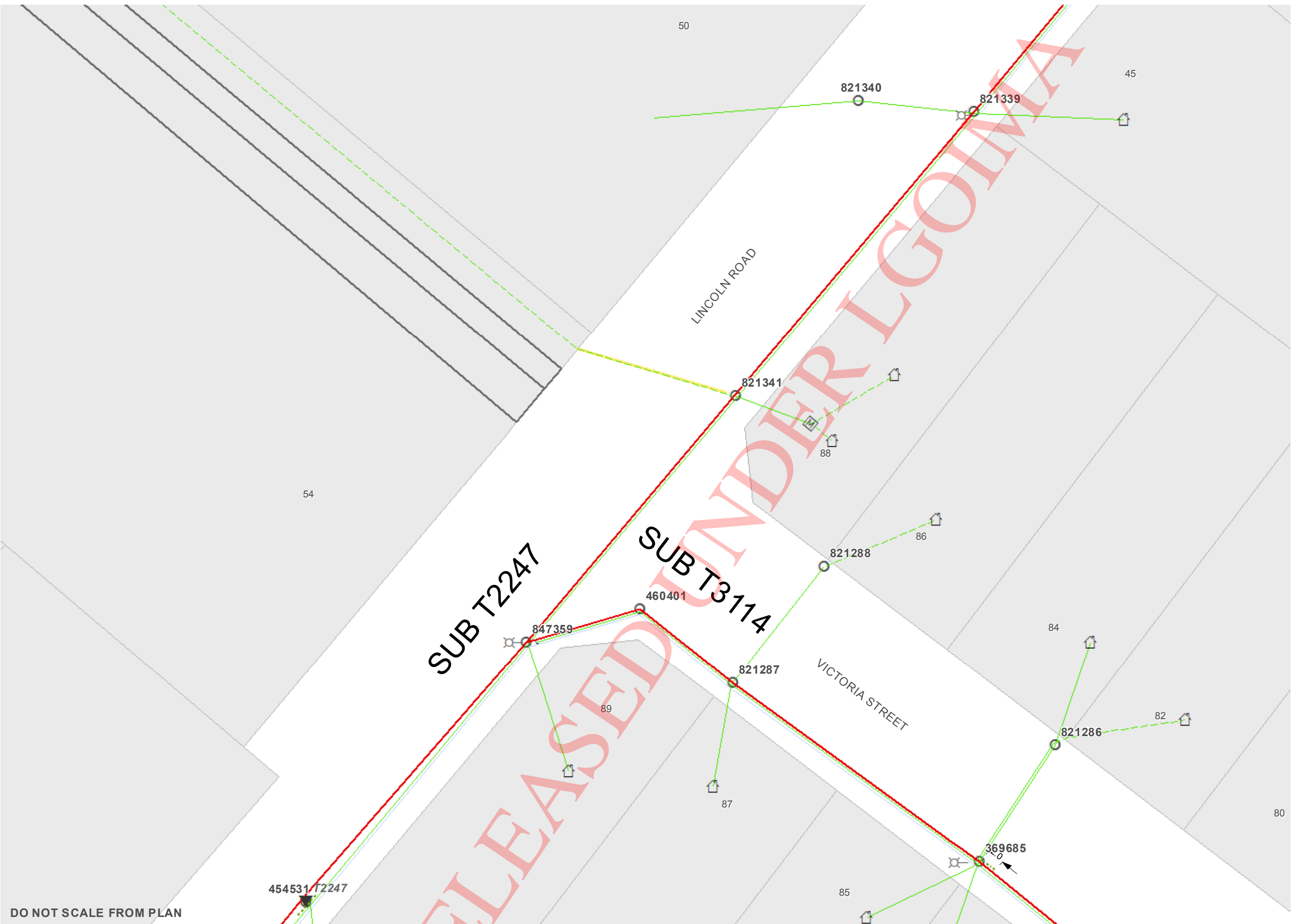


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ELECTRICITY NETWORK - PLANNING AND DESIGN
550367 - Lincoln Road - Sheet 4

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Electricity Network

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- Circuit Breaker
- Recloser | Sectionalizer
- Pad or Vault (Ground Mounted)
- Pole

Boxes

Distribution	Service	Meter	Control

Lines

UG	Voltage Function	OH
	110kV	
	33kV to 66kV	
	22kV	
	11kV	
	3.3kV to 6.6kV	
	Unknown	
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	LV Distribution Service	
	Streetlight	
	Water Heater Pilot	
	Communications	
	Out of Service	
	Oil Filled	
	Oil Filled Out of Service	
	Traffic Light	
	Verandah Light	
	Duct	

Reference Features

- Building
- Manhole
- Sump
- Box
- Bank
- Fence
- Kerb/Path
- Fire Hydrant
- Survey Peg
- Post | Other
- Easement
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- Unusual Depth

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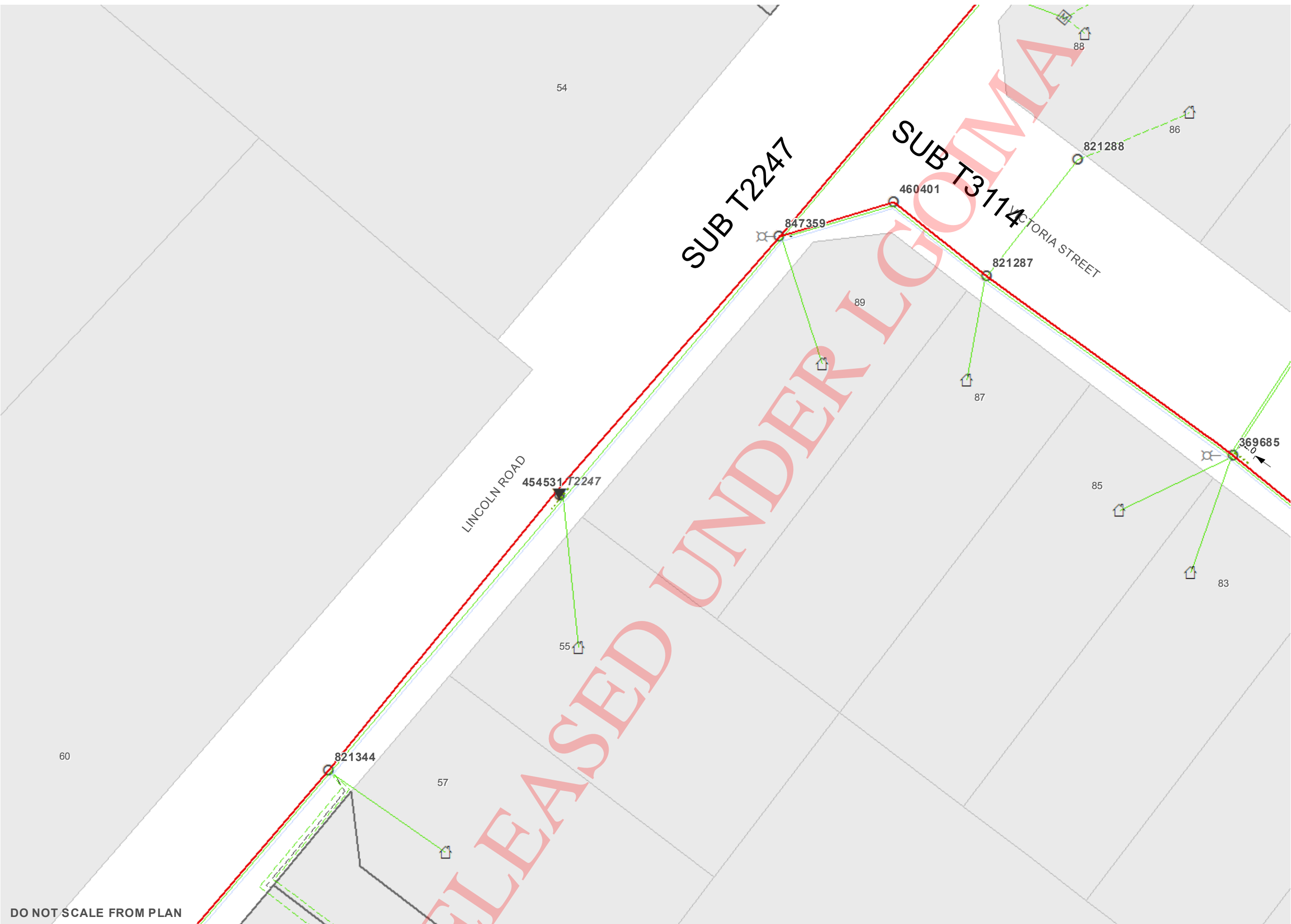
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ELECTRICITY NETWORK - PLANNING AND DESIGN
550367 - Lincoln Road - Sheet 5



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Electricity Network

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- Switch (Underground)
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- Circuit Breaker
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- Pad or Vault (Ground Mounted)
- Pole

Boxes

Distribution	Service	Meter	Control

Lines

UG	Voltage Function	OH
	110kV	
	33kV to 66kV	
	22kV	
	11kV	
	3.3kV to 6.6kV	
	Unknown	
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	LV Distribution Service	
	Streetlight	
	Water Heater Pilot	
	Communications	
	Out of Service	
	Oil Filled	
	Oil Filled Out of Service	
	Traffic Light	
	Verandah Light	
	Duct	

Reference Features

Building	Fire Hydrant
Manhole	Survey Peg
Sump	Post Other
Box	Easement
Bank	Treeline
Fence	Unusual Depth
Kerb/Path	

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ELECTRICITY NETWORK - PLANNING AND DESIGN
550367 - Lincoln Road - Sheet 6



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Contact Us

Calibre Consulting Ltd
149025

Level 13, Kordia House, 109-125 Willis Street
Wellington 6011

PO Box 6643, Wellington 6141
+64 4 384 2029

calibregroup.com