

Variation to Land Use Consent 2190181-RMALUC for Canopy Extension, Packaging Extension & Sign

> Seeka Limited 153 Waipapa Road, Kerikeri

> > June 2025

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Executive Summary

S127 Variation Application

Application O	verview
То	Far North District Council
Applicant	Seeka Limited
Location & Legal Description	153 Waipapa Road, Kerikeri (Lot 3 DP 196433)
Proposal	Variation to Land Use Consent 2190181-RMALUC for Canopy Extension, Packaging Extension & Sign
Zoning	Horticultural Processing & Rural Living (Far North District Plan)
Activity Status	Discretionary Activity to change conditions of land use consent R2190181-RMALUC pursuant to Section 127 RMA.
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2 Introduction

Pursuant to Section 88 of the Resource Management Act 1991 (the Act), Stratum Consultants Limited applies to the Far North District Council for a variation to the conditions of R2190181-RMALUC to add an additional canopy and packaging extension to the packhouse building consented and constructed under R2190181-RMALUC.

The canopy will provide additional area for all weather bin storage and unloading/loading of fruit into the existing packhouse and will be constructed over an existing concrete slab loading area. The packaging area will be added to the southern side of the existing packhouse.

No additional throughput, traffic, staff or parking over and above the existing consent is necessary, As above, the canopy and packaging extensions are only to provide cover over and existing loading/storage area and additional space for packaging.

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In addition, a sign is proposed at the northern front of the site related to the applicants' operations on site.

This variation application is made pursuant to Sections 88 and 127 of the Resource Management Act 1991 and incorporates all information required by Form 9 and Schedule 4 of the Act.

If you have queries relating to this application, please do not hesitate to contact the writer on (07) 571 4500.

3 Site Description

3.1 Legal Description

The applicant company owns the subject property, which is legally described as Lot 3 DP 196433 held in Record of Title (RT) NA124C/509, with of a total area of 6.8752ha. A copy of the RT is attached at Appendix A.

3.2 Relevant Background

The horticultural processing and storage facilities at the subject site have been operating on site for a number of years. The site has been developed to maximise the horticultural processing activity undertaken at the subject site. Resource consents for additions to the facility and earthworks (2190181-RMALUC) & (2190096-RMALUC) were approved in 2018 in order to expand the existing processing and storage facilities to meet increasing demand of fruit supply. A further resource consent (2200059-RMACOM) was issued in 2019 for bulk and location infringements and earthworks for alterations and additions to the site.

A copy of the existing resource consent subject to this application is attached at Appendix C.

3.3 Physical Description

The subject site ("the site") is located at 153 Waipapa Road, Kerikeri and is comprised of two spatial Zones under the Operative District Plan, as shown in figures 2 and 3 below. The majority of the site is comprised of Horticultural Processing Zoned land, with the remainder of the site being comprised of Rural Living Zoned land.

The topography of the site is flat to gently undulating.

The site gains access to Waipapa Road via an existing concrete vehicle entrance and an internal concrete drive at the centre of the site frontage. Traffic from the site also exits onto Waipapa Road via an existing vehicle entrance which is located at the western frontage of the subject site.

The site contains an existing packhouse and cool storage facilities as well as canopies, office space and load out areas which have been developed from 1981 to present.

The site is surrounded by Rural Living Zoned properties on all external boundaries, with the exception of the northwestern boundary, where the adjoining site is zoned Rural Production.

There are no designations or other special features depicted on or near the site according to Councils Operative District Plan Maps.

It should however be noted that although there are no natural hazards shown on the Operative online maps, the Regional Council Flood Maps (along with the PDP maps) show the southern portion of the site to be subject to River Flood Hazards Zones, as shown in Figure 3 below. The south end of the proposed canopy will encroach into this area, however as it is an open-ended structure for storage/loading there will be no effects from flooding and no flood displacement will be created.



Figure 1: Aerial Photograph of the Subject Site (Source: GRIP, 2025)



Figure 2: Sites Zones (Far North ODP Maps, 2025)

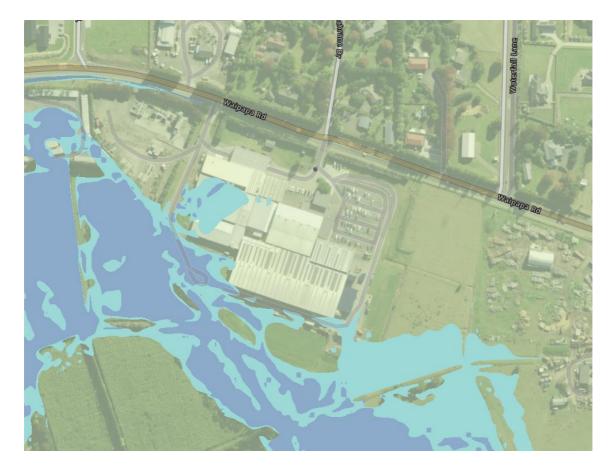


Figure 3: Northland Regional Council River Flood Hazards Map

4 Proposal Description

It is proposed to vary the conditions of R2190181-RMALUC to provide for a new canopy to be constructed on the eastern side of the existing packhouse building consented and constructed under R2190181-RMALUC.

The canopy will provide additional area for all weather bin storage and unloading/loading of fruit into the existing packhouse and will be constructed over an existing concrete slab loading area.

No additional throughput, traffic, staff or parking over and above the existing consent is necessary as above, given the canopy is only to provide cover over and existing loading area.

The proposed canopy will have a roof area of 1430m² (20m wide x 71.5m long) and a maximum height of 10.213m above the existing concrete slab level.

As shown on the architectural plans the canopy will be open ended on the northern, eastern and southern side and will adjoin the eastern side of the existing packhouse.

The proposed packaging extension will have a roof area of approximately 400m², with a height of 4m. The extension is to be full enclosed with a roller door on the southern facade.

There will be no change to the maximum throughput of the site, staff numbers or the consented traffic generation.

In terms of stormwater from the roof area, whilst the area is already hard surfaced, water collected from the new canopy area is to be piped to additional attenuation tanks in the location of the existing stormwater attenuation tanks in the south of the site and as such there will be no increased stormwater runoff.

The proposed sign will be located at the northern frontage of the site adjacent to Waipapa Road as shown on the attached site plans. The sign is a "v" shaped sign primarily for staff attraction and advertising associated with site activities and will have two printed panels 3m high by 6m wide with a maximum height of 5m above ground level as shown on the plans attached at Appendix B.

4.1 Change to Conditions

The proposed changes to the conditions are detailed in the following section (deletions shown as a strikethrough- and insertions in **bold and underlined**).

1. The proposal is to be carried out and completed generally in accordance with the information that forms the application prepared by Stratum Consultants Limited

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dated September 2018, inclusive of Appendices A – J, and the following additional information received:

- Plans prepared by Stratum Consultants Limited entitled 'Drawing Set for Resource Consent' Sheets 00-21, where Sheets 00-19 are marked as 'Issued for Engineering Approval' dated 11 September 2018, and Sheets 20-21 are marked as 'Issued for Resource Consent' dated 5 September 2018;
- Memorandum prepared by Stratum Consultants Ltd dated 24th September 2018 received by the Council on the 9th October 2018;

And the variation application prepared by Stratum Consultants Limited dated June 2025, inclusive of Appendices A – E; and

- Plans Prepared by BCD Group entitled "Seeka Stage 1B Packhouse" Canopy Extension, 153 Waipapa Road, Kerikeri: Job number 25-0030
 - Sheet 000, Rev 4
 - Sheet A-100, Rev 6
 - Sheet A-101, Rev 4
 - Sheet A-150, Rev 3
 - Sheet A-200, Rev 4
 - Sheet A-200a, Rev 1
 - Sheet A-205, Rev 4
 - Sheet A-206, Rev 5
- Signage Plan x 1 V Shaped Billboard, x 2 changeable printed canvass sign panels @ 3000mm x 6000mm, Total Height 5m ground toi top of sign panel
- Stormwater Memorandum prepared by Stratum Consultants Limited, entitled Additional Canopy Extension – Stormwater mitigation, dated 11 June 2025 and referenced 638080-CLV-SW Memo
- Geotechnical Plan Review prepared by Stratum Consultants Limited, entitled Geotechnical Plan Review of Proposed Stage 1B Canopy Extension and Packaging Lean-to 153 Waipapa Road, Kerikeri, dated 12 June 2025 and referenced 638080—GEO-C002

subject to the following conditions.

Comment: Condition 1 is proposed to be updated to reflect this variation application and the relevant plans and information associated with the canopy and packaging extension and sign.

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No other changes are considered necessary or required.

5 District Plan

Having reviewed the Proposed District Plan there are no proposed rules/provisions that would have

immediate legal effect in respect of the proposed canopy and packaging extensions on the subject

site.

Under the Operative District Plan, the proposed canopy would comply with the permitted height

of the Horticultural Processing Zone, however the corner that encroaches through the Rural Living

Zone will exceed the maximum 9m height limit.

Furthermore, the proposed canopy will infringe the set back and landscaping requirements under

Rules 18.4.6.1.2 a) b) & c), whereby the proposed development will overlap the zone boundary

resulting in development located within both the Horticultural Processing Zone and Rural Living

Zone portions of the title.

We note that as the area of the canopy is already surfaced in concrete, no further impermeable

surface will be created.

The proposed packaging extension remains well within the permitted height limit and clear of

external boundaries.

There will be no increase in traffic intensity as a result of the proposed canopy and packaging

extension.

Overall, if consent for the canopy was sought on a standalone basis consent would be required as

a Discretionary Activity under the Operative District Plan.

The proposed sign would require consent as a Restricted Discretionary Activity under Rule 16.6.2,

as the proposed sign coupled with the existing site signage will exceed 3m2 in area as permitted

by 16.6.1.3.

Given a s127 application as proposed triggers a Discretionary Activity status, it is considered that a

variation to conditions of consent is appropriate given that the proposed canopy and signage are

an extension to the previously consented site development, and the effects of the extension and

an assessment of the relevant objectives and policies is included within this application.

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6 Objectives and Policies

6.1 Operative District Plan

6.1.1 Horticultural Processing Zone

18.4.3 Objectives

- To provide for the needs of the horticultural processing industry, while protecting the character and amenity of the surrounding area.
- To avoid, remedy or mitigate adverse effects of new or additional horticultural processing facilities in the zone.
- To avoid, remedy or mitigate adverse environmental effects of activities on adjoining land.

18.4.4 Policies

- That the effects of activities that could compromise the character and amenity values of the area be avoided, remedied or mitigated.
- That standards be applied that protect visual and environmental amenity within the zone, and the amenity of adjacent zones.
- That all activities should provide for a stormwater disposal system incorporating Low Impact Design principles.

<u>Comment:</u> The varied proposal is considered to be in keeping with the objectives and policies above.

The proposal is for alterations of a well-established horticultural processing and storage facility at the subject site to improve efficiencies for packaging, bin storage and loading.

The Horticultural Processing zone was created specifically for the subject site, to enable horticultural processing developments.

The proposed canopy and packaging additions will not result in significant visual dominance effects on adjoining sites and the immediate surrounding area given the separation retained from adjoining properties.

The dual zoned subject site is owned by the applicant company; therefore, the applicants authorise the development and any associated effects on their Rural Living portion of the subject site. It is considered there is sufficient buffer between the proposed development and adjoining properties.

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As previously stated, as the proposal is to remain generally within the existing hard stand area, no increase in stormwater discharges from the completed development is proposed.

In light of the above assessment, it is considered that the varied proposal remains consistent with the relevant objectives and policies of the natural and physical resource, minerals and soils, signs and Horticultural Processing Zone of the Far North District Council Operative District Plan.

6.1.3 Signs

16.3 OBJECTIVES

16.3.1 To maintain and enhance amenity and heritage values whilst providing for a wide range of sign and lighting activities in a number of locations.

16.3.2 To ensure that the safe and efficient operation of the road transport and pedestrian network and other infrastructure will not be adversely compromised by sign and lighting activities.

16.3.3 To minimise the clutter of signs.

16.4 POLICIES

16.4.1 That the adverse effects of signs in the District be limited through size, type, duration, number and location controls.

16.4.2 That the consolidation of signs be encouraged to reduce the cumulative effects of sign proliferation and clutter.

16.4.3 That the adverse effects of outdoor lighting in the District be limited through intensity, location, and duration controls.

16.4.4 That sign and lighting activities located on scheduled historic sites, buildings and objects shall be compatible with the heritage values being protected.

<u>Comment:</u> The proposed sign is well setback from the road carriageway and fully within the site boundaries. The sign is not illuminated or will not flash be affecting vehicle safety on the adjacent road network.

The sign is directly related to the applicant's activity and ownership of the site.

Given the size of the site and operations, other than one existing freestanding sign there will be no cluttering of signs.

There are no known heritage features that would be impacted by the sign as proposed.

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6.2 Proposed District Plan

Whilst the rules in the Proposed District plan relating to the activity do not have legal effect., as required by the Act an assessment of the relevant objectives and policies of the Proposed District Plan is included below.

6.2.1 Horticultural Processing Zone

Objectives

HPFZ-O1 Horticulture processing facilities are recognised for their contribution to the social and economic wellbeing of the District and are managed to ensure their long-term protection.

HPFZ-O2 The Horticulture Processing Facilities zone enables the storage, processing, packing and distribution of produce including ancillary facilities, while containing adverse effects onsite; addressing the adverse effects on the supporting roading network.

HPFZ-O3 Land use and subdivision in the Horticulture Processing Facilities zone is supported by appropriate infrastructure.

HPFZ-O4 Land use and subdivision in the Horticulture Processing Facilities zone avoids any reverse sensitivity issues that may occur within the zone and at the zone interface.

Policies

HPFZ-P1 Enable buildings, structures and activities associated with the horticulture processing facilities where any adverse effects are managed to protect the surrounding character and amenity values.

HPFZ-P2 Manage land use and any associated stormwater runoff by:

- a. utilising the principles of low impact design;
- b. determining the impacts on Councils reticulated networks; and
- c. addressing the impacts on existing flood hazards, overland flows paths and the surrounding catchments.

HPFZ-P3 Manage land use that compromises the purpose and function of the Horticulture Processing Facilities zone.

HPFZ-P4 Manage land use to ensure that the Horticulture Processing Facilities zone is appropriately serviced by infrastructure through:

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- a. requiring connections to be provided where reticulated services are available; and
- b. requiring onsite infrastructure to be provided where reticulated services are not available.

HPFZ-P5 Provide for the removal of a screening shelterbelt planting if it can be demonstrated that:

- a. it is not required to screen the activities occurring on the site;
- b. it is not required to mitigate noise or light spill effects; and
- c. the removal will not create an adverse effect on the surrounding character and amenity values of the area.

HPFZ-P6 Manage land use and subdivision to address the effects of the activity requiring resource consent, including (but not limited to) consideration of the following matters where relevant to the application:

- a. the bulk and scale of buildings, structures, outdoor storage;
- b. parking and loading requirements;
- c. number of people on site and visitors, including seasonal peaks;
- d. level of noise emissions and light spill;
- e. hours and days of operation, including seasonal peaks;
- f. character and amenity of the surrounding environment;
- g. appropriate roading and access, including the type and volume of traffic;
- h. stormwater effects, including impacts on Council's reticulated network, overland flow paths and surrounding catchments;
- i. stormwater, wastewater and water supply management, including firefighting supply;
- j. any provision of low impact design principles
- k. the temporary or permanent nature of any adverse effects;
- I. whether the purpose and function of the horticulture processing facility is compromised;
- m. the management of trade waste; and
- n. any natural hazards.

<u>Comment</u>: The proposal is considered to be in keeping with the objectives and policies above for the horticultural processing zone ion the PDP.

The proposal is for alterations of a well-established horticultural processing and storage facility at the subject site to improve weather protection and provide for bin storage and loading.

The Horticultural Processing zone was created specifically for the subject site, to enable horticultural processing developments.

No additional traffic will be generated by the proposed canopy, which will simply cover an existing loading area.

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The proposed additions are internal to the site and will not result in significant visual dominance

effects on adjoining sites and the immediate surrounding area given the setback distances.

No landuse or subdivision is proposed as part of this application that would create any reverse

sensitivity effects.

The dual zoned subject site is owned by the applicant company; therefore, the applicants authorise

the development and any associated effects on their Rural Living portion of the subject site. It is

considered there is sufficient buffer between the proposed development and adjoining properties.

As previously stated, as the canopy and packaging areas will cover and existing concrete hardstand

area, no additional stormwater will be generated from that which exists across the site at present.

Provision is made for capture and attenuation of the new roof collected stormwater as detailed in

the stormwater assessment attached.

In light of the above assessment, it is considered that the proposal is consistent with the relevant

objectives and policies of Horticultural Processing Zone of the Far North District Council Proposed

District Plan.

6.2.2 Signs

Objectives

SIGN-O1 Signs are consistent with the natural character, amenity, cultural and heritage values of

the zone and receiving environment.

SIGN-O2 Signs promote health and safety and do not adversely affect infrastructure, particularly

the transport network.

SIGN-03

Signs contribute to the social, cultural and economic wellbeing of the community.

Policies

SIGN-P1

Allow the use of signs of a scale, size and intensity across a range of zones while avoiding,

remedying or mitigating adverse effects on:

a. character and amenity values;

b. cultural and heritage values;

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- c. the legibility and function of a place; and
- d. the safety and efficiency of the transport network.

SIGN-P2

Protect historic heritage and cultural values by requiring signs to be consistent with any identified and understood values by:

- a. restricting unnecessary, unsympathetic and large-scale signage; and
- b. avoiding signage that will dominate, obscure or detract from these identified values.

SIGN-P3

Ensure that signs do not compromise the safe and efficient use of the transport network by managing:

- a. the type, scale, design, location and direction of signs having regard to the road type and speed environment;
- b. distraction or confusion for users through the control of proliferation, illumination, flashing and moving images and digital signage:
- c. any obstruction caused by signs projecting over the road boundary; and
- d. signage that does not relate to the activity on-site.

SIGN--P4

Enable the use of signs to ensure the health and safety of the community and facilitates the navigation and legibility of a place.

SIGN-P5

Allow signs that provide for community, social and cultural wellbeing where they display:

- a. the location information about public or community facilities;
- b. place names, historic, cultural or spiritual information of significance; and
- c. does not result in adverse effects, including cumulative effects, on the character and amenity of the zone and receiving environment.

SIGN-P6

Manage signs, to address the effects of the activity requiring resource consent, including (but not limited to) consideration of the following matters where relevant to the application:

- a. bulk, scale, size and design;
- b. number, location and orientation;
- c. type, including whether they are, illuminated, flashing or three-dimensional;

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d. duration, whether the sign is temporary or permanent;

e. proliferation of signs and visual clutter;

f. ensuring signs are of a scale and are consistent with the amenity values of a zone and the receiving environment; and

g. cumulative adverse effects on character and amenity of a zone or receiving environment.

<u>Comment:</u> As with the assessment of the ODP objectives and policies, the proposed sign is well setback from the road carriageway and fully within the site boundaries. The sign is not illuminated or will not flash or have moving images affecting vehicle safety on the adjacent road network.

There will be no infrastructure affected by the proposed signage.

The sign is directly related to the applicant's activity and ownership of the site and is not large and will not be overly dominant in the existing environment.

Given the size of the site and operations, other than one existing freestanding sign and the signed on the building, there will be no cluttering of signs.

There are no known heritage features that would be impacted by the sign as proposed.

Overall, it is considered that the proposed signage is consistent with the intentions of the objectives and policies and appropriate fort the site and locale.

7 Assessment of Environmental Effects

In accordance with Section 88(2)(b) of the Resource Management Act 1991 and Clause 1(d) of the Fourth Schedule to the Act, this assessment of the actual or potential effects on the environment of the proposed activity has been prepared in such detail as corresponds with the scale and significance of the effects that the proposed activity may have on the environment.

7.1 Amenity & Character Effects

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The proposed additional canopy will provide for all weather vehicle loading and bin storage over an existing loading and storage area and the packaging area additional packaging storage and space, maximising efficiency of the existing post-harvest operation on site.

As there will be no change to the maximum throughput of the site, there will be no change in the expected traffic generation or increased traffic effects on the adjacent road network. There will be no alterations to the existing vehicle access locations to the site.

Likewise, there will be no change to operational hours or change to noise sources through the proposed addition of the canopy and packaging area.

Whilst the canopy does not meet the setback or height requirements between/for the rural living zoned portion of the site, this is an internal effect to the site only noting this zone boundary is internal. The proposed canopy continues to comply with the required yard setbacks to all external boundaries.

The proposed signage is minimal in the context of the overall site development and is well setback from the boundary. The signage will not be illuminated or flashing affecting traffic or neighbours opposite the site.

Overall, it is considered that any effects of the varied proposal will be less than minor and no greater than those envisaged by the original consent decision.

7.2 Stormwater Effects

Whilst the canopy and packaging area will result in additional roof area on site, the area to be covered is already formed in concrete slab and as such there is already hard surfacing in this location and no additional runoff will be generated into the downstream catchment from the global site.

Stormwater management measures are proposed including attenuation tanks to collect and store the runoff from the new canopy and packaging area roofs.

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Based on the above, it is considered that any stormwater effects from the varied proposal will be no greater than the original consent and therefore less than minor.

7.3 Summary

The assessment of environmental effects presented above is guided by the provisions of Act and the assessment criteria of the District Plan. Overall, this assessment shows that the actual and potential effects of the varied proposal on the environment will be less than minor and consistent with the original decision.

8 Statutory Assessments

Sec 127 Resource Management Act

Section 127 of the RMA allows for variation to conditions of consent as described below:

s.127

- (1) The holder of a resource consent may apply to a consent authority for a change or cancellation of a condition of the consent, subject to the following:
- (a) The holder of a subdivision consent must apply under this section for a change or cancellation of the consent before the deposit of the survey plan (and must apply under section 221 for a variation or cancellation of a consent notice after the deposit of the survey plan); and
- (b) no holder of any consent may apply for a change or cancellation of a condition on the duration of the consent.
- (3) Sections 88 to 121 apply, with all necessary modifications, as if -
- (a) the application were an application for a resource consent for a discretionary activity; and
- (b) the references to a resource consent and to the activity were references only to the change or cancellation of a condition and the effect of the change or cancellation respectively.
- (4) For the purposes of determining who is adversely affected by the change or cancellation, the local authority must consider, in particular every person who –
- (a) made a submission on the original application; and
- (b) may be affected by the change or cancellation.

Assessment Requirements

Section 127 of the RMA allows for a consent holder to apply to a consent authority to change any condition of resource consent provided the change does not involve a condition with respect to the duration of that consent. In determining the application for change of consent conditions, the consent authority shall apply Sections 88 to 121 of the RMA as if the application was for resource consent for a Discretionary Activity, therefore the consent authority may grant or refuse the application, and if it grants the application may impose conditions under section 108 RMA.

The consent authority must, however, only consider the effects of the proposed change with reference to the specific consent conditions to be varied. In determining who may be adversely affected by the change, the consent authority must consider every person who made a submission on the original application and may be affected by the change.

In the case of the original application, no party made a submission to the application and the application was approved under non-notified delegated authority.

In determining affected parties, it is important to note that it is the effects of the change (not the activity itself) which are relevant. The proposed variation retains the essential elements of the activity and as previously noted any effects are considered minimal in terms of the scale of the development.

All other conditions of the original consent are still considered appropriate, and we do not expect that there will be any change to the original conditions except those described previously. No departure from the intent of these conditions will result from the granting of this variation application.

9 Assessment Requirements of the Resource Management Act 1991

When considering an application for Resource Consent, the consent authority must, subject to Part II, have regard to:

- Any actual and potential effects on the environment of allowing the activity; and
- Any relevant provisions of the Regional Policy Statement, Regional Plans and any other matters the consent authority considers relevant to determine the application.

The subsequent sections of this report set out relevant matters pertaining to effects of the proposal as well as statutory regional planning documents and provide commentary with respect to consideration of the proposal against these assessment requirements of the Resource Management Act 1991.

10 Part II RMA Assessment

10.1 Section 5

The proposal has regard to the purpose of the Act in that natural and physical resources are being managed in a sustainable manner.

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The proposal does not detrimentally affect the potential of natural and physical resources to meet the reasonably foreseeable needs of future generations, nor the life supporting capacity of water, soil, air and ecosystems within the locale.

10.2 Section 6

Whilst the site contains areas identified as floodable, the proposal does not result in any filling or displacement of floodwaters and the proposed canopy is an open structure which will not be affected by flooding. There are no other Section 6 matters that require any further consideration.

10.3 Section 7

Regard has been given to:

- The efficient use and development of natural and physical resources;
- The maintenance and enhancement of amenity values; and
- Maintenance and enhancement of the quality of the environment.

The proposal is seen as an efficient use of the natural resources on site and the physical resources. There will be no change to amenity values or the quality of the environment.

10.4 Section 8

Regard has been given to the Principles of the Treaty. It is not considered that there are any Treaty implications.

10.5 Section 95 Assessment

10.5.1 Public Notification

Section 95A of the Act sets out the circumstances where an application for resource consent must or should be publicly notified through consideration of a number of steps.

In terms of mandatory public notification, as detailed by Step 1 the applicant has not requested public notification, the proposal is not for an exchange of reserve land under the reserves act, and public notification is not required under Sec 95(c).

Regarding Step 2, public notification is not precluded as there is no applicable NES precluding public notification, the application is not a controlled activity or boundary activity.

Regarding Step 3, there is no applicable NES that requires public notification, and adverse effects are considered to be minor overall.

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In terms of Step 4, we do not consider that there are any special circumstances that require public notification, and that the application therefore does not require public notification under Section 95A (9)(b).

Accordingly, we consider that the application need not be publicly notified.

10.5.2 Limited Notification

Section 95B of the Act, in conjunction with Sections 95E & 95F detail the process where limited notification of the consent application may be undertaken.

In terms of Step 1, there are no applicable protected customary rights groups or customary marine title groups. The site is not subject to (or adjacent to) a statutory acknowledgement area.

Regarding Step 2, limited notification is not precluded by an NES and the application is not a controlled activity or a prescribed activity.

In the case of Step 3, the application is not for an infringed boundary activity and again is not a relevant prescribed activity excluding notification.

In terms of Section 95E, it is our opinion that there are no affected parties given the nature and scale of the change. The proposed canopy meets the required setback from external boundaries and the varied proposal will not result in any increase in vehicle movements. The consented maximum throughput will be retained.

In terms of Step 4, we consider that no special circumstances exist that would require notice to be served on any other party and as such it is considered that the application can be processed on a non-notified basis.

11 Conclusion

The proposal seeks to change the conditions of R2190181-RMALUC as described in the application to add an additional canopy over an existing loading and storage areas, a packaging extension and for an additional sign.

As required by the Act, the proposed varied development has been assessed in terms of the Operative Far North District Plan, and the actual and potential effects of the activity on the environment.

S127 Variation Application

With regard to the assessment of environmental effects contained in Section 7.0 of this application,

it was concluded that any adverse effects of the proposed changes to the development on the

environment will be less than minor.

The varied proposal remains consistent with the relevant objectives and policies of the District Plan.

The proposal is also consistent with the intentions of the objectives and policies for the zone under

the Proposed District Plan.

Following thorough consideration of the preceding information provided within this application, it

is requested that FNDC approves the varied proposal on the following grounds:

• Any potential adverse environmental effects resulting from the proposal will be less than minor

and consistent with the existing consent.

• The proposal is consistent with all relevant matters contained within Part II of the Resource

Management Act 1991;

Accordingly, we seek that Council take a positive approach to this application and support it through

the non-notified resource consent process.

Shae Crossan

Stratum Consultants Ltd

16 June 2025

Date







RECORD OF TITLE UNDER LAND TRANSFER ACT 2017 FREEHOLD

Search Copy



Identifier NA124C/509

Land Registration District North Auckland

Date Issued 09 February 2000

Prior References NA48A/1264

Estate Fee Simple

Area 6.8752 hectares more or less
Legal Description Lot 3 Deposited Plan 196433

Registered Owners

Seeka Limited

Interests

Appurtenant hereto is a water right specified in Easement Certificate 608613.4 - 2.4.1976 at 10.51 am

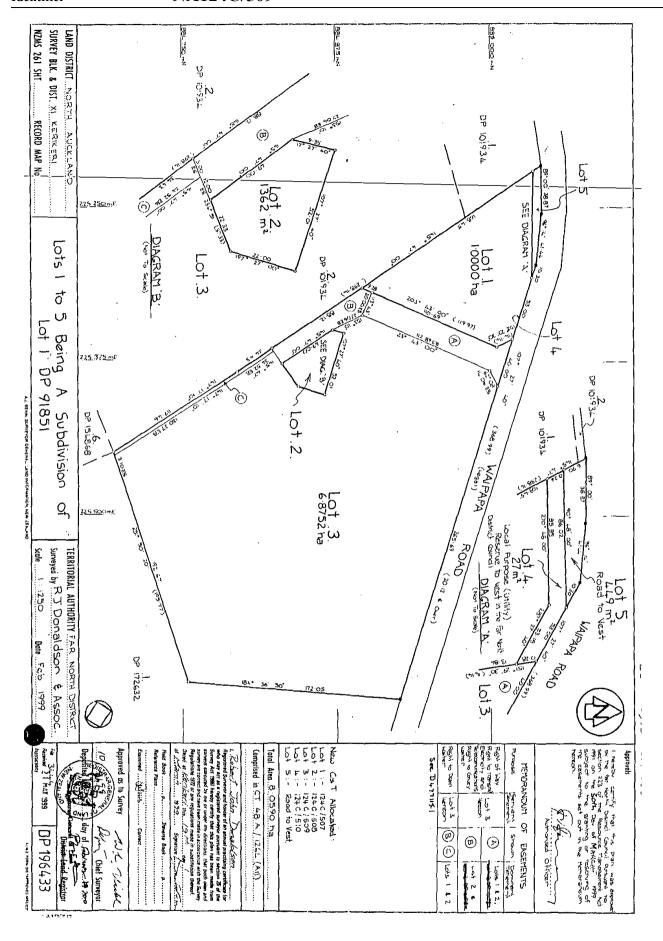
Subject to a right of way and rights to transmit electricity and telecommunications and convey water over parts marked A & B and a right to drain water over parts marked B & C on DP 196433 specified in Easement Certificate D477115.7 - 9.2.2000 at 2.25 pm

The easements specified in Easement Certificate D477115.7 are subject to Section 243 (a) Resource Management Act 1991 Subject to a right of way over part marked A DP 196433 created by Transfer 5380338.3 - 23.10.2002 at 9:00 am

11100128.2 Mortgage to Westpac New Zealand Limited - 30.4.2018 at 4:50 pm

11289501.1 Notification that a building consent issued pursuant to Section 72 Building Act 2004 identifies Inundation as a natural hazard- 20.11.2018 at 7:00 am

12285500.9 Variation of Mortgage 11100128.2 - 10.11.2021 at 2:49 pm



Appendix BArchitectural Plans





JOB NUMBER: 25-0030

SEEKA STAGE 1B - PACKHOUSE CANOPY EXTENSION 153 WAIPAPA ROAD, KERIKERI













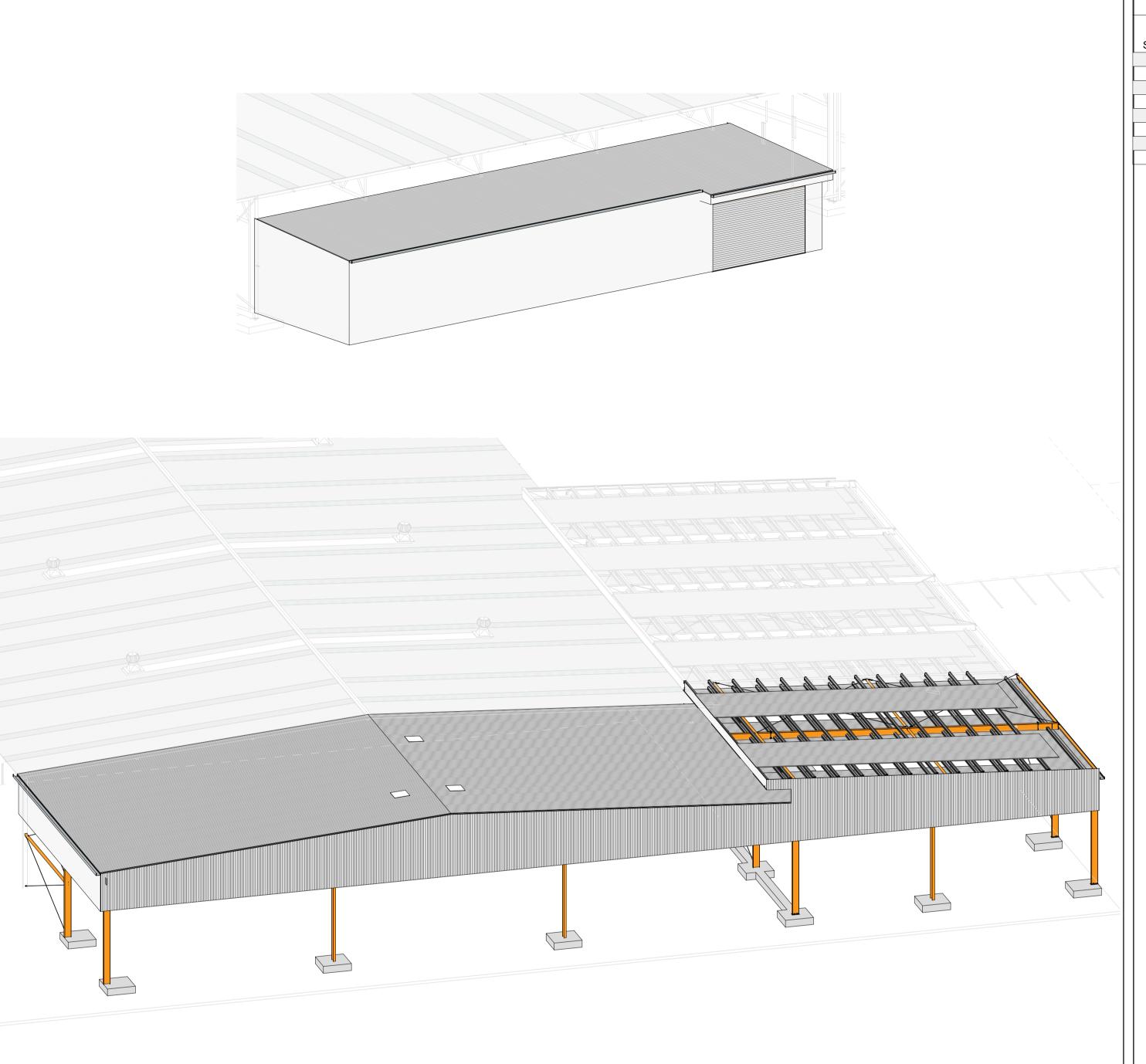












	DRAWING LIST		
SHEET NUMBER	SHEET NAME	CURRENT REVISION DATE	REVISION
000	INDEX & STANDARD NOTES	06-06-2025	4
A-100	PROPOSED SITE PLAN	06-06-2025	6
A-101	PROPOSED FLOOR PLAN	06-06-2025	4
A-150	ROOF PLAN	06-06-2025	3
A-200	EXTERIOR ELEVATIONS	06-06-2025	4
A-200a	EXTERIOR ELEVATIONS	06-06-2025	1
A-205	CROSS SECTIONS	06-06-2025	4
A-206	CROSS SECTIONS	06-06-2025	3

Notes

- 1. Drawings issued prior to the completion of Construction issue are for the purpose of enabling the client/contractor to prepare, submit and negotiate a cost competitive and compliant tender for the project only.
- 2. The client must act in good faith and use all reasonable endeavours to work on a regular basis with the consultant to minimise the risk of error to develop solutions that fulfil the project requirements and embrace the clients preferred construction methodologies and practices.
- 3. The building consent/tender documentation has been prepared such that a suitably competent contractor can prepare tender documentation. The documents are still subject to change as a result of structural peer review/ council RFI's and final pre-construction coordination between design disciplines and as such BCD recommend that the contractor allows suitable construction contingencies within their tender to satisfy the potential of design changes.

Sheet Setouts

C-001 series - civil drawings A-100 series - architectural plans A-200 series - architectural elevations & sections A-300 series - architectural details

A-400 series - door & window schedule and details A-450 series - joinery details A-460 series - interior finishes schedules

S-500 series - structural ground floor and mid floor plans S-550 series - foundation details

S-560 series - mid floor details S-600 series - precast & masonry elevations & details

S-620 series - precast stairs & details S-700 series - holding down bolt plans S-705 series - structural roof framing plans

S-800 series - structural elevations and sections S-900 series - structural details S-1000 series - 3D views

Auckland Hamilton **Napier** Tauranga **New Plymouth**

Ph: 0508 BCD GROUP (223 47687) Website: bcdgroup.nz





Standard Abbreviations

Structural Abbreviations

CHS

conc.

CJ

cvr

EΑ

FF

FP

horiz.

HR

MS

NF

alternating

FSBW full strength butt weld

control joint

drossbach tube

equal angle

expansion joint

full penetration

each face

each way

far face

FWAR fillet weld all round

horizontal

inside face

mild steel

near face

galvanised

hot dip galvanised

deformed bars (grade 500E)

Contractor

round bars (grade 500E)

grade

concrete

centres

cover

circular hollow section

deformed bars (grade 300E)

nominal bar diameter in mm

General Abbreviations

bidg CL

cnr

COS

dim.

DTF

ex.

m

max.

min.

mm

No.

NTS

NZS

OD

SK

spec.

SQ

TBC

typ.

FFL

approved

centre line

diameter

dimension

existing

metre

maximum

minimum

millimetre

not to scale

outside diameter

New Zealand Standard

number

radius

sketch

square

typical

reference

reduced level

specification

to be confirmed

confirm on site

finish floor level

miscellaneous

document transmittal form

building

corner



Structural Abbreviations continued

precast concrete panel

parallel flange channel

round bars (grade 300E)

rectangle hollow section

square hollow section

reinforced concrete

slab on grade

stainless steel

top of steel

vertical

top and bottom

universal beam

universal column

unequal angle

welded beam

structural slab level

tapered flange beam

outside face

plywood

reidbars

splice

PLY

RHS

SHS

SOG

SP

TFB

TOS

T&B

UB

UC

vert.

Architectural Abbreviations

base metal thickness

damp proof course

DPM damp proof membrane



Civl & Plumbing Abbreviations

base course

inspection chamber

catch pit

invert level

right of way

lid level

manhole

sub base

sub grade

sanitary sewer

water main/supply

floor waste gully gully trap

inside diameter

outside diameter

over flow outlet

terminal vent

water closet

over flow relief gully

inspection junction

inspection bend

stormwater

waste water

diameter

down pipe

hose tap

over flow

IC

MH

SB

SS

SW

WM/S

WW

dia. DP

GT

ID

OD

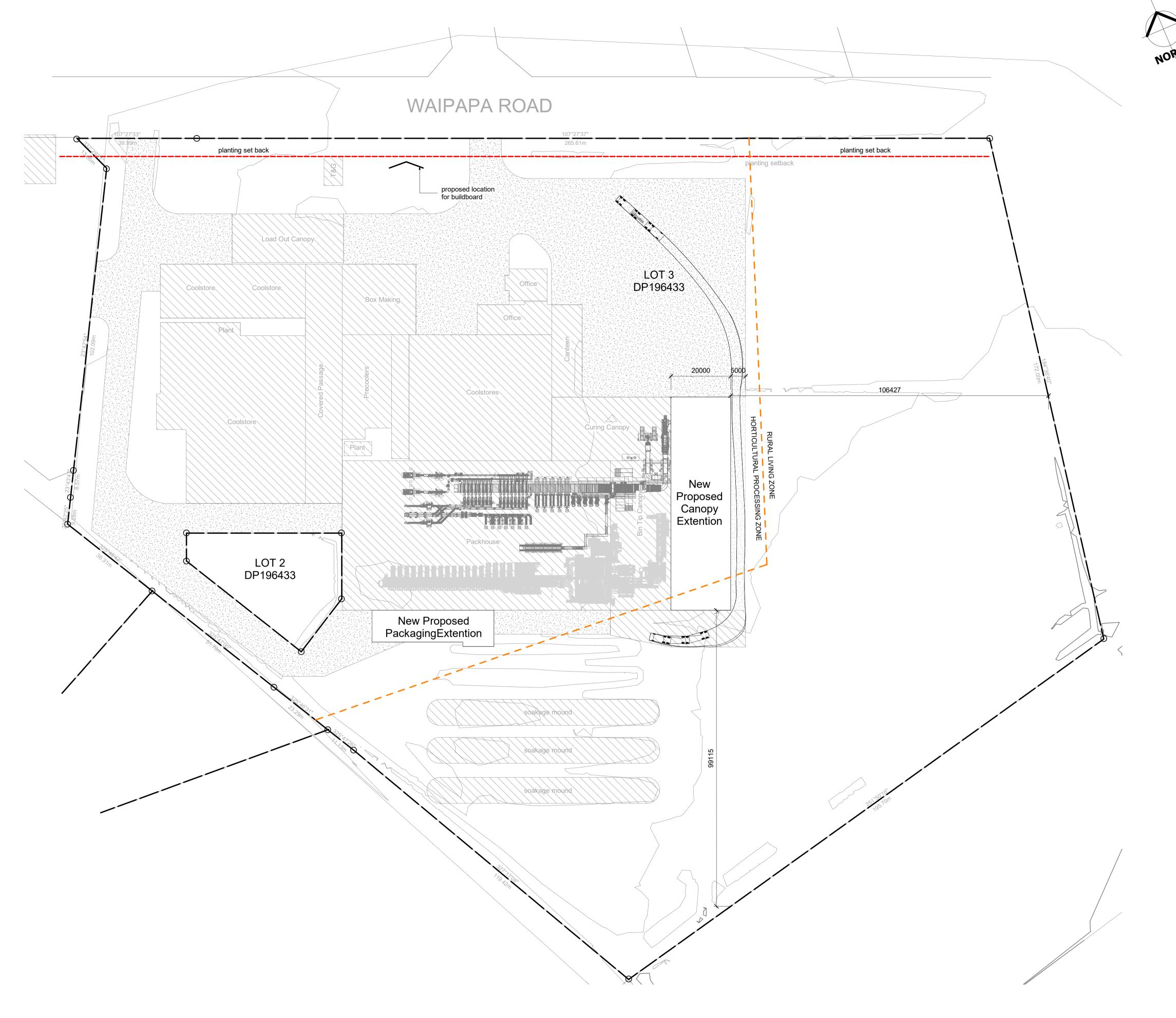
OFO

ORG

FWG

ROW

Rev Date by



Site Information & Requirements

Street Address: 153 Waipapa Road, Kerikeri

DP & Lot Number: DP 196433, Lot 3

Local Council: Far North District Council

Zone: Horticulural Processing / Rural Living Zone

Site Area: 68,752m²

Zone Information: EQ Zone: Zone 1 Wind Zone: H Corrosion Zone: Zone c

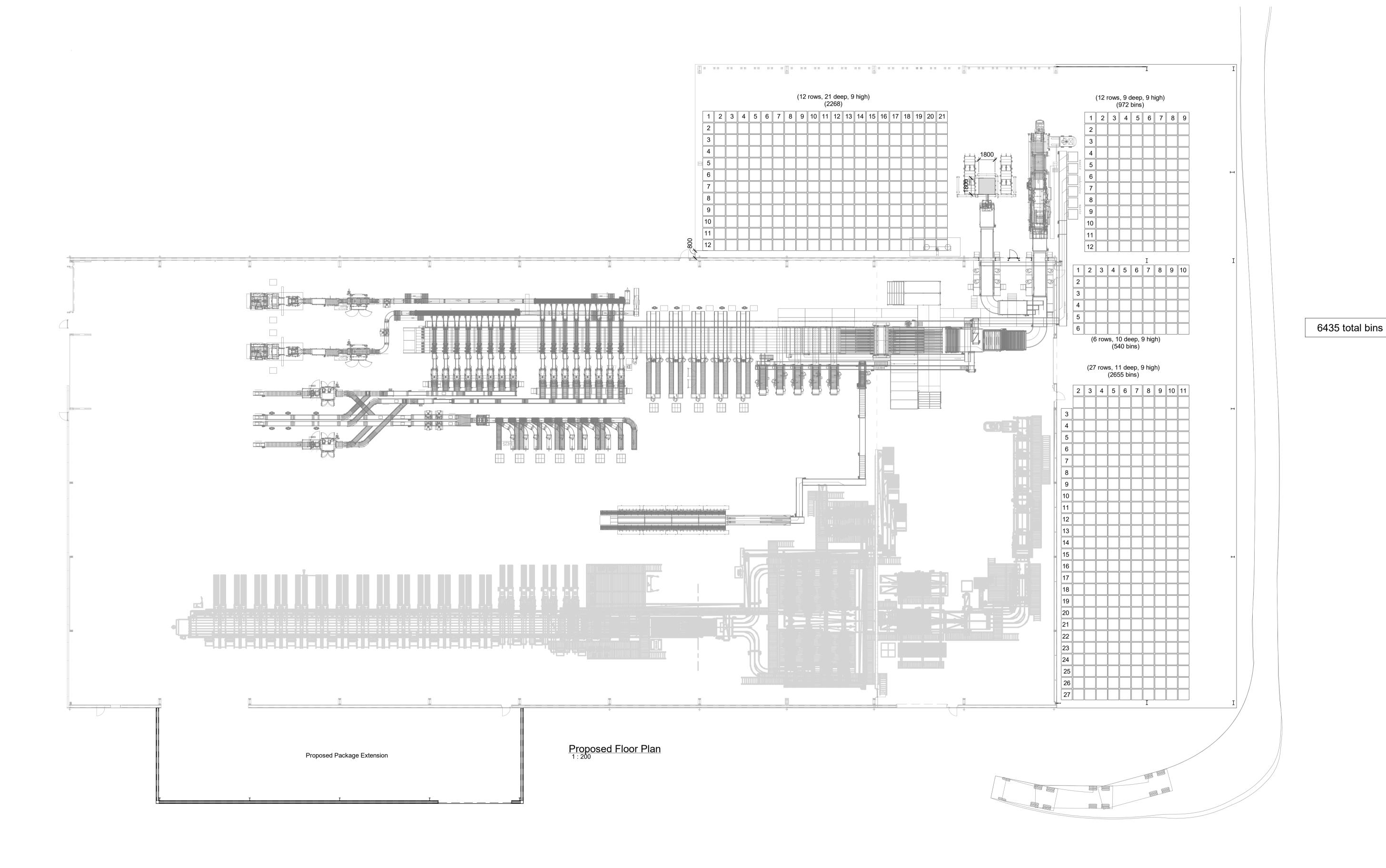
Notes:

- Site boundaries/ levels nominal and subject

- Site boundaries/ levels nominal and subject to survey.
 Easements not shown.
 Dimensions approximate and subject to confirmation.
 Structure and grid setout indicative only and subject to calculation.
 Stormwater detention/ soakage/ treatment/ discharge not yet checked
- Resource Consent not expected/ expected.







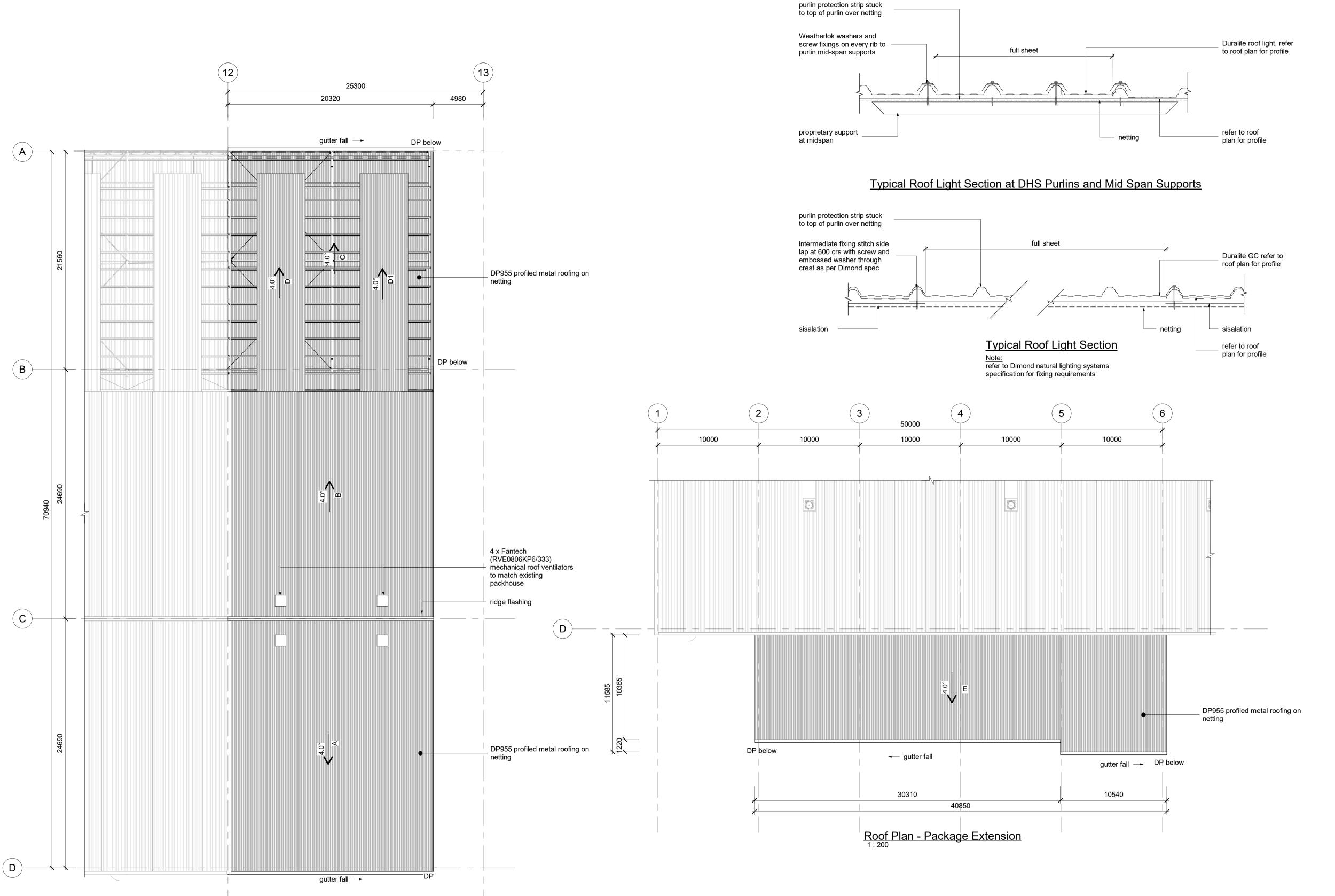
Seeka

all dimensions to be verified on site before making any shop drawings or commencing any work.





PROPOSED FL	OOR PLAN
Project Title SEEKA STAGE	1B - PACKHOUSE CANOPY EXTENSION
153 WAIPAPA ROAD, KERIKER	

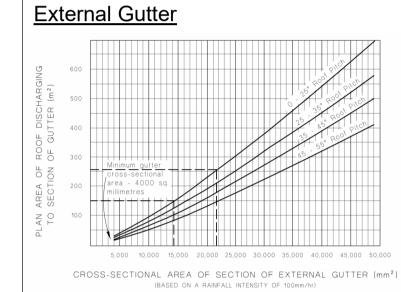


Roof Notes

- All roofing work is to be carried out by suitably qualified and experienced tradespeople.
- All work is to be carried out in accordance with NZ Metal Roof
- & Wall Cladding Code of Practice.
- All work is to be carried out in accordance with the NZ Building Code.
- Any details that the contractor does not consider to be good trade practice are to be noted to the designer at time of tender.
- All flashings are to be fitted to allow for thermal expansion as per NZBC E2/AS1 clause 4.5
- Screw fixing set out is to comply with NZ Metal Roof & Wall
- Cladding Code of Practice.
- All roofing and flashings are to be a minimum thickness of 0.55mm BMT gauge.
- Metal Flashings general dimensions as per NZBC E2/AS1
- Allow for compatibility of materials in contact as per NZBC
- E2/AS1 Table 20.Allow for one piece welded under flashings at all complex
- junctions.
- Allow for all nogging required for support of flashings and penetrations.
- Roof trusses shall be designed by a truss manufacturer and shall be supported on exterior walls only. The truss manufacturer shall design all lintels supporting girder trusses.

DOWN PIPE SIZE FOR GIVEN ROOF PITCH & AREA Max plan area of roof served by the downpipe (m²) Dia 0.25° 25.25° 25.45° 45.55°

Max plan area of roof served by the downpipe (m²)					
Dia	0-25°	25-35°	35-45°	45-55°	
63mm Ø	60	50	40	35	
74mm Ø	85	70	60	50	
100mm Ø	155	130	110	90	
150mm Ø	350	290	250	200	



NZBC E1/AS1 - Surface Water Paragraphs 5.1.2 and 5.1.3 Figure 15 - Cross-sectional Area of External Gutter

Roof Areas

Roof area <u>A</u> 507m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²
as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area **B** 507m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²
as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area <u>C</u> 349m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²

as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area **D&D1** 103m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²
as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area <u>C,D & D1</u> 555m²
as per NZBC E2/AS1 Table 5
minimum external gutter cross-sectional area = 18500m²
minimum downpipe size = 100 Ø

Roof area total 1918m²

Roof area <u>E</u> 437m² as per NZBC E2/AS1 Table 5 minimum external gutter cross-sectional area = 18500m²

minimum downpipe size = 100 Ø

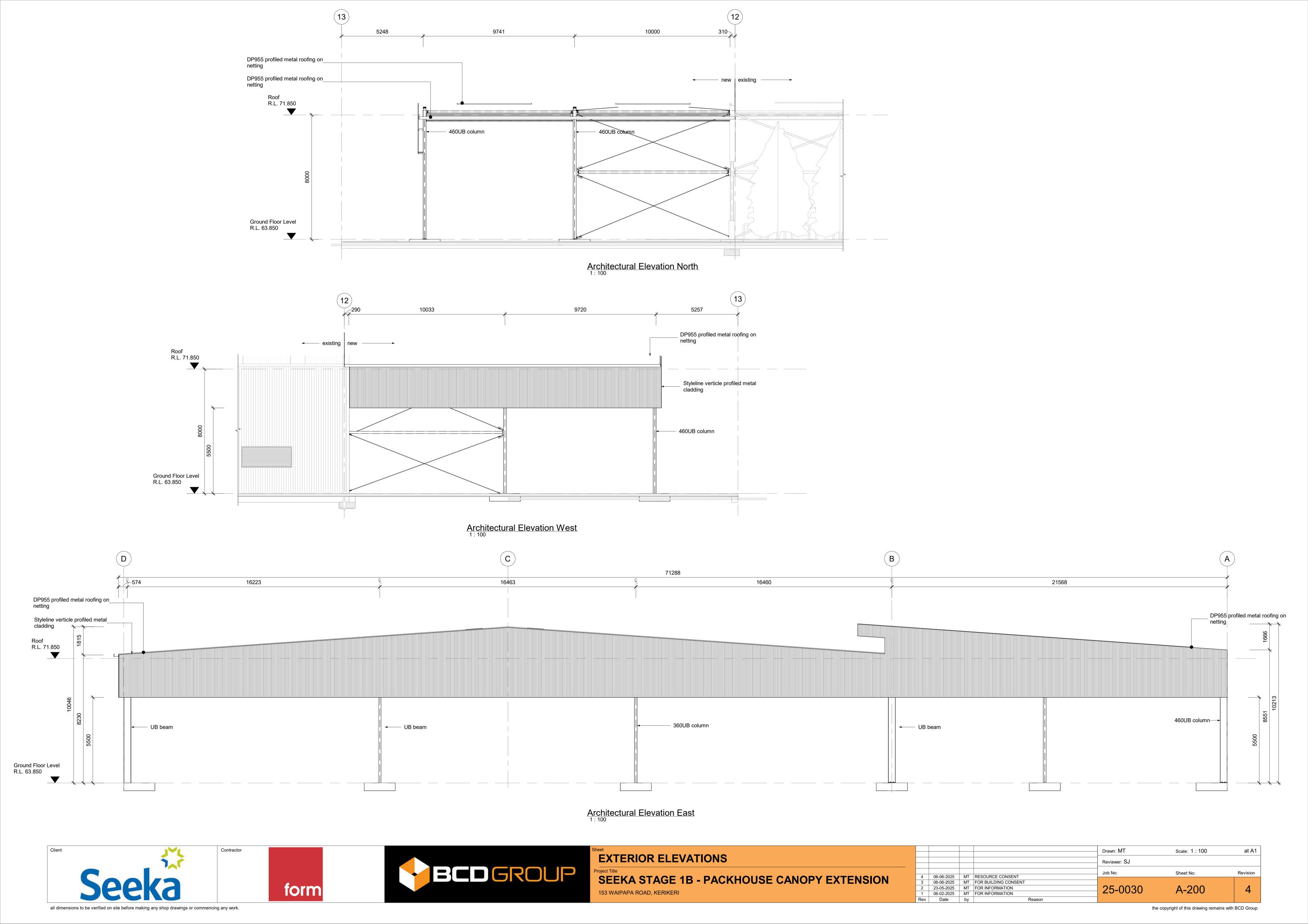


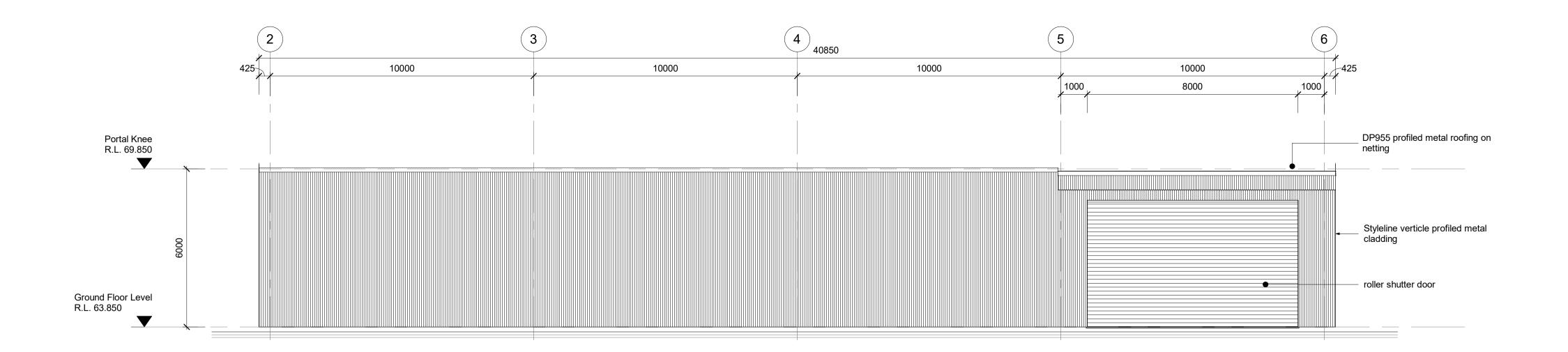


Roof Plan - Canopy Extension

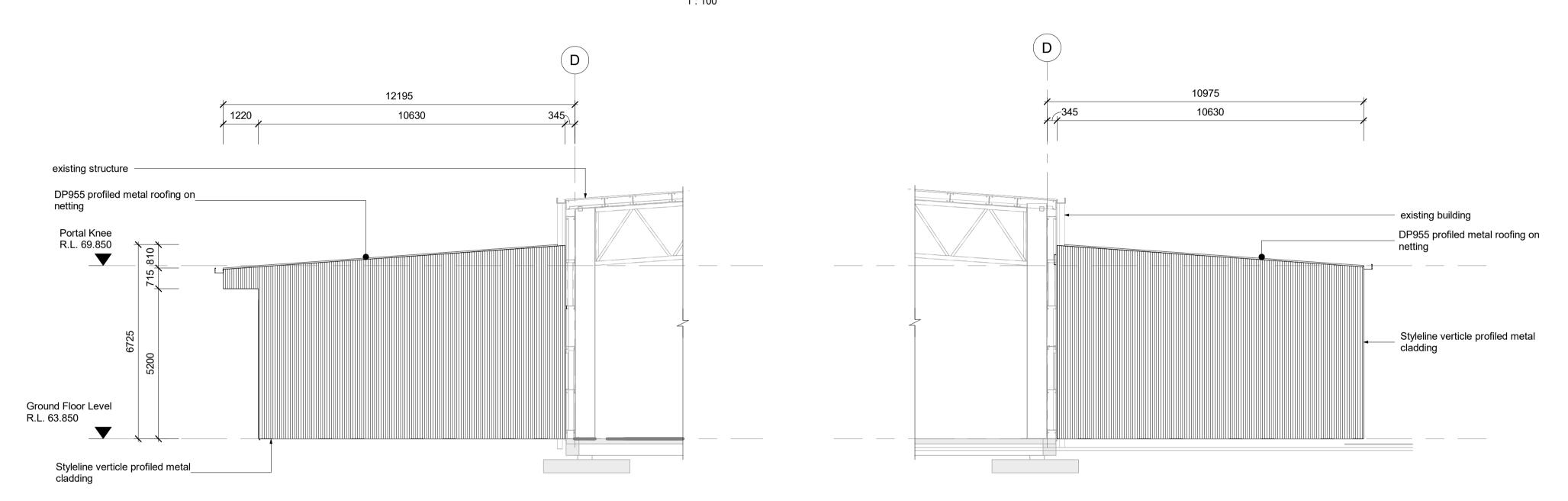








Archiectural Elevation - Gridline D



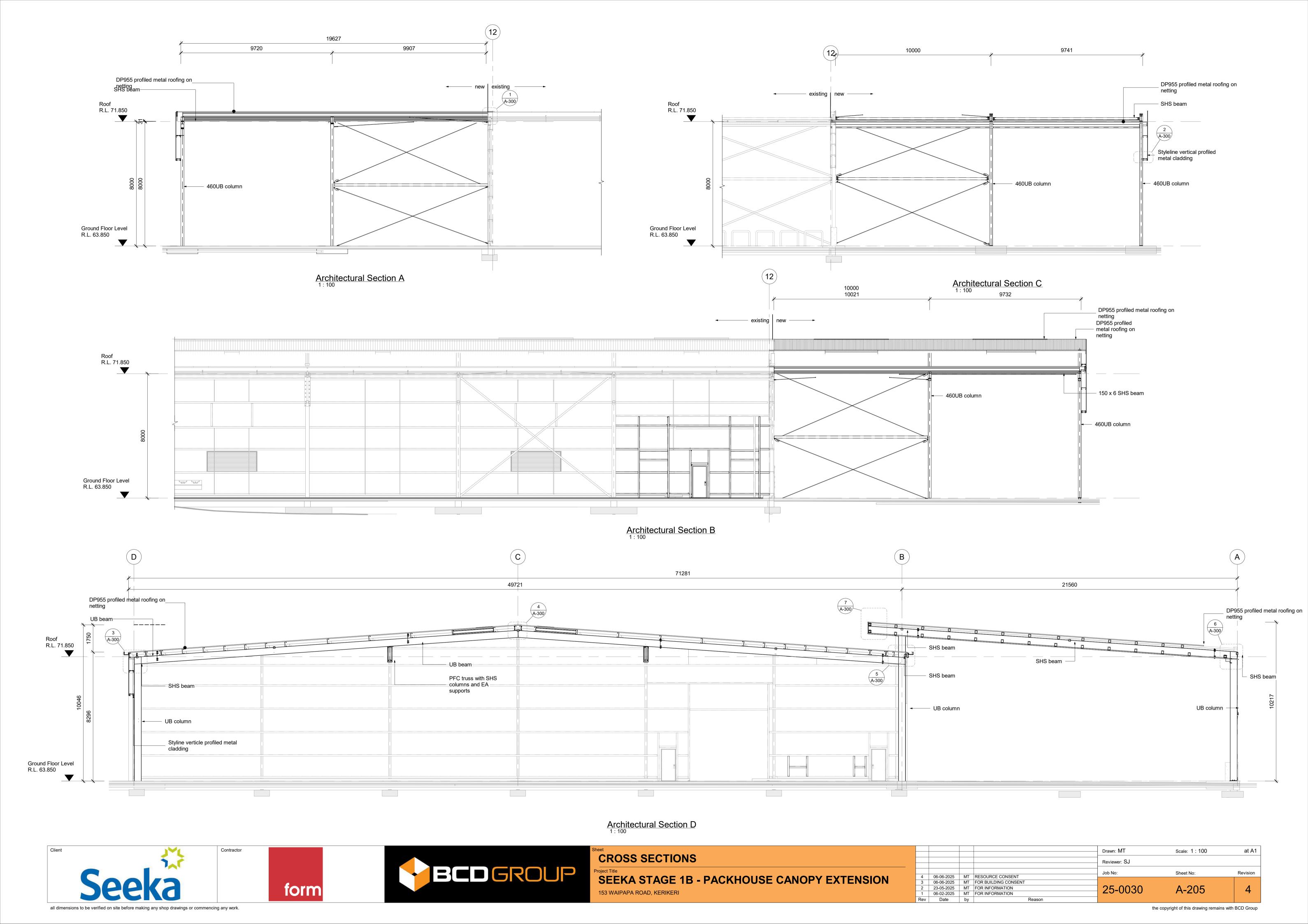
Archiectural Elevation - Gridline 6

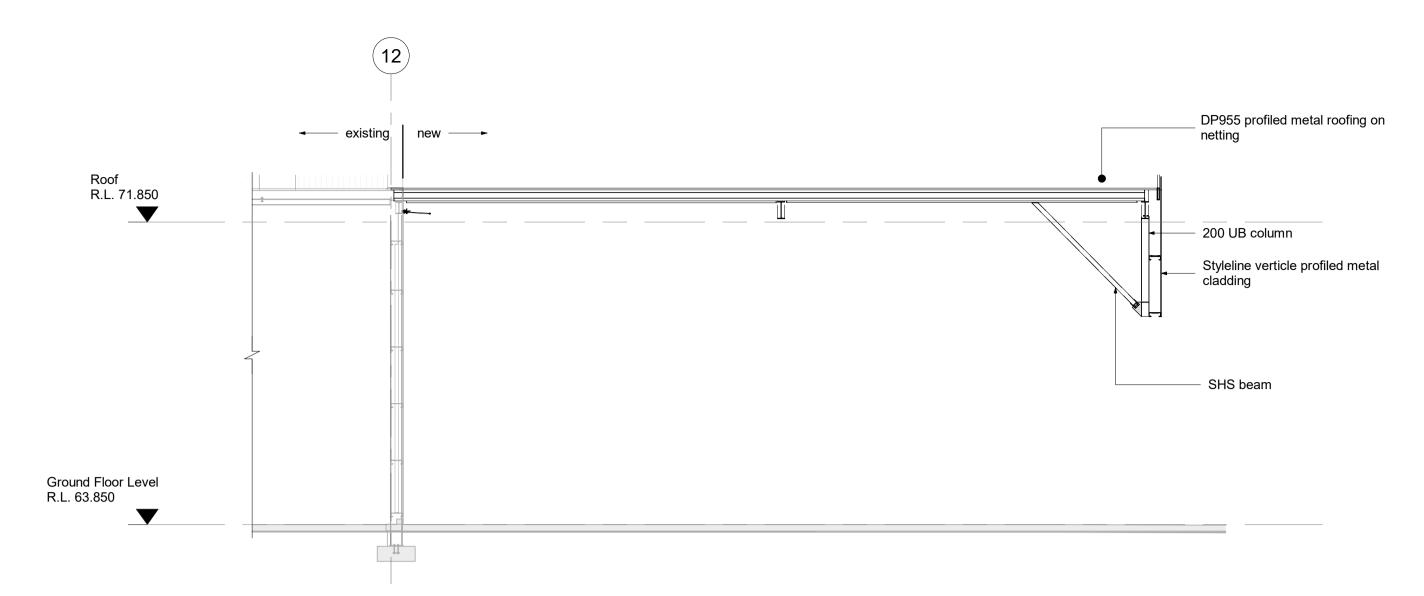
Architectural Elevation - Gridline 2





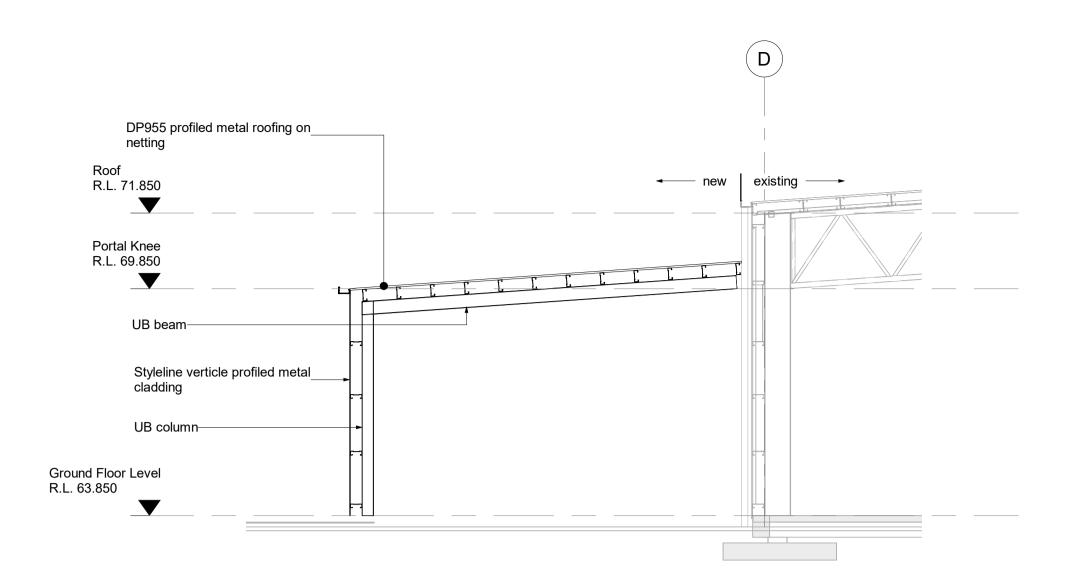






Architectural Section Between Gridline C and D

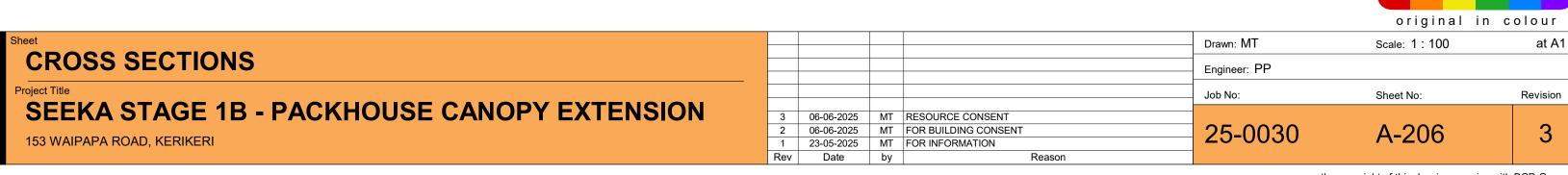
form



Architectural Section Gridline 4









x1 'V' Shape Billboard x2 changeable printed canvas sign panels @ 3000mm x 6000mm Total Height 5m ground to top of sign panel

Appendix C

Existing Resource Consent





Private Bag 752, Memorial Ave Kaikohe 0440, New Zealand Freephane: 0800 920 029 Phone: (09) 401 5200 Fox: (09) 401 2137 Email: ask us@Indx.gov1.tiz Website: vvvvv Indx.gov1.tiz

Application No: 2190181-RMALUC

Te Kaunihera o Tai Tokerau Ki Te Raki

23 November 2018

Seeka Limited C/- Stratum Consultants Ltd Attn: Jared Bartlett PO Box 13651 Tauranga 3141

Dear Sir / Madam,

Re: RESOURCE CONSENT APPLICATION BY Seeka Limited

I am pleased to inform you that your application for resource consent has been approved. The decision is enclosed for your information. The application was considered and determined under authority delegated to the Team Leader Resource Consents of the Far North District Council, pursuant to Section 34A of the Resource Management Act 1991.

It is very important that you understand and comply with any conditions of consent. If you have any questions or concerns about any aspect of your consent or its conditions, please contact the planner who prepared the decision.

Please note, that you will be sent either an invoice or credit note depending on the actual cost of processing your application. Any additional costs shown on an invoice need to be paid by the 20th of the month following the date of the invoice. If you receive a credit note, you have the option of requesting a refund by bank transfer, or transferring the amount to any other Council account. Please advise and supply a printed bank deposit slip and allow 10 working days for the refund to be processed.

If you have any further queries regarding this matter, please contact the reporting Planner

Yours faithfully

Lynka May Planning Support

Resource Consents Department



23-Nov-2018

Private Bag 757, Alemanial Ave
Kaikahe 0.440, New Zeoland
Freephone: 0800 920 029
Phane: (09) 401 5200
Fax: (09) 401 2137
Email: ask.us@Indx.gov1.nz
Website: www.ladx.gov1.nz

Te Kaunihera o Tai Tokerau Ki Te Raki

Seeka Limited C/- Stratum Consultants Ltd Attn: Jared Bartlett PO Box 13651 Tauranga 3141

Dear Seeka Limited.

Thank you for your recent application for resource consent at 153 Waipapa Road, Kerikeri 0295.

Far North District Council provides a number of services to assist individuals and organisations comply with the obligations of the Resource Management Act and we would very much like to know how well we responded to your application on this occasion.

We would be grateful if you would take a few minutes to complete the short questionnaire on the reverse side of this letter. If you are not the person that was most directly involved with the application, please pass this questionnaire to them instead.

We have enclosed a FreePost envelope for the completed questionnaire to be returned directly to CTMA (the independent service-quality improvement firm that is helping us with our customer service improvement programme).

Alternatively, you may prefer to respond on-line by selecting the "Resource Consent" questionnaire at:

www.WasItOK.com/FNDC/resource

If you do choose to complete the questionnaire on-line please enter the following reference number **2190181-RMALUC** in the space provided on the web page. This number will help us link your response to the type of consent you applied for and those responsible for processing it.

We appreciate the time you may spend completing this short questionnaire and we assure you that we will use the information to continue to improve our service to you.

If you have any further enquiries regarding Far North District Council and our services, please contact our call centre on 0800 920 029.

Yours sincerely

Shaun Clarke
Chief Executive Officer

If you prefer, you may respond to this survey online at: www.WasItOK.com/FNDC/resources

Thank you for telling us about your recent experience obtaining a Resource Consent from Far North District Council.

How satisfied were you with the resource consent process at Far North District Council in each of the following areas?

		Very satisfied	Somewhat satisfied	Neither satisfied nor dissatisfied	Somewhat dissatisfied	Very dissatisfied	(Or, not applicable)	
The clarity of what you need with your application	ed to supply			Cissassied				
Ease completing the council form(s)	's application	0	0		0			
Access to information from throughout the process	he council	0						
Consistency of information for throughout the process	Consistency of information from the council throughout the process							
Helpfulness of counter staff about the Resource Consen								
Availability of Resource Con	sent staff							
Knowledge of Resource Cor	nsent staff							
Helpfulness of Resource Co	nsent staff							
Responsiveness of staff retu phone calls and email mess								
Support from staff following actions and keeping you info progress	0	0	0					
The time it took to process y Consent	our Resource							
The value for money offered District Council's Resource of process						0		
n total, how many times did y	<u>rou</u> need to mak	e contact w	ith Far North	District Counc	il to progress	this consent	application?	
1 time only (at time of lodgement)	2 times		3 times		4 times	5 or more times		
low satisfied were you OVE	RALL with the Re	source Con	sent process a	t Far North Di	strict Counci	I on this occa	sion?	
Very satisfied	Somewhat satisfied		either satisfied or dissatisfied		newhat satisfied		ery tisfied	
						C		
Overall, how EASY did you find	d it dealing with F	ar North Di	strict Council	obtaining Res	ource Consen	t?		
Very easy	Somewhat easy		Neither easy nor difficult		newhat ifficult		ery icult	
Based on your experience obta				strict Council	on this occas	ion, would yo	ou	
l definitely would	l probably would		I might or might not		robably uld not		nitely d not	
				()	

Thank you again for your help. Please return this questionnaire using the FreePost envelope provided to: CTMA New Zealand Ltd., FreePost 199937, PO Box 35444, Browns Bay, Auckland 0753.



FAR NORTH DISTRICT COUNCIL

FAR NORTH OPERATIVE DISTRICT PLAN DECISION ON RESOURCE CONSENT APPLICATION

Resource Consent Number: 2190181-RMALUC

Pursuant to Sections 104 and 104B of the Resource Management Act 1991 (the Act), the Far North District Council hereby grants resource consent to:

Seeka Limited

The activities to which this decision relates are listed below:

Landuse for additions and alterations to an existing horticulatural processing facility, consisting of the following:

- Removal of existing packhouse and construction of a new 4500m2 packhouse within the southern portion of the horticultural processing zone at the subject site
- A 1000m2 bin-tip canopy
- An 800m2 curing canopy
- Bin Storage Area 1050m2
- Truck Unloading Area 700m2
- A 558m2 Load out Canopy
- Relocated OSET Treatment Plant (for effluent disposal)

Subject Site Details

Address: 153 Waipapa Road, Kerikeri

Legal Description: Lot 3 DP 196433 CFR references: NA124C/509

Pursuant to Sections 108 and 220 of the Act, this consent is issued subject to the following conditions:

- 1. The proposal is to be carried out and completed generally in accordance with the information that forms the application prepared by Stratum Consultants Limited dated September 2018, inclusive of Appendices A J, and the following additional information received:
 - Plans prepared by Stratum Consultants Limited entitled 'Drawing Set for Resource Consent' Sheets 00-21, where Sheets 00-19 are marked as 'Issued for Engineering Approval' dated 11 September 2018, and Sheets 20-21 are marked as 'Issued for Resource Consent' dated 5 September 2018;
 - Memorandum prepared by Stratum Consultants Ltd dated 24th September 2018 received by the Council on the 9th October 2018; subject to the following conditions.
- 2. Prior to the opening and operation of the additional building space as provided for under this consent, the consent holder shall:
 - (a) Install and complete the new car parking areas identified on the Site Development Plan prepared by Stratum Consultants Limited (reference 638080-M-E-D001 Sheet No 10 Issue A dated 11

September 2018) to provide a total of 130 on-site carparks. The design and construction of all parking is to comply with Appendix 3D of the Far North District Plan.

<u>Note:</u> A finished metalled and marked surface for the carparking is acceptable

- (b) Undertake and complete all stormwater management and disposal works required on the site, generally in accordance with the design specified in the Memorandum prepared by Stratum Consultants Limited dated 24 September 2018, inclusive of the Stormwater Layout Plan prepared by Stratum Consultants Limited attached to the Memorandum.
- (c) Within 4 months of the issue of this consent upgrade the existing western vehicle crossing exit point to a commercial crossing standard. The entrance shall be concreted from the existing road carriageway to the property boundary, use a minimum of 25MPa concrete, and be constructed in general accordance with Council's Engineering Standards and Guidelines FNDC/S/2.
- (d) On completion of the works required under (a), (b) and (c) above, the consent holder shall provide suitable written evidence to confirm the works are completed. Such evidence shall be provided to the Councils duly authorised Officer and shall consist of a written statement from a suitably qualified and experience engineer confirming completion, and may include as-built plans and producer statement (PS4).
- 3. The operation of the consented activity shall comply with the following:
 - (a) A minimum of 130 on-site carparks are to be available at all times on the site during the hours of operation
 - (b) At all times the noise generated by the proposed activities shall comply with the permitted standards of the District Plan.
 - (c) The circulation of vehicles through the site is to comply at all times with the Vehicle Access Plan prepared by Stratum Consultants Limited (reference 638080-M-E-D001 Sheet No 20 Issue A dated 5 September 2018)
- 4. In accordance with section 128 of the Resource Management Act 1991, the Council may serve notice on the Consent Holder of its intention to review Conditions 1 and 3 a)-(c) at least one year following this consent being given effect to, and in one year intervals thereafter. Any review will be for the purpose of:
 - Addressing any significant adverse effect on the environment arising from the exercise of this consent that was not foreseen at the time the application was determined and are is not currently avoided, remedied, or mitigated by the implementation of conditions, or
 - b) Requiring the Consent Holder to adopt the best practicable option to remove or reduce any adverse effects on the environment.

Specifically, where a review of these conditions is undertaken at any time, the consent holder is advised that the Council may consider options including reducing the maximum occupancy, requiring additional on-site carparking, or other options as may be considered reasonably necessary should the need arise as a result of a review.

All costs associated with any review shall be met by the Consent Holder.

Advice Notes

- 1. Where there is any complaint or dispute regarding compliance with the permitted noise standards, the onus will be on the consent holder to illustrate compliance. This may require provision of suitable acoustic testing and assessment by an acoustic engineer at the consent holders expense.
- The Far North District Council is not responsible for any management or maintenance of on-site infrastructure provided as part of this consent. All asset management is the responsibility of the consent holder or any future owner/s.
- 3. This resource consent should be read in conjunction with the resource consent issued by Far North District Council (reference RC2190096) on the 5th September 2018. That consent provides for earthworks to be undertaken on the site in preparation for the proposed building and activities that this consent provides for.

Reasons for the Decision

- The Council has determined (by way of an earlier report and resolution) that the adverse environmental effects associated with the proposed activity are not more than minor on the receiving environment. Written approval has been obtained from persons considered to be adversely affected to a minor or more than minor extent by the granting of consent. There are no other affected persons or any affected customary rights group or customary marine title group.
- 2. It is noted that the Council has previously issued a resource consent (reference RC2190096) providing for the preparatory earthworks for the construction of buildings and facilities as defined in this consent application now being considered. These earthworks form part of the existing environment. The decision regarding notification and this decision report therefore both consider the extent of adverse effects and assessment of relevant planning provisions on the basis that all preparatory earthworks have and will be carried out in accordance with that consent.
- 3. For the purposes of Section 104(1)(a), the adverse effects of the proposed activity on the receiving environment are considered to be minor and less than minor and therefore acceptable in the receiving environment. The existing environment is defined by the existing horticultural facility and immediately surrounding area, inclusive of rural lifestyle properties on the opposite side of Waipapa Road. The proposal will extend the existing buildings, amend the existing internal parking layout and traffic circulation, and increase the activity in terms of traffic.
- 4. The application notes under Section 6.6 that positive effects will arise from the granting of consent. Those positive effects are accepted and adopted for the purpose of this report.
- Despite being a discretionary activity, the extent of those additional adverse
 effects arising from the proposed activity on the existing environment are
 considered to be acceptable and can be suitably mitigated or avoided by way
 of the conditions discussed below.

- 6. In terms of Section 108, conditions will be required to ensure the development proceeds in accordance with the information provided. That includes suitable design and implementation of stormwater management measures, appropriate formation and use of on-site parking and vehicle circulation, and compliance with the permitted noise standards in all respects. A review condition under Section 128 is considered appropriate in this case, in the event that adverse effects arise from the consented activity, particularly in terms of noise and traffic, which are not anticipated in this decision, and conditions.
- 7. Consideration has been given to the need for internal landscaping, particularly to the east of the development site. On the basis that the applicant owns the adjacent Rural Living zoned land, the need to screen the existing and proposed development from both the adjacent land and Waipapa Road is considered unnecessary in this case. It is noted that the current rules in the District Plan require that the existing screening vegetation on the road frontage cannot be removed without further consent from the Council.
- 8. With specific regard to effluent disposal, it is understood that the on-site system is subject to consent from the Northland Regional Council. On that basis, no conditions are imposed addressing this matter.
- 9. In terms of Section 104(1)(b), the application provided an assessment of the relevant planning provisions. The assessments provided under Sections 7.1, 7.2 and 8.1, as they relate to the operative Regional Policy Statement, Regional Plans, and relevant National Environmental Standards, are accepted and adopted for the purpose of this decision.
- 10. Section 5.0 of the application provides an assessment of the proposal against the relevant District Plan provisions. Those relevant provisions are contained in Chapters 8.7 Rural Living Zone, 15 Transportation, and 18.4 Horticultural Processing Zone. The application assesses the provisions under Chapters 15 and 18.4 and concludes that the proposal is in keeping with the relevant provisions. This is accepted and adopted for the purpose of this decision.
- 11. The application assesses the provisions under Chapter 8.7 Rural Living Zone and concludes that the proposal is in keeping with the objectives and policies. While that conclusion is generally accepted, some detailed consideration of the relevant Plan provisions is required. In particular, Policies 8.7.4.5, 8.7.4.8, and 8.7.4.9 address situations where non-residential activities and/or activities other than a single residential unit are proposed in the Rural Living Zone.
- 12. The assessment notes that 'The portion of development within the Rural Living zone includes a small corner of the proposed packhouse, and the south eastern corner of the bin-tip canopy, with the majority of development within the Rural Living zone being in concrete pad, and hardstand for access.' The area included for development in the Rural Living zone is understood to be approximately 850m². As an initial comment, the HPZ commentary in the District Plan states that 'The zone therefore enables the further expansion of the horticultural processing and storage facilities, provided that these activities are carried out in a manner which does not adversely affect the character and amenity of the surrounding environment.' The current application does intrude across the zone boundary, indicating that the existing

HPZ may not be sufficient to accommodate what is a growing industry in the area. Taking this into account, and considering the Rural Living policies identified above, compatibility of effects particularly on amenity values is important. Having assessed the adverse effects of granting consent previously, noting the separation distance afforded by the existing Rural Living zoned land owned by the applicant, and the minor extent of intrusion across the zone boundary, in this instance the adverse effects on amenity are considered to be acceptable.

- 13. Overall, the proposal is considered to be consistent with the objectives and policies of the District Plan.
- 14. Section 104(1)(c) requires consideration of Other Matters. There are no other matters that are considered relevant or reasonably necessary to determine this application.
- 15. As per current case law, an assessment of relevant matters under Section 104 is subject to Part 2. A council must have regard to the provisions of Part 2 when it is appropriate to do so. In this case, the application and the matters requiring assessment therein are largely confined to issues addressed in Section 7 Other Matters. Those include Section 7(b), Section 7(c), and Section 7(f). There is no suggestion that the effects that have been identified and assessed, and the relevant District Plan provisions that require assessment, do not reflect those relevant matters in Section 7. On that basis, it is not considered appropriate or necessary to undertake a detailed assessment of Part 2 matters.
- 16. Section 104B specifies that a Council may grant or refuse consent to a discretionary activity. If it grants consent, it may impose conditions under Section 108. Taking into account the extent of existing development, the acceptable extent of adverse effects arising from the proposal, and the general consistency of the application with the District Plan provisions, it is considered that the activity is consistent with the sustainable management purpose of the RMA. Consent can therefore be granted subject to conditions.

Approval

This resource consent has been prepared by A Hartstone, Consultant Planner, and is granted under delegated authority (pursuant to Section 34A of the Resource Management Act 1991) from the Far North District Council by:

Pat Killalea, Principal Planner

Date: 22nd November 2018

Right of Objection

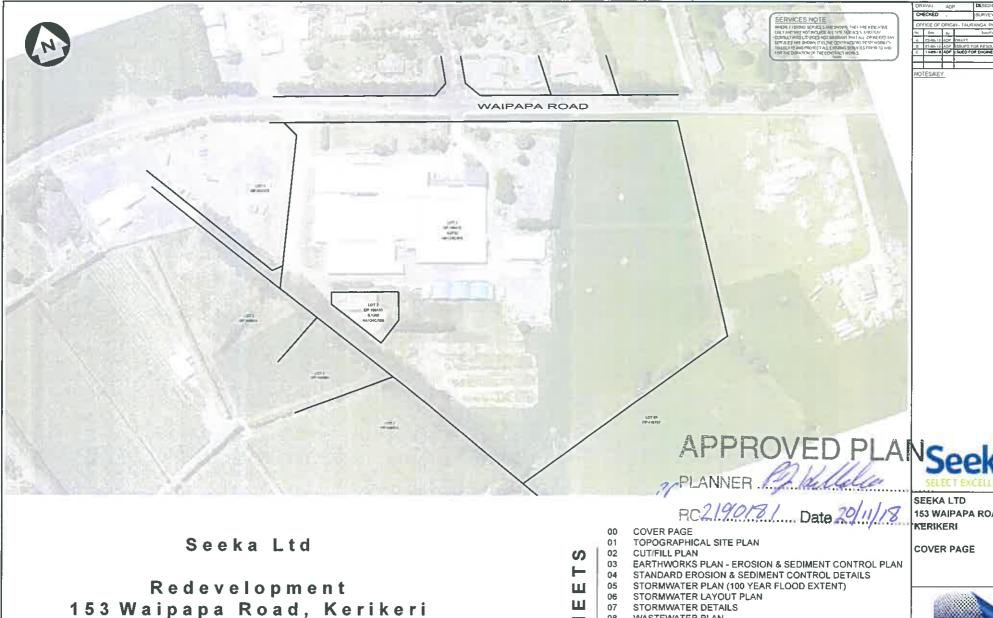
If you are dissatisfied with the decision or any part of it, you have the right (pursuant to section 357A of the Resource Management Act 1991) to object to the decision. The objection must be in writing, stating reasons for the

objection and must be received by Council within 15 working days of the receipt of this decision.

Lapsing Of Consent

Pursuant to section 125 of the Resource Management Act 1991, this resource consent will lapse 5 years after the date of commencement of consent unless, before the consent lapses;

- a) The consent is given effect to; or
- b) An application is made to the Council to extend the period of consent, and the council decides to grant an extension after taking into account the statutory considerations, set out in section 125(1)(b) of the Resource Management Act 1991.



Drawing Set for Resource Consent

-SITE DEVELOPMENT-

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WASTEWATER LONG SECTION SITE DEVELOPMENT PLAN

PRE DEVELOPMENT CATCHMENTS PLAN POST DEVELOPMENT CATCHMENTS PLAN

TRAFFIC FLOW

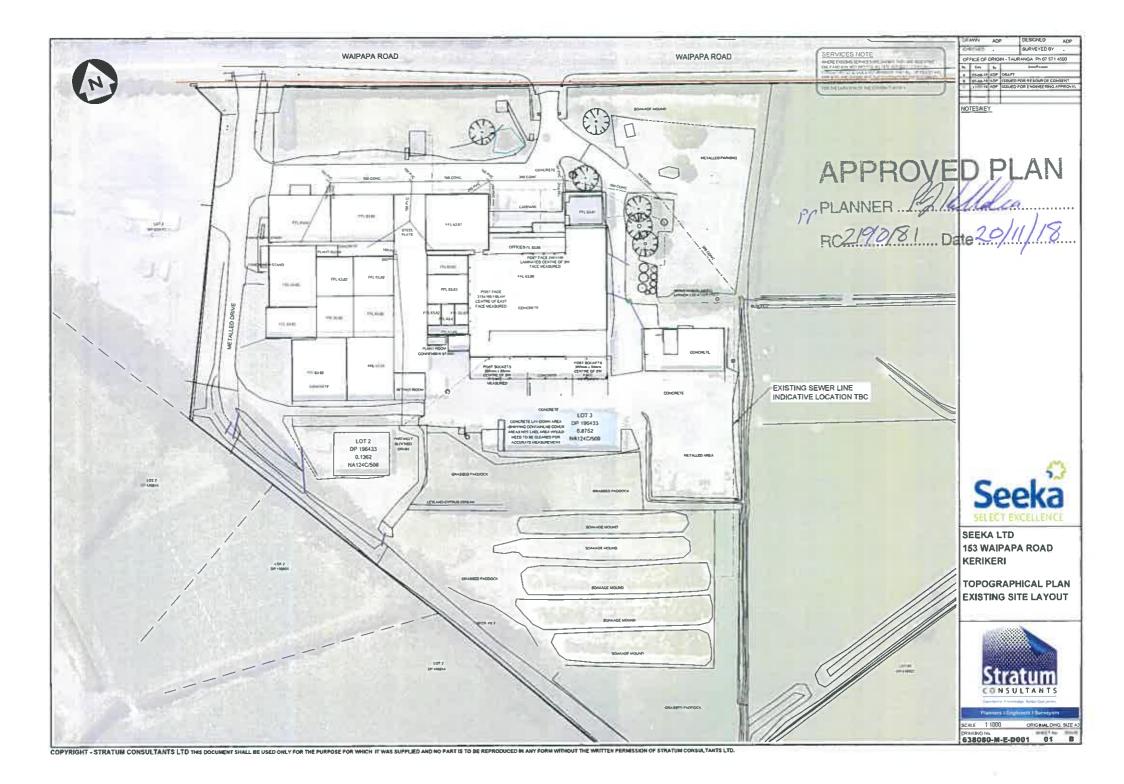
B-TRAIN VEHICLE TRACKING

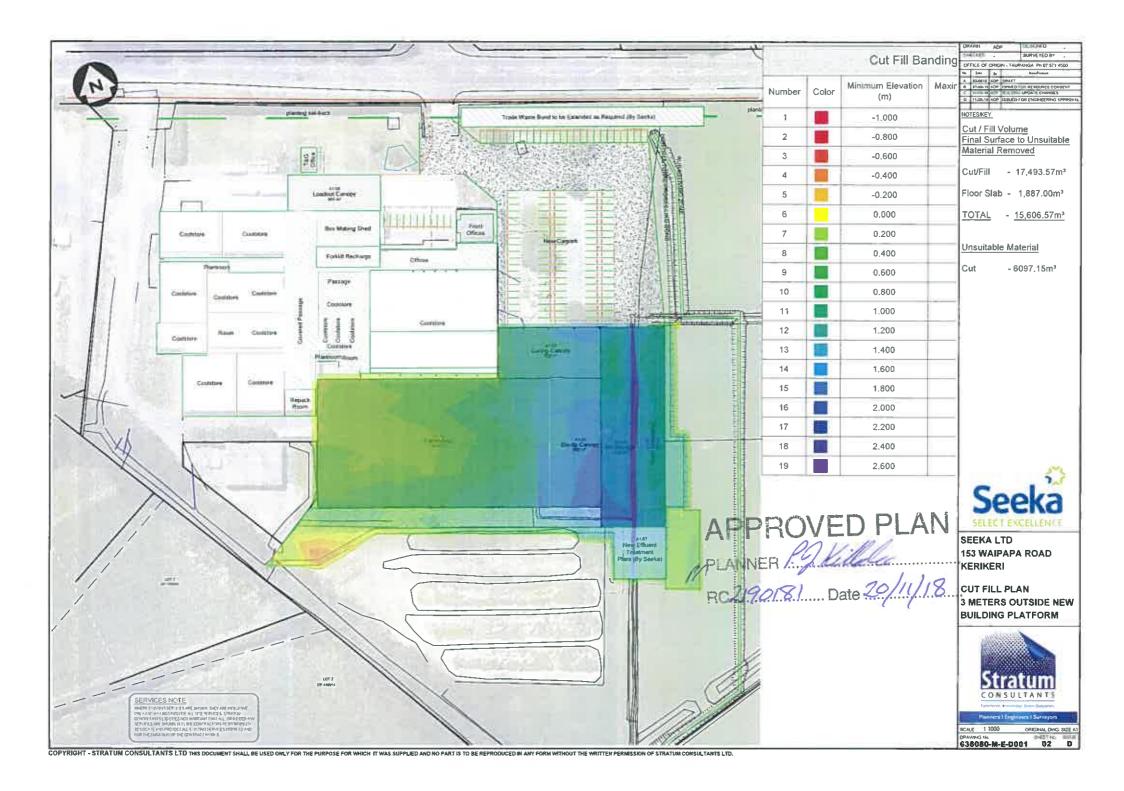
WASTEWATER PLAN

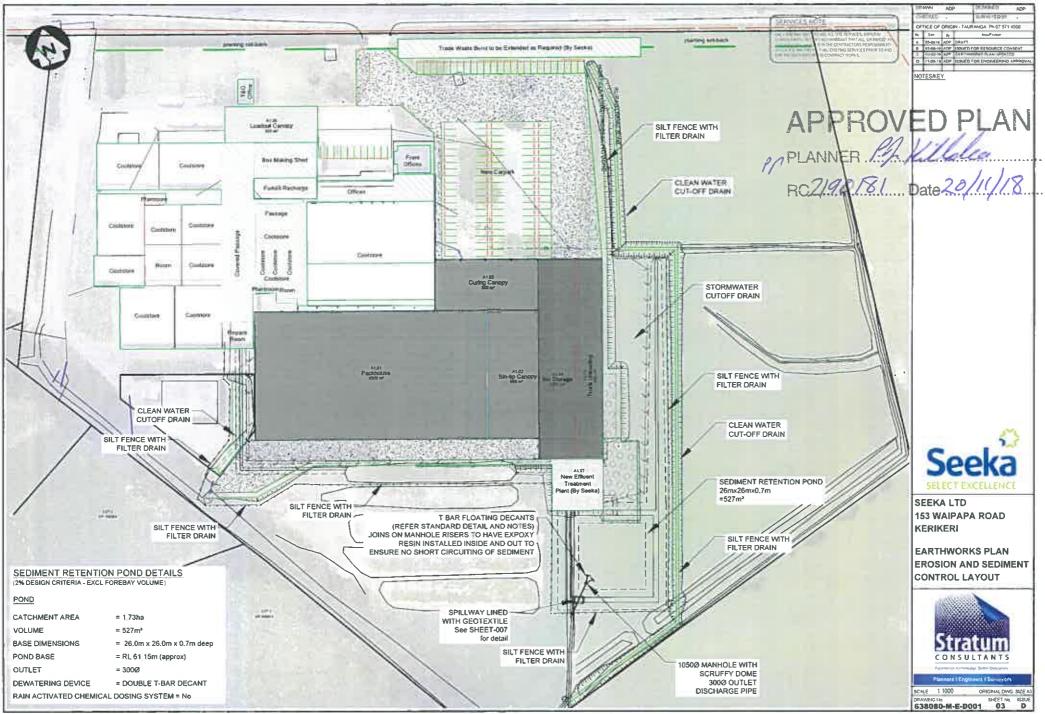
153 WAIPAPA ROAD

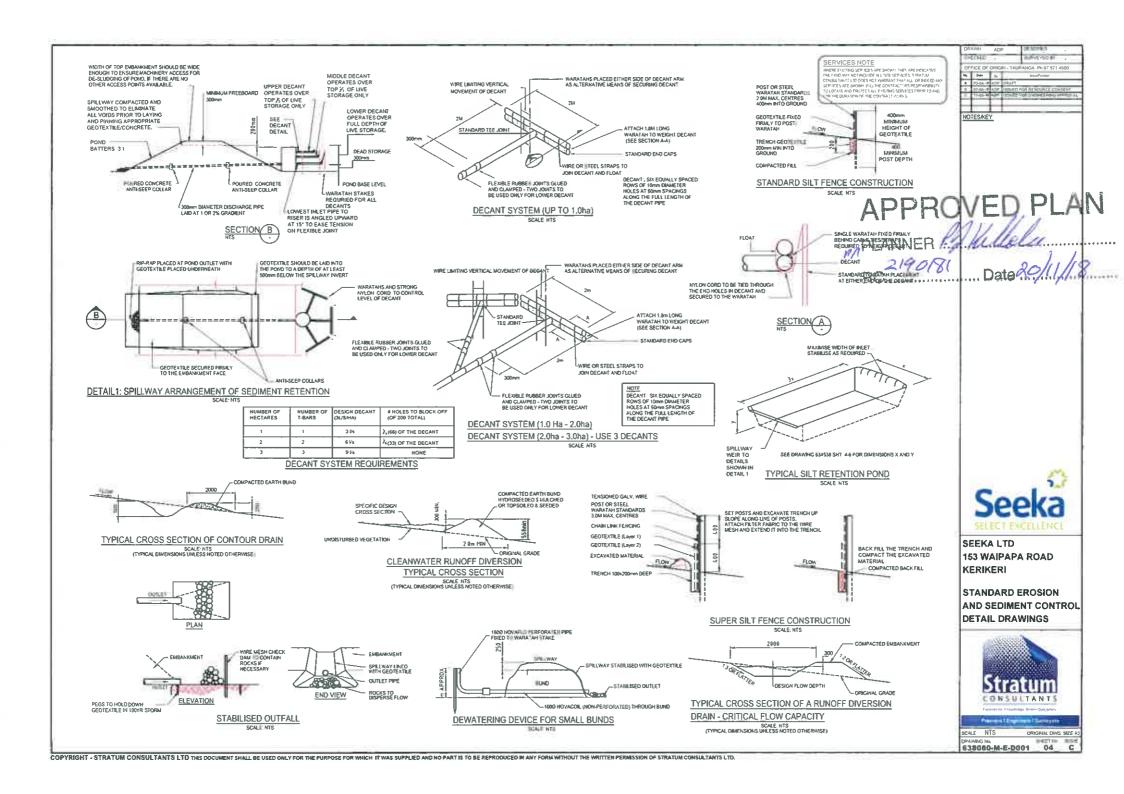


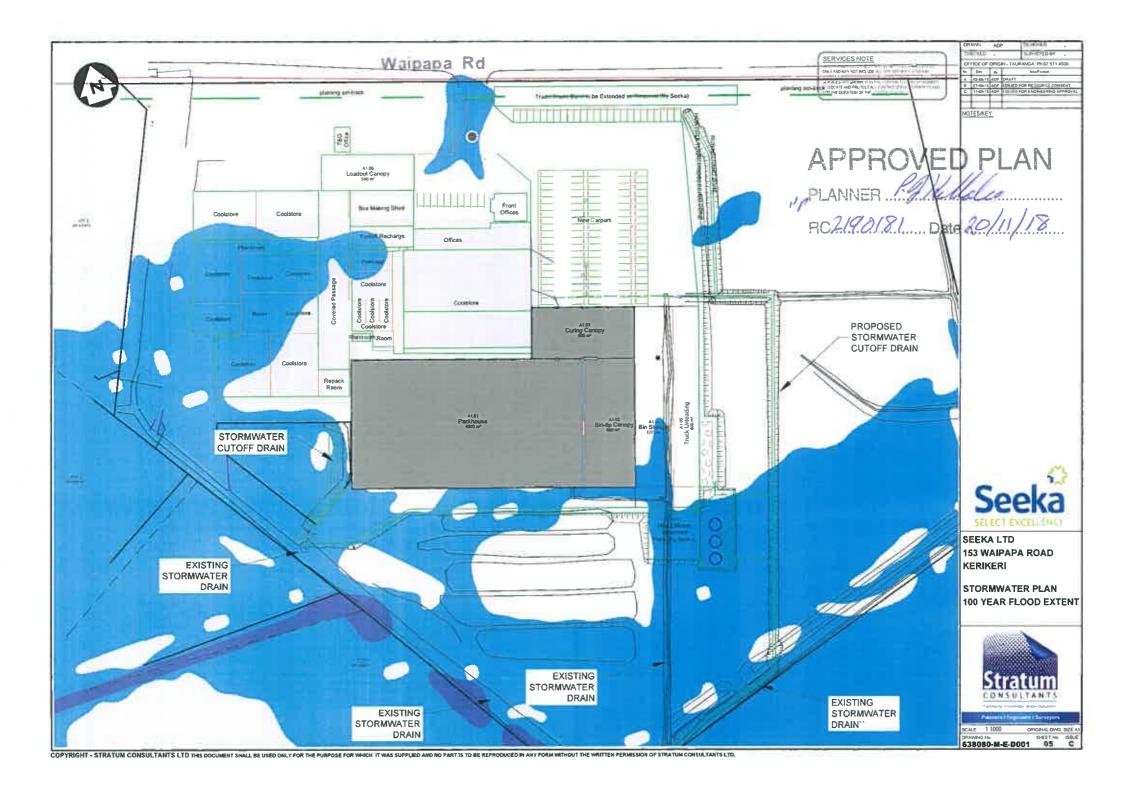
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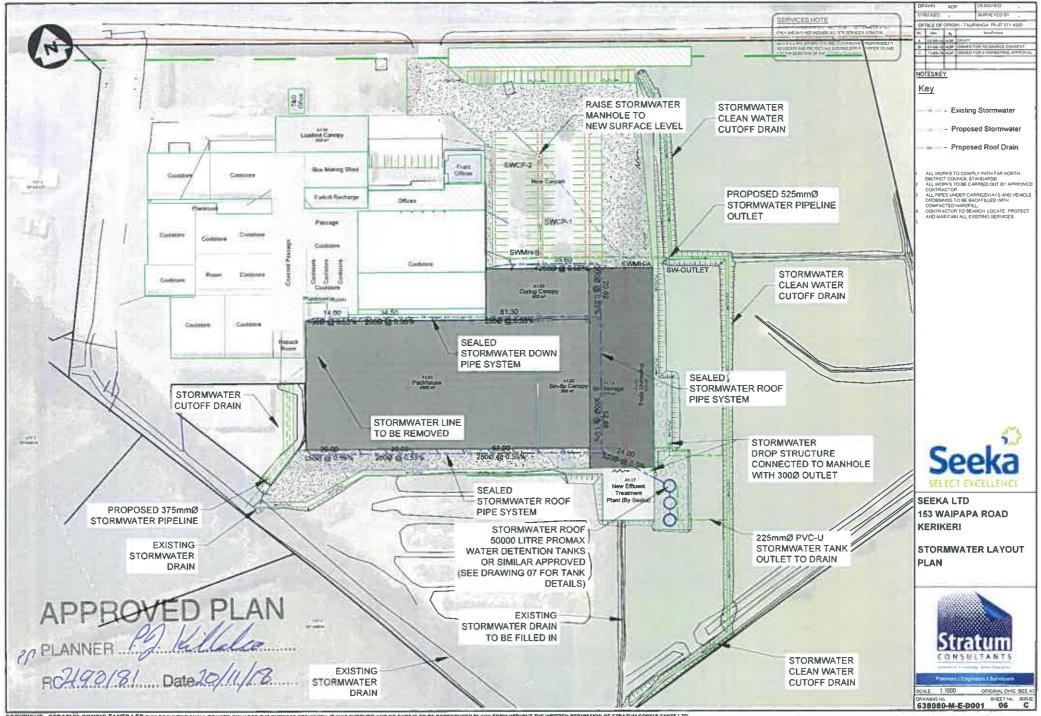


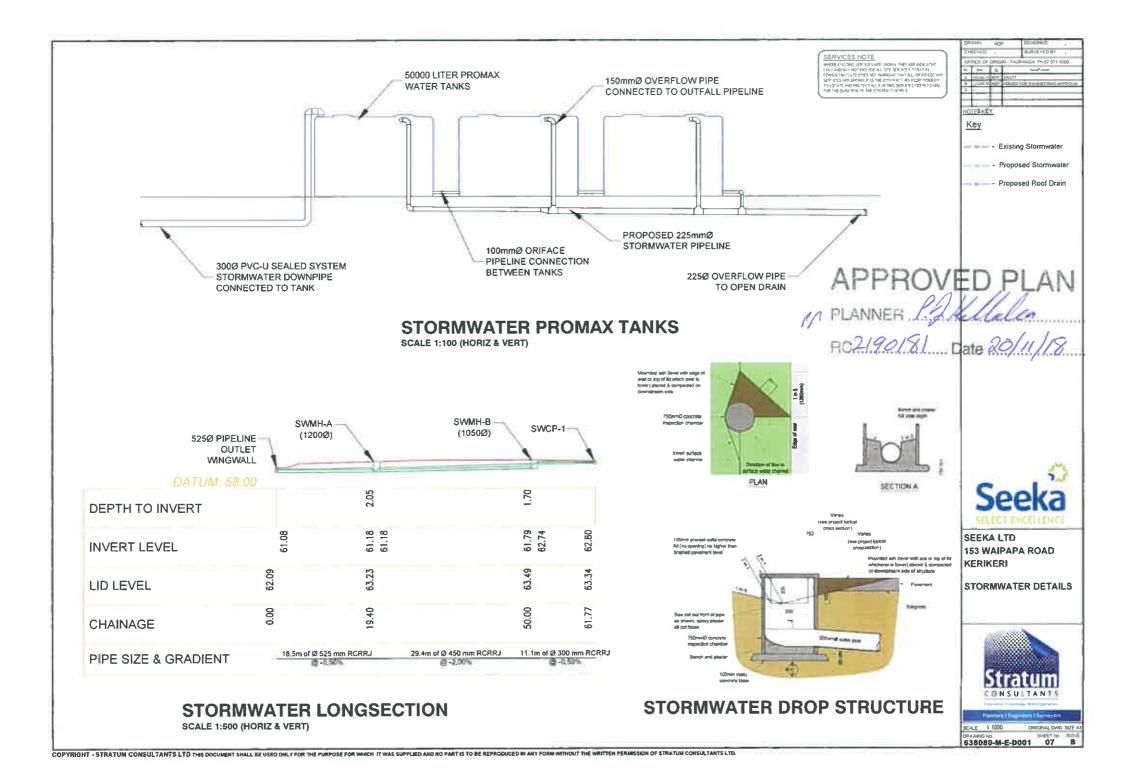


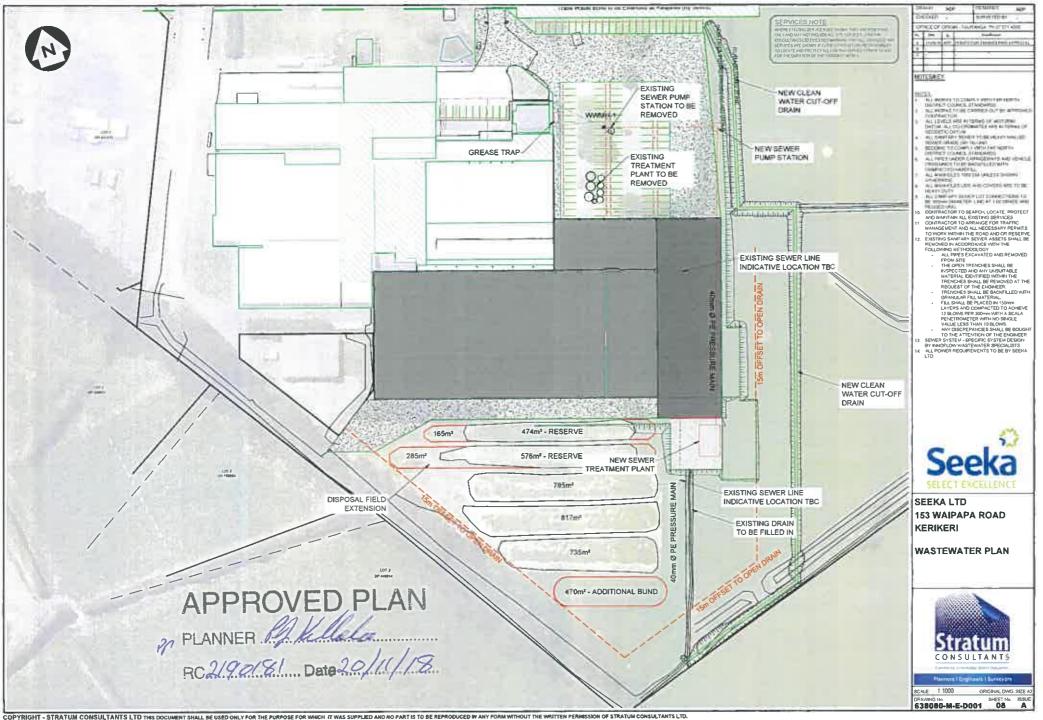


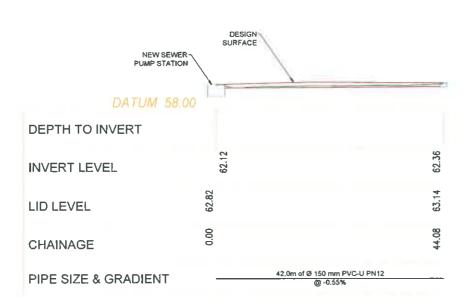












SERVICES NOTE

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NOTESKEY

- AL WORKS TO COMPLY WITH FAR NORTH DISTRICT COUNCIL STANDARDS ALL WORKS TO BE CARRIED OUT BY APPROVED CONTRACTOR

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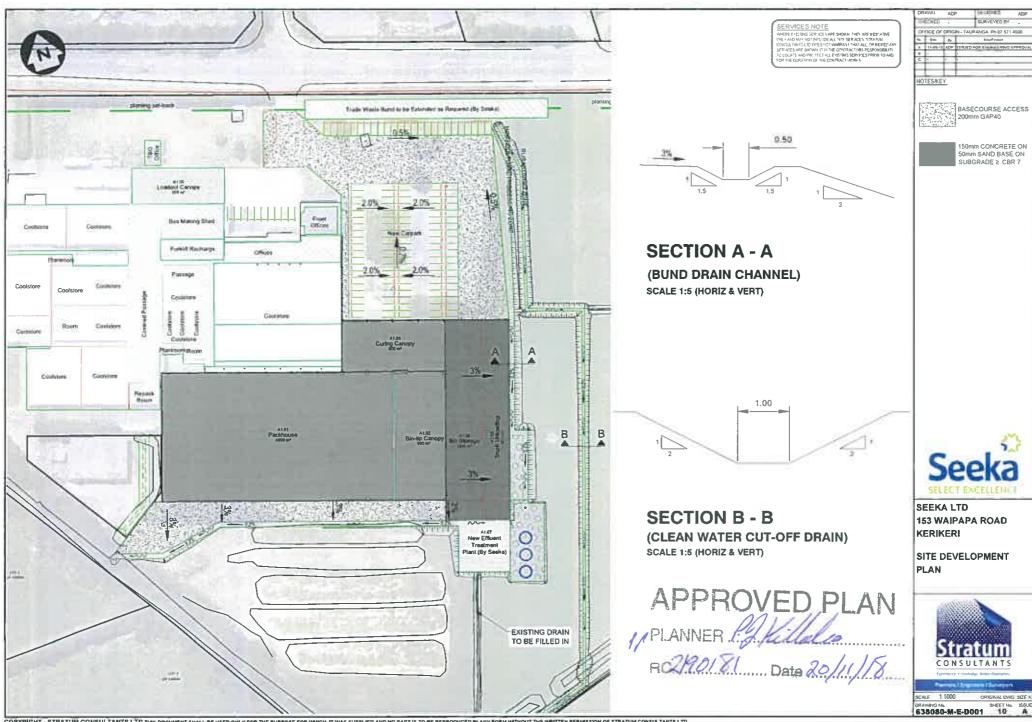
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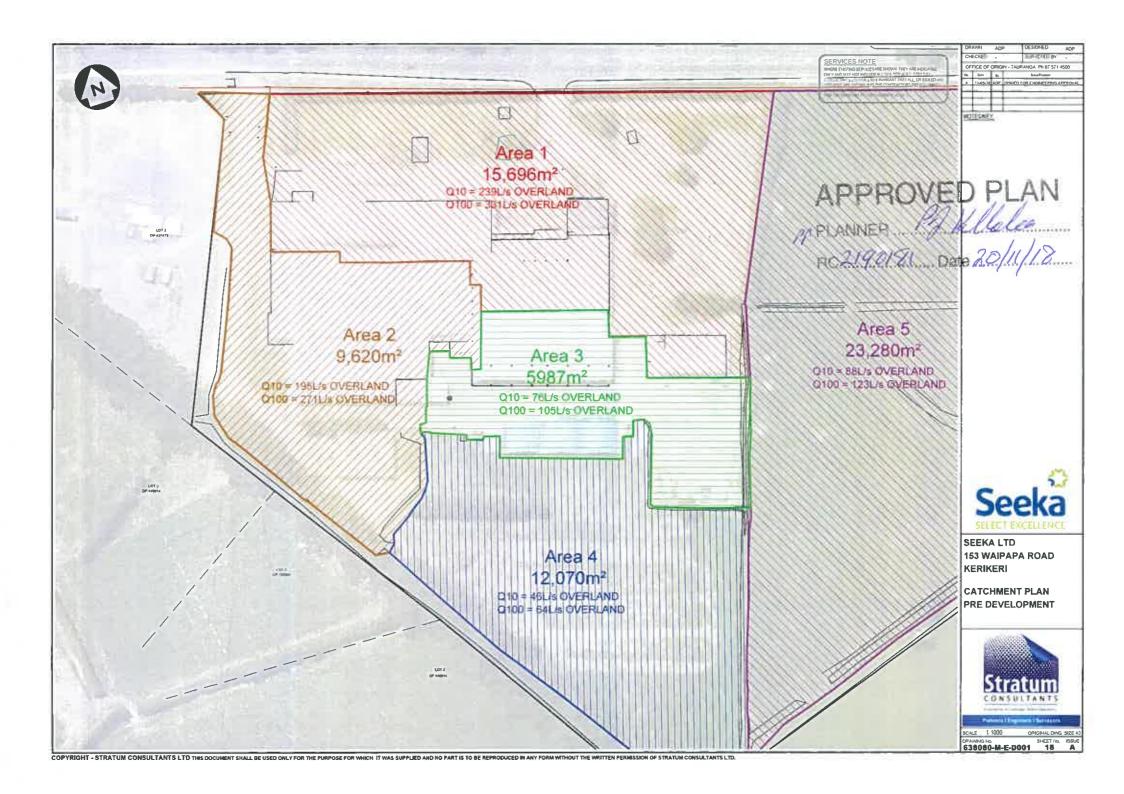
WASTEWATER LONG SECTION

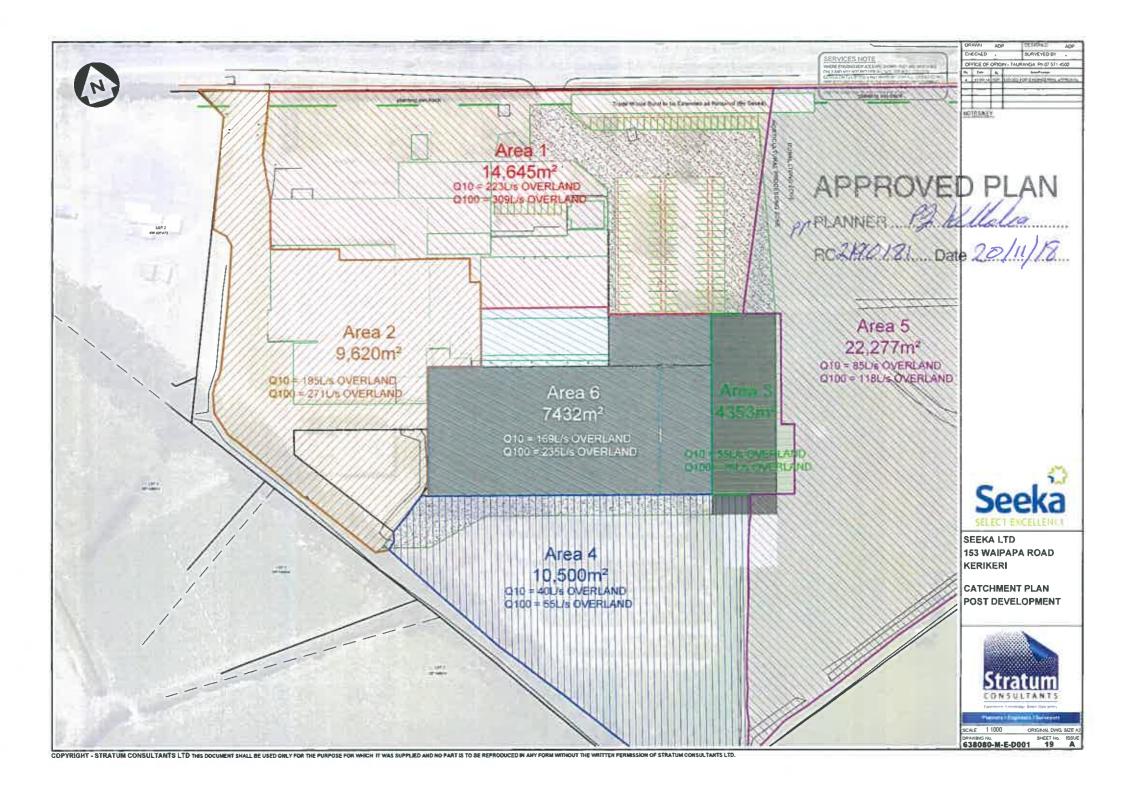


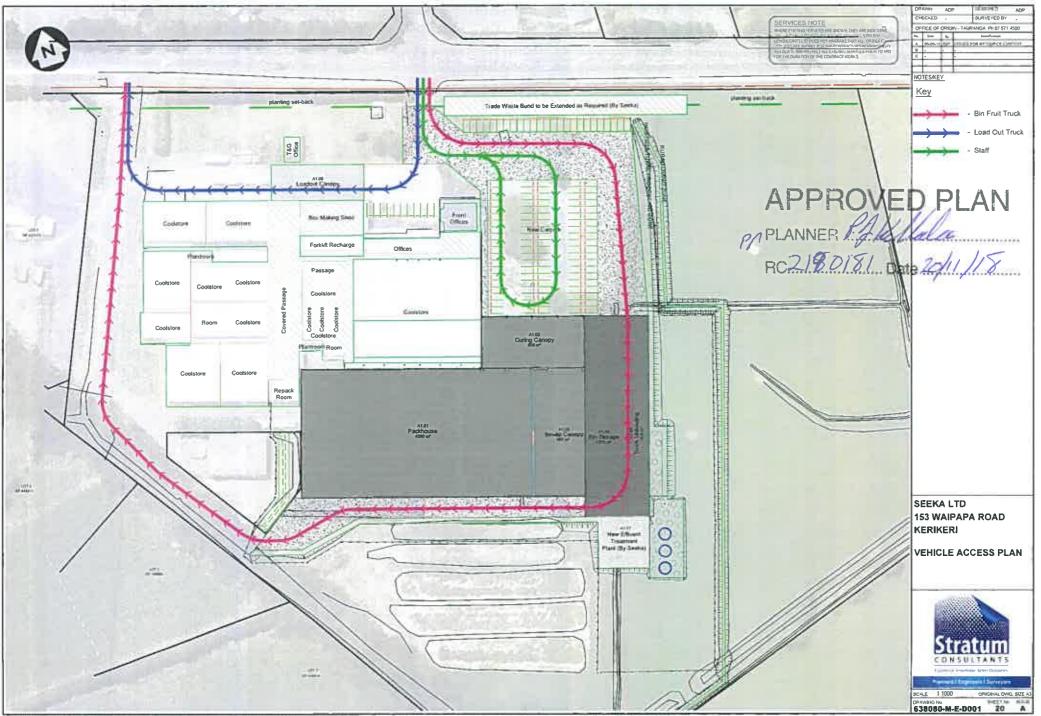
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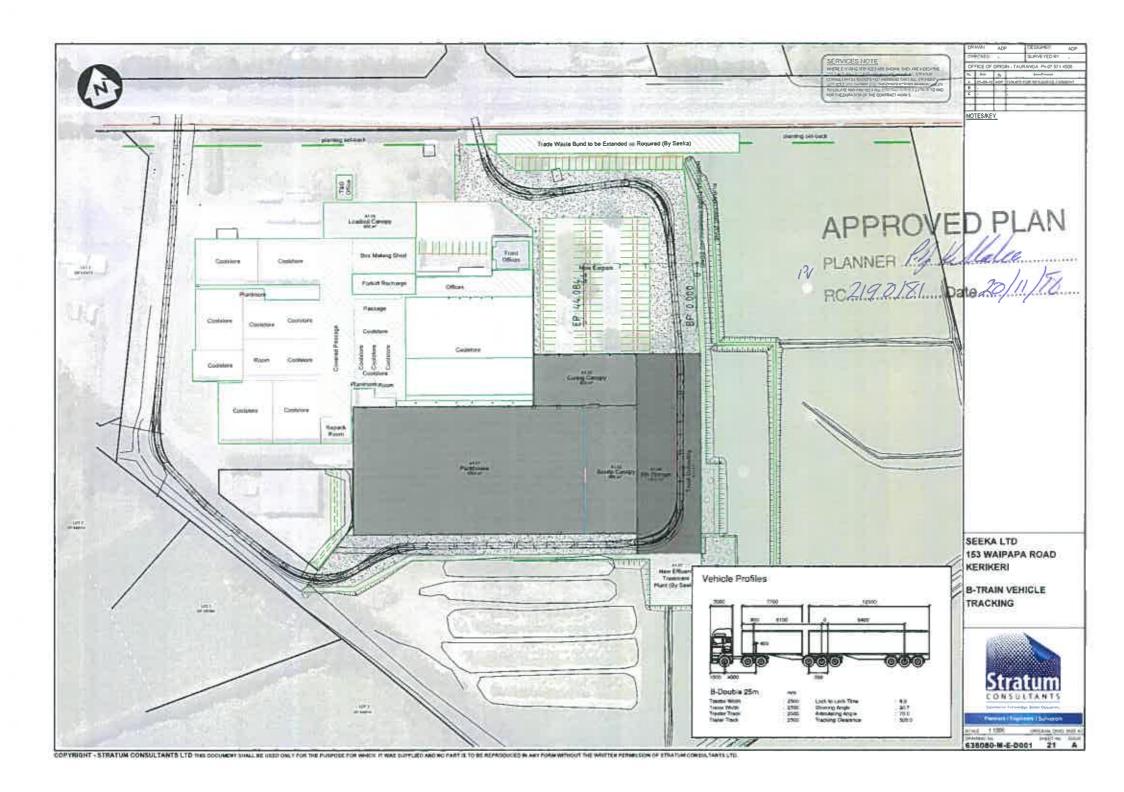
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Accidental Discovery Protocol (ADP)

Prior to the commencement of any works, a copy of this ADP should be made available to all contractors working on site.

Under the *Historic Places Act* (1993) an archaeological site is defined as a place associated with pre-1900 human activity, where there may be evidence relating to the history of New Zealand. Over 11,000 archaeological sites have been recorded in Northland, and more are identified on a regular basis.

For Maori sites (the most common site types in Northland), the largest and most obvious site types are pa, pits and terraces. However, evidence may be of a smaller nature, in the form of bones, shells, charcoal, burnt stone etc; a midden is an archaeological rubbish tip, in which many of these items can be found consolidated together. Evidence of disturbance of a midden can be a scattering of shell across a wide area; this can be confusing if it is near a beach. Pieces of obsidian or chert, together with stone tools, may also be recovered.

In later sites of European origin artefacts such as bottle glass, iron/metal, crockery etc. may be found, or evidence of old foundations, wells, drains or similar structures.

Burials/koiwi tangata may be found from any period.

Some examples:

Historic pottery on a roadside scrape



In the event of an "accidental discovery" of archaeological material the following steps must be taken:

Shell midden uncovered in road scraping

A flight of pits in forest

- All work on the site will cease immediately. The contractor works supervisor will shut down all equipment and activity.
- The contractor/works supervisor/owner will take immediate steps to secure the site (tape it off) to ensure the archaeological remains are undisturbed and the site is safe in terms of health and safety requirements. Work may continue outside of the site area.
- 3. The contractor/works supervisor/owner will notify the Area Archaeologist of the Historic Places Trust (Northland Office), tangata whenua and any required statutory agencies if this has not already occurred.
- 4. The New Zealand Historic Places Trust will appoint/advise a qualified archaeologist who will confirm the nature of the accidentally discovered material.
- 5. If the material is confirmed as being archaeological, under the terms of the *Historic Places Act*, the landowner will ensure that an archaeological assessment is carried out by a qualified archaeologist, and if appropriate, an archaeological authority is obtained from the Trust before work resumes.
- 6. If burials, human remains/koiwi tangata are uncovered, steps 1 to 3 above must be taken and the Area Archaeologist of the Historic Places Trust, the New Zealand Police and the Iwi representative for the area must be contacted inunediately. The area must be treated with discretion and respect and the koiwi tangata/human remains dealt with according to law and tikanga.
- 7. Works at the site area shall not recommence until an archaeological assessment has been made, all archaeological material has been dealt with appropriately, and statutory requirements met. All parties will work towards work recommencement in the shortest possible timeframe while ensuring that archaeological and cultural requirements are complied with

ADVICE TO ALL CONTRACTORS/SITE WORKERS/OWNERS:-

IF IN DOUBT, STOP AND ASK; TAKE APHOTO AND SEND IT TO THE NZHPT ARCH HOLOGIST (details below)

Contact details for the Area Archaeologist for Northland are

Bill Edwards, Area Archaeologist Northland or Shelagh Norton, Assistant Area Archaeologist Northland NZ Historic Places Trust PO Box 836, Kerikeri 0245 Ph. +64 9 401 7947; mobile 027 2490864; fax. +64 9 407 3454 bedwards@thistoric org.nz or snerton/a historic org.nz

For example, the New Zealand Police in the event that homan temains are found.

Appendix D

Stormwater Assessment





Memorandum

To: Seeka Ltd File No: 638080-CLV -SW memo

Attention:

From: S Bos

Date: 11 June 2025

Subject: 153 Waipapa Road, Kerikeri

Additional Canopy Extension – Stormwater mitigation

As per Seeka's advice we confirm the following:

• It is proposed to provide for an additional area of canopy on the southeast corner of the existing main building.

- The new canopy will add an additional 1428 sq metres of roof area.
- There is also a requirement to cater for an additional 205 sq metres of additional development elsewhere on the site.
- Currently the site stormwater flow is mitigated with initial discharge to 4 x 50,000 litre retention tanks that then release the flow to the site boundary.
- The tanks are controlled by a 100 and 80 mm diameter orifice outlets with a high level 150 mm outlet.
- To account for the additional discharge area, it is recommended that a further 2 x 50,000 litre tanks are added to the retention tanks 'farm'.
- We have provided calculations, PS 1 and drawings outlining the requirements and confirming the derivation of the additional storage volume requirement.

Based on the provision of the additional storage mitigation we confirm that the site discharge remains as per the existing outflows, with no increase or change of effects at the boundary.

Should you have any queries on the information supplied please contact the undersigned. Yours faithfully,

Stratum Consultants Ltd

Stephen Bos

CPEng, CMEngNZ, BE, NZCE





PRODUCER STATEMENT – PS1 DESIGN

BUILDING CODE CLAUSE(S):	E1	JOB NUMBER: 63808	30						
ISSUED BY:	STRATUM CONSULTANTS LTD								
(Engineering Design Firm)	CEEKA LIAMED		1						
TO: (Owner/Developer)	SEEKA LIMITED								
TO BE SUPPLIED TO:	FAR NORTH DISTRICT COUNCIL								
(Building Consent Authority)	TARROW DISTRICT COOKER		I						
IN RESPECT OF:	XTENSION								
(Description of Building Work)	DESIGN OF STORMWATER CAPTURE AND RETENTION FOR CANOPY EXTENSION								
AT:	153 Waipapa Road, Kerikeri								
(Address, Town/City)		1							
LEGAL DESCRIPTION:	LLot 3 DP 196433		N/A 🗌						
DESIGN OF RETENTION TANKS	owner/developer referred to above SAND STORMWATER DRAINAGE FOR of the Clause(s) of the Building Code ding work.	R NEW CANOPY EXTENSION	: , as specified in the						
• Compliance docum	as been prepared in accordance with nents issued by the Ministry of Busin		1						
solution) NZBC E1 / A ■ Alternative solution	$1000 \mathrm{s} 1 \mathrm{J} J$		and/or;						
	overed by this producer statement is ner documents set out in the Schedul		d in the Schedule, together						
On behalf of the Engineering	r		1						
	e following design assumptions: Gro cts meeting their performance speci		Geotechnical report .						
I believe on reasonable groun	ds that:								
Schedule, will comply	ucted in accordance with the drawing with the relevant provisions of the l	Building Code and that;	nents provided or listed in the						
 the persons who have 	e undertaken the design have the ne	cessary competency to do so.							
I recommend the CM 3	level of construction monitoring.								
I, (Name of Engineering Design CPEng number 154			, am:						
and hold the following qu	ıalifications BE (hons), CPEng, CMEnլ	gNZ, NZCE (civil)							
	olds a current policy of Professional		5200,000						
SIGNED BY (Name of Engineeri (Signature below):	ing Design Professional): STEPHEN B	os							
	180/m								

ON BEHALF OF (Engineering Design Firm):

STRATUM CONSULTANTS LTD Date: 11/06/2025

Note: This statement has been prepared solely for the Building Consent Authority named above and shall not be relied upon by any other person or entity. Any liability in relation to this statement accrues to the Engineering Design Firm only. As a condition of reliance on this statement, the Building Consent Authority accepts that the total maximum amount of liability of any kind arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in tort or otherwise, is limited to the sum of \$200,000.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

 Job Number
 638080
 Page 1 of 3
 November 2021

SCHEDULE to PS1

Please include an itemised list of all referenced documents, drawings, or other supporting materials in relation to this producer statement below:

DESIGN VERIFICATION OF STORMWATER PIPE SIZIGN AND NEW RETENTION TANKS FOR SITE EXPANSION WORKS

GUIDANCE ON USE OF PRODUCER STATEMENTS

Information on the use of Producer Statements and Construction Monitoring Guidelines can be found on the Engineering New Zealand website

https://www.engineeringnz.org/engineer-tools/engineering-documents/producer-statements/

Producer statements were first introduced with the Building Act 1991. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects (NZIA), Institution of Professional Engineers New Zealand (now Engineering New Zealand), Association of Consulting and Engineering New Zealand (ACE NZ) in consultation with the Building Officials Institute of New Zealand (BOINZ). The original suite of producer statements has been revised at the date of this form to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with part of the reasonable grounds necessary for the issue of a Building Consent or a Code Compliance Certificate, without necessarily having to duplicate review of design or construction monitoring undertaken by others.

PS1 DESIGN Intended for use by a suitably qualified independent engineering design professional in circumstances where the BCA accepts a producer statement for establishing reasonable grounds to issue a Building Consent;

PS2 DESIGN REVIEW Intended for use by a suitably qualified independent engineering design review professional where the BCA accepts an independent design professional's review as the basis for establishing reasonable grounds to issue a Building Consent;

PS3 CONSTRUCTION Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:2013 or Schedules E1/E2 of NZIA's SCC 2011²

PS4 CONSTRUCTION REVIEW Intended for use by a suitably qualified independent engineering construction monitoring professional who either undertakes or supervises construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACE New Zealand and Engineering New Zealand to interpret the Producer Statement.

Competence of Engineering Professional

This statement is made by an engineering firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the firm and competence of its personnel.

The person signing the Producer Statement on behalf of the engineering firm will have a professional qualification and proven current competence through registration on a national competence-based register such as a Chartered Professional Engineer (CPEng).

Membership of a professional body, such as Engineering New Zealand provides additional assurance of the designer's standing within the profession. If the engineering firm is a member of ACE New Zealand, this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent engineering professional".

Professional Indemnity Insurance

As part of membership requirements, ACE New Zealand requires all member firms to hold Professional Indemnity Insurance to a minimum level.

The PI Insurance minimum stated on the front of this form reflects standard practice for the relationship between the BCA and the engineering firm.

Professional Services during Construction Phase

There are several levels of service that an engineering firm may provide during the construction phase of a project (CM1-CM5 for engineers³). The building Consent Authority is encouraged to require that the service to be provided by the engineering firm is appropriate for the project concerned.

Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

Refer Also:

- Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- ² NZIA Standard Conditions of Contract SCC 2011
- Guideline on the Briefing & Engagement for Consulting Engineering Services (ACE New Zealand/Engineering New Zealand 2004)
- ⁴ PN01 Guidelines on Producer Statements

www.acenz.org.nz www.engineeringnz.org Job Title Site Address SEEKA Ltd

153 Waipapa Road

City Kerikeri *Job No.* 638080

Page
No of Pages
Date June 25
By SB



TGA REV 3 - 13/08/2019

Stormwater Catchment Data

Existing Site Area = 7988 m²

Existing runoff coeff 0.5 From Original Calc

Rainfall Intensities mm/hr HIRDS

Return		Durat	ion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	132.0	95.6	79.1	56.8	39.9	21.3	13.7
50	178.0	129.0	107.0	77.3	54.4	29.2	18.8
100	199.0	144.0	120.0	86.2	60.8	32.8	21.1

Revised runoff coeff Runoff coeff Total **Building Coverage** 6355 0.9 5720 Canopy 1428 0.9 1285 Future Roof area 205 0.9 184.5 wastewater 0.3 Balance 0.3 0 7189 Average runoff coeff = 0.9

Existing Site Discharge (Q = CIA) /s

Return		Durat	ion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	146.4	106.1	87.8	63.0	44.3	23.6	15.2
50	197.5	143.1	118.7	85.8	60.4	32.4	20.9
100	220.8	159.8	133.1	95.6	67.5	36.4	23.4

Developed Site Discharge (Q = CIA) //s

Return		Durat	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	263.6	190.9	158.0	113.4	79.7	42.5	27.4
50	355.5	257.6	213.7	154.4	108.6	58.3	37.5
100	397.4	287.6	239.6	172.1	121.4	65.5	42.1

Orifice Plate sizing

 $Q = cA (2gH)^{\Lambda^{0.5}}$

c= 0.609 H = 3.1 Existing Tank and Orifice Bae Level Outlet
Orifice Plate diameter = 100 mm Area = 0.008

Q @ max head = 37.3 l/s (less than peak non developed flow)

Storage Required - m^{3 -} (inflow less outflow x storm duration

Return		Durat	ion (mir	nutes)			
Period	10	20 30		60	120	360	720
10	135.8	184.3	217.2	274	305	113	-429.6
50	190.9	264.4	317.5	421	514	454	10.4
100	216.1	300.3	364.2	485.4	605.6	609	208.8

USE $6 \times PROMAX$ WATER TANK (50,000 LITRES) PLUMBED INTO SW DOWNPIPES (FROM HIGH LEVEL) WITH 100mm DIAMETER OUTLET TO SW DRAIN TANK TO BE NOMINALLY EMPTY AND TO FILL DURING RAINFALL EVENTS

	JOB TITLE	Seeka Katikati				1	I
Stratum Consultants Ltd	ADDRESS						I
	JOB No.	638080	DATE	June 25	BY	SJB	I

OK OK

OK

Stormwater pipe sizing

Location 153 Waipapa Road, Kerikeri 2095

Design rate is 1 in 10 year Tc = 10min

							n	1							
LINE	Contributing	Contributing	C	I	Q 1/s	Sum Q	IL	IL	Diff	Dist	GRADIENT	PIPE	Pipe Dia	Pipe	
	Lot	Area			Q = CIA	<u>.</u>	1st point	2nd point		Between		Roughness	Rqd	Capacity	
		m^2		mm/Hr	1/s	l/s	m	m	m	m		K	mm	1/s	
DP set 1	Canopy 1	928.00	0.9	132	30.62	31					0.50%	1.5	250	35	
DP set 2	Canopy 2	500.00	0.9	132	16.50	17					0.50%	1.5	200	20	
		combined				47					0.50%		300	65	
		0.00	2	2		CONTENT									

0.00 m² m² TOTAL CONTRIBUTING AREA

HIRDS V4 Intensity-Duration-Frequency Results

Sitename: 1 Kerikeri 2095

Coordinate system: WGS84

Longitude: 173.948 Latitude: -35.2091

DDF Model Parameters c d e f g h i

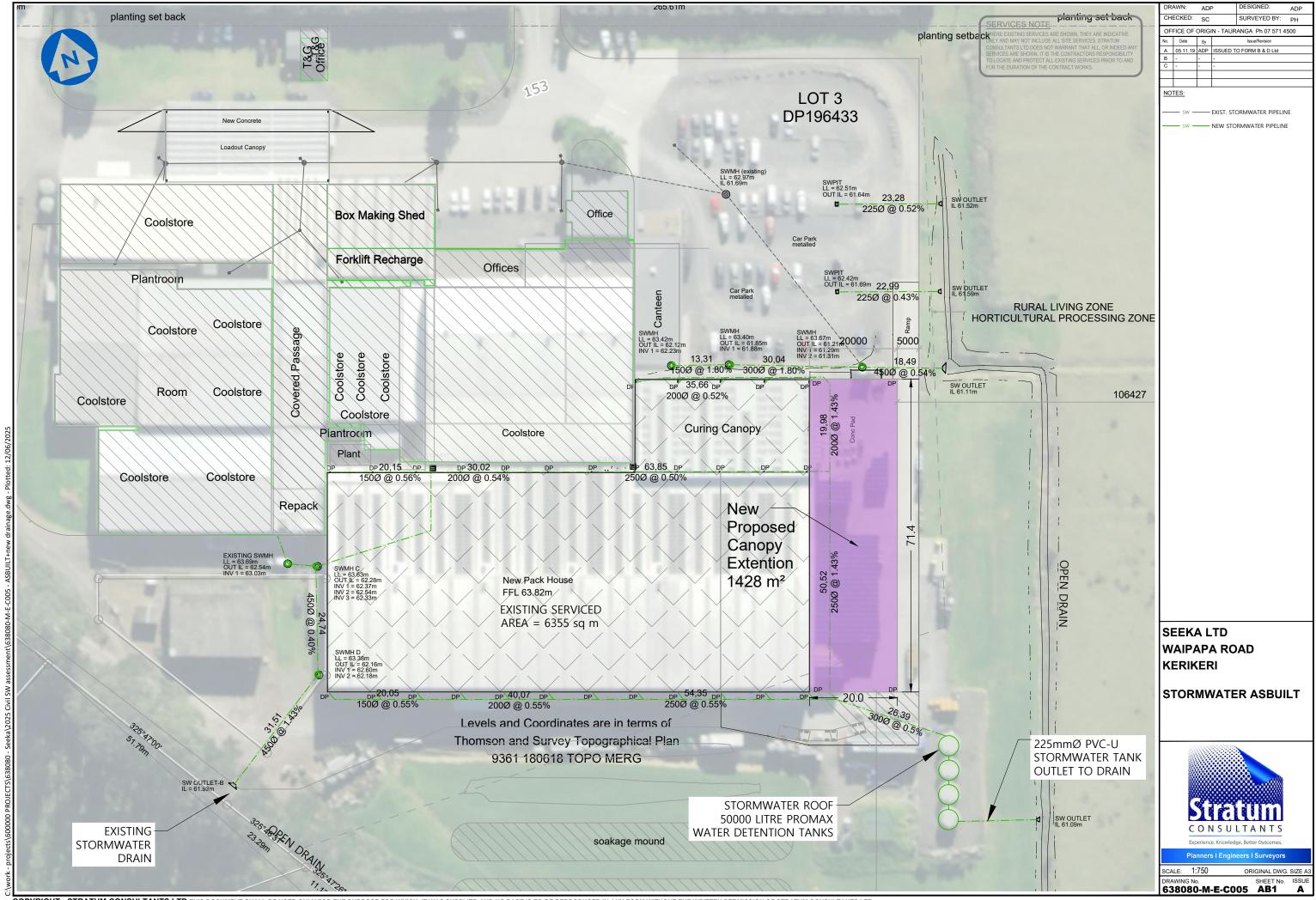
Values: 0.002375 0.509989 -0.014502 -0.003816 0.253522 -0.011696 3.23771

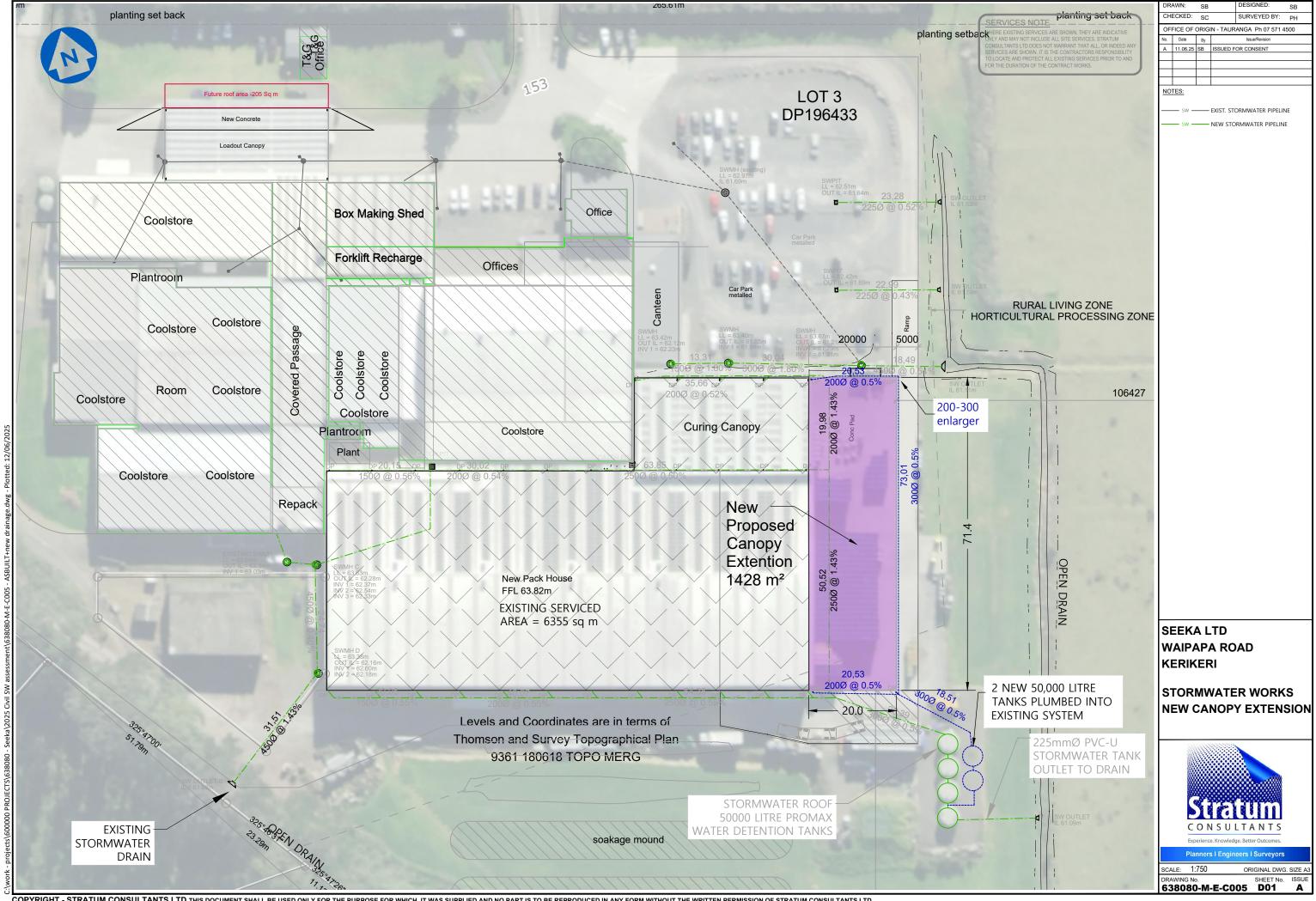
Example: Duration (h ARI (yrs) x y Rainfall Rate (mm/hr)

24 100 3.178054 4.600149 10.64305

Rainfall intensities (mm/hr) :: Historical Data

		,											
ARI	AEP	10m	20m	30m	1h	2h	6h	12h	24h	48h	72h	96h	120h
10	0.1	98.8	71.5	59.1	42.5	30.1	16.6	11	6.96	4.2	3.04	2.39	1.97
50	0.02	132	96	79.6	57.3	40.7	22.6	15	9.51	5.75	4.17	3.29	2.71
100	0.01	147	107	88.5	63.8	45.4	25.3	16.7	10.6	6.44	4.68	3.69	3.04
Rainfall inte	ensities (mn	n/hr) :: RCP8	.5 for the pe	riod 2031-2	050								
ARI	AEP	10m	20m	30m	1h	2h	6h	12h	24h	48h	72h	96h	120h
10	0.1	110	79.4	65.7	47.2	33.3	18.2	11.9	7.44	4.45	3.21	2.51	2.06
50	0.02	148	107	88.7	63.9	45.3	24.8	16.2	10.2	6.11	4.42	3.46	2.85
100	0.01	164	119	98.7	71.2	50.5	27.7	18.2	11.4	6.85	4.96	3.89	3.2
Rainfall inte	ensities (mn	n/hr) :: RCP8	.5 for the pe	riod 2081-2	100								
ARI	AEP	10m	20m	30m	1h	2h	6h	12h	24h	48h	72h	96h	120h
10	0.1	132	95.6	79.1	56.8	39.9	21.3	13.7	8.41	4.95	3.55	2.76	2.26
50	0.02	178	129	107	77.3	54.4	29.2	18.8	11.6	6.85	4.91	3.83	3.13
100	0.01	199	144	120	86.2	60.8	32.8	21.1	13	7.69	5.52	4.3	3.52





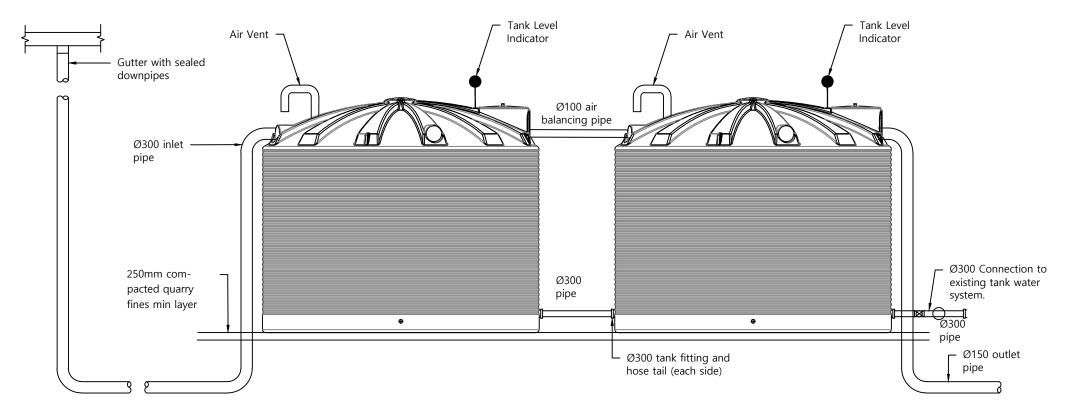


SERVICES NOTE

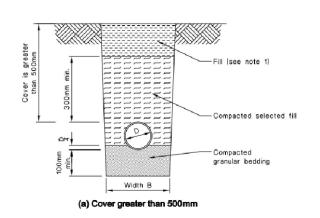
WHERE EXISTING SERVICES ARE SHOWN, THEY ARE INDICATIVE ONLY AND MAY NOT INCLUDE ALL SITE SERVICES. STRATUM CONSULTANTS LTD DOES NOT WARRANT THAT ALL, OR INDEED ANY SERVICES ARE SHOWN. ITS IT HE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING SERVICES PRIOR TO AND FOR THE DURATION OF THE CONTRACT WORKS.

	DR	AWN:	SB		DESIGNED:	SB					
	CH	ECKED:	SC		SURVEYED BY:	PH					
	OF	OFFICE OF ORIGIN - TAURANGA Ph 07 571 4500									
	No.	Date	Ву		Issue/Revision						
	Α	11.06.25	SB	ISSUED F	OR CONSENT						
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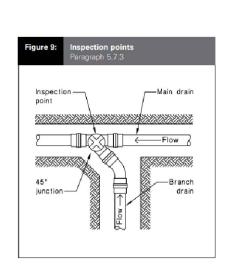
- SW ——— EXIST. STORMWATER PIPELINE
- SW ——— NEW STORMWATER PIPELINE

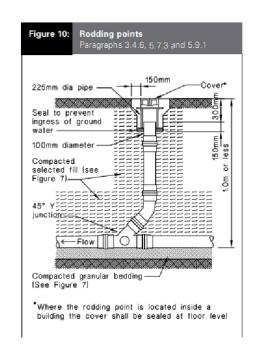


ADDITIONAL Tank Schematic - 1:50 @ A3



Bedding and Backfill Detail - nts





SEEKA LTD WAIPAPA ROAD KERIKERI

STORMWATER DETAILS



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ORIGINAL DESIGN REPORT

MEMORANDUM



To:

SEEKA Ltd

File No. 638080-M-E-D001

Attention:

Michael Ruegg

From:

Alex du Plessis

Date:

16.10.2018

Subject:

Seeka Coolstore Site, 153 Waipapa Road, Kerikeri

Introduction

Please find attached supporting documents for your building consent lodgement for the proposed coolstore at the above site. Further commentary is provided under the relevant headings.

Site Works

Site works are being carried out in accordance with the recommendations of our geotechnical assessment report¹, and the resource consent for large scale earthworks obtained from Northland Regional Council² and Far North District Council³

Works comprise undercutting unsuitable material comprising topsoil and uncertified fill from beneath the building platform and backfilling with imported granular fill.

The completed works will provide a platform suitable for construction of the proposed coolstore.

Site works are being carried out with appropriate geotechnical monitoring comprising site inspections by geotechnical engineers and progressive testing of compacted fill material.

Upon completion, a summary report including as built will be prepared and PS4 issued for the works.

Stormwater Disposal

Attached are plans, calculations and a PS1 for the stormwater drainage works on site.

Comparison of total site discharge for predevelopment and post development has been calculated for a 100 year / 10 minute storm).

Pre-development Runoff

1173l/s

Post-development Run-off

1344l/s - Pre-mitigation

Post Development Run-off

1119l/s - Post-mitigation

The total detention for the site was assessed and an attempt was made to mitigate only the roof stormwater, so as to not require any other site stormwater control.

¹ Geotechnical Assessment prepared by Stratum Consultants Ltd dated 8.08.2018 and referenced 638080-M-E-C003

 $^{^2}$ Northland Regional Council Resource Consent File: 40373 - AUT.040373.01.01 to AUT.040373.04.01.

³ Far North District Council Consent File: 2190096-RMALUC.

Based on the fact that the carparks and hardstand (on ground and therefore by default not able to be serviced by a standard detention tanks) are of a similar size as the new building, mitigation of the roof water alone is sufficient to ensure that the post development flow was less than the predevelopment. The carpark will be constructed using an unsealed surface with metal placed and swale grass drains to treat stormwater runoff as it drains to the southern boundary. It was noted that some maintenance and cleaning need to be done on the existing catchpits and stormwater system to provide better stormwater runoff.

Accordingly, the areas were therefore examined on roofed area and 'on ground' area basis, with the roofed area provided with stormwater control tanks, sized to mitigate the 1 in 100 year 60 minute storm.

It is recommended that Promax 50,000 Litre tanks be installed (4 in total for roofed area) and all down pipes be piped to the retention tanks. The outfall for the tanks should be controlled by a 100mm diameter orifice plate for the 10 year/60-minute storm, which then connects to the piped stormwater system to open drain. A second 80mm diameter orifice was calculated and need to be placed 2.45m higher than 100mm diameter orifice on the tanks for the 100 year/60-minute storm. This will allow attenuation for both storm events.

The restricted runoff from the 100mm diameter orifice was calculated to be 37.3l/s less than peak non developed flow and 83.93l/s less than peak non developed flow for the 100 year/10-minute storm. (See drawing 638080-M-E-D001 SHT 07 for details on the stormwater tanks layout).

On ground: - To future proof the development a 375mm diameter pipeline will be installed from SWMH A to the outlet. The upstream pipeline form SWMH A to SWMH B will be serviced by a 300mm diameter pipeline. Which will be used for a future cool storage building upgrade and unsealed carpark and access surfaces.

The access road to the north and to the front of the new development should be provided with a nominal fall to the open grassed drain (located at the low point). The open drain is flowing south and is east of the new development and flows for slow release to the adjacent existing Stormwater system.

Provision of both sets of stormwater controls will therefore result in controlled discharge of the development site to a lesser predevelopment level.

Wastewater Disposal

Wastewater to be installed by Innoflow.

Site Access

Metaled areas:

Excavate for access and paved areas to the line, gradient and levels shown on the drawings.

Should any excavation be made below the level required or directed, the Contractor must fill the over excavation with compacted hardfill.

After the subgrade has been trimmed and compacted to level and prior to the placement of basecourse the Engineer shall inspect the subgrade and may carry out CBR testing. The Engineer shall also inspect the basecourse prior to paving or laying foundations.

If unsuitable ground, rock or underground obstruction is encountered during excavation, notify the Engineer and cease work in that area until inspected and agreement on volume and rate for removal is agreed.

Basecourse GAP40 metal shall be spread evenly from trucks with tailboards set for spreading, avoiding all unnecessary segregation. (Refer drawings for details.) It shall then be evenly spread over the full width of the strip being metalled to a maximum depth of 125mm loose.

Compaction shall be carried out immediately after the basecourse has been spread. Compact by rolling with a 10 to 12 tonne steel wheeled roller until solid. Water shall be added as necessary.

The roller shall begin at the channel or low side and moving longitudinally, progress towards the high side or crown working the metal thoroughly until it does not weave or creep. Additional layers shall then be placed in a similar manner until the total compacted thickness has been reached. Judicious hand spreading of mineral fines, at the Contractors expense, to open textured areas will be permitted. Moistening and blading of metal shall be kept to a minimum.

2. Concrete areas:

The Truck Unloading area shall be generally be concrete with 663 mesh layer laid central and a minimum 28 day strength of 20MPa and with a minimum thickness of 150mm on a compacted subgrade. The construction boxing shall be 150mm thick.

The concrete shall be supplied to the site from a certified ready mix concrete supplier. Concrete shall comply with NZS 3109 and dockets to validate this shall be provided upon completion.

Contraction joints shall be cut by guillotine and spaced at not more than 6.0m centres.

Cold joints in concrete more than two hours old shall be cut with a saw to provide a proper face on which to restart the extrusion.

The exposed surface of all concrete shall present a neat clean broom finish. All final surfaces shall be true to the lines and levels specified. Design considerations excepted, the final surface shall not vary by more than 5mm when checked with a 3m straight edge. No finished surface shall hold water.

Care shall be taken to ensure that no damage is done to the concrete structure when placing and compacting the backfill from the metaled access areas.

If you have any further questions, please call me.

Yours faithfully STRATUM CONSULTANTS LTD

Alex du Plessis Civil Engineer

Attachments: -

- Drawing No 638080-M-E-D001 Sheets 6, 7 and 11
- Stormwater calculations
- PS1

Job Title

SEEKA Ltd

Site Address

153 Waipapa Road

City Job No.

Kerikeri

638080

Page No of Pages Date Oct 18 By ADP



TGA REV 2 - 07/07/2010

Extreme rainfall assessment with climate change

1.58 0.633 66 6 47.7 39 4 28.2 19 5

5.00 0.200 90.0 64.5 53.2 38.2 26.5 14.9

40.00 0.025 138.0 100.2 82.6 59.8 41.9 23.8

60.00 0.017 150.0 108.6 89.8 64.9 45.5 25.8

50.00 0.020 145.2 104.7 86.6 62.6 43.8

consequential, arising out the use of HIRDSV3. @2018 NIWA

10m 20m 30m 60m 2h

0.500 71.4 51.6 42.2 30.2 20.9 11.7

10.00 0.100 104.4 75.0 62.0 44.6 31.1 17.5 12.2 8.5

80.00 0.012 159.0 114.9 95.0 68.8 48.2 27.4 19.2 13.4 7.9

100.00 0.010 166.2 120.3 99.6 71.9 50.4 28.6 20.1 14.0 8.3

methods. Nevertheless, NIWA does not accept any liability, whether direct, indirect or

In preparing this table, all reasonable skill and care was exercised using best available data &

Projected temperature change: 2.1° C Rainfall intensities (mm/h)

20.00 0.050 120.6 87.0

30.00 0.033 130.2 94.2

ARI (V) aep

2.00

Stormwater Catchment Data

Existing Site Area =

7432 m²

Existing runoff coeff

0.5

Rainfall Intensities mm/hr HIRDS

1 (011110		71000	7111111111111				
Return		Durat	Duration (minutes)				
Period	10	20	30	60	120	360	720
10	104.4	75.0	62.0	44.6	31.1	17.5	12.2
50	145.2	104.7	86.6	62.6	43.8	24.9	17.4
100	166.2	120.3	99.6	71.9	50.4	28.6	20.1

Revised runoff coeff		Runoff	
		coeff	Total
Building Coverage	6632	0.9	5969
Canopy	800	0.9	720
Parking roadway		0.45	0
wastewater		0.3	0
Balance	0	0.3	0
			6689
Average runoff	coeff =		<u>0.9</u>
			1

Duration

6h

71.6 51.7 36:1 20.4 14.3 10.0 5.9

78.0 56.4 39.5 22.5

10.8 7.5

12h

10.4 7.2

15.7 11.0

18.1 12.7

16.7 11.7

24h

72h

2.2

2.4

3.1

4.3

4.7

5.3

5.5

5.8

6.1

5.0 3.7

6.5

Existing Site Discharge (Q = CIA) 1/s

The second secon		.,				
Return		Durat	tion (mi	nutes)		
Period	10	20	30	60	120	36

60 720 10 107.8 77.4 64.0 46.0 32.1 18.1 12.6 50 149.9 108.1 89.4 64.6 45.2 25.7 18.0 100 124.2 171.6 102.8 74.2 52.0 29.5 20.7

Develo	ped Site	Discharge	(Q = CIA)	l/s

Return		Durat	Duration (minutes)				
Period	10	20	30	60	120	360	720
10	194.0	139.4	115.2	82.9	57.8	32.5	22.7
50	269.8	194.5	160.9	116.3	81.4	46.3	32.3
100	308.8	223.5	185.1	133.6	93.6	53.1	37.3

Orifice Plate sizing

 $Q = cA (2gH)^{0.5}$

0.609

H = "

Orifice Plate diameter =

3.1

100 mm

0.008

Q @ max head =

37.3 l/s

(less than peak non developed flow)

Area =

Storage Required - m³- (inflow less outflow x storm duration

Return		Durat	ion (mir				
Period	10	20	30	60	120	360	720
10	94.0	122.5	140.2	164	147	-103	-632.2
50	139.5	188.7	222.5	284	317	194	-214.8
100	162.9	223.5	266.0	346.6	405.7	342	1,9

USE 4 x PROMAX WATER TANK (50,000 LITRES) PLUMBED INTO SW DOWNPIPES (FROM HIGH LEVEL) WITH 100mm DIAMETER OUTLET TO SW DRAIN TANK TO BE NOMINALLY EMPTY AND TO FILL DURING RAINFALL EVENTS

Job Title

SEEKA Ltd

Site Address

153 Waipapa Road

City Job No.

Kerikeri 638080

Page No of Pages Date Oct 18 By ADP



TGA REV 2 - 07/07/2010

Extreme rainfall assessment with climate change

0.633 66.6 47.7 39.4 28.2 19.5

138.0 100.2 82.6

consequential, arising out the use of HIRDSV3. ©2018 NIWA

0.020 145.2 104.7 86.6

10m 20m 30m 60m 2h 6h

0.500 71.4 51.6 42.2 30.2 20.9 11.7 8.1

60.00 0.017 150.0 108.6 89.8 64.9 45.5 25.8 18.1 12.7

80.00 0.012 159.0 114.9 95.0 68.8 48.2 27.4 19.2 13.4 7.9

100.00 0.010 166.2 120.3 99.6 71.9 50.4 28.6 20.1 14.0 8.3

methods. Nevertheless, NIWA does not accept any fiability, whether direct, indirect or

0.200 90.0 64.5 53.2 38.2 26.5 14.9 10.4 7.2

59.8

62.6

In preparing this table, all reasonable skill and care was exercised using best available data &

Projected temperature change; 2.1° C Rainfall intensities (mm/h)

10.00 0.100 104.4 75.0

20.00 0.050 120.6 87.0

0.025

0.033 130.2 94.2

ARI (v) aep

2.00

5.00

30.00

40.00

50.00

Stormwater Catchment Data

Existing Site Area =

7432 m²

Existing runoff coeff

0.5

Rainfall Intensities mm/hr HIRDS

		Interistics Thirtie Thirtie								
Return		Durat	Duration (minutes)							
Period	10	20	30	60	120	360	720			
10	104.4	75.0	62.0	44.6	31.1	17.5	12.2			
50	145.2	104.7	86.6	62.6	43.8	24.9	17.4			
100	166.2	120.3	99.6	71.9	50.4	28.6	20.1			

Revised runoff coeff Runoff coeff Total **Building Coverage** 6632 0.9 5969 Canopy 800 720 0.9 Parking roadway 0.45 0 0 wastewater 0.3 Balance 0 0.3 0 6689 Average runoff coeff = 0.9

Duration

62.0 44.6 31.1 17.5 12.2 8.5

78.0 56.4 39.5 22.5 15.7

41.9

43.8 24.9

71.6 51.7 36.1 20.4 14.3 10.0

23.8

12h 24h

17.4 12.2 7.2

10.8 7.5

72h

2.4

3.1

4.7 6.5

5.3

5.5

5.8

6.1

5.0 3.7

5.9 4.3

11.0

Existing Site Discharge (Q = CIA)

Return		Dura	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	107.8	77.4	64.0	46.0	32.1	18.1	12.6
50	149.9	108.1	89.4	64.6	45.2	25.7	18.0
100	171.6	124.2	102.8	74.2	52.0	29.5	20.7

Developed Site Discharge (Q = CIA) l/s

Return		Duration (minutes)					
Period	10	20	30	60	120	360	720
10	194.0	139.4	115.2	82.9	57.8	32.5	22.7
50	269.8	194.5	160.9	116.3	81.4	46.3	32.3
100	308.8	223.5	185.1	133.6	93.6	53.1	37.3

Orifice Plate sizing

 $Q = cA (2gH)^{A_0.5}$

0.609

Orifice Plate diameter =

150 mm

Area =

0.018

Q @ max head =

83.93 l/s

(less than peak non developed flow)

Storage Required - m3- (inflow less outflow x storm duration

Return		Durat	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	66.0	66.5	56.3	-4	-188	-1111	-2646.6
50	111.5	132.7	138.6	117	-18	-814	-2229.2
100	134.9	167.5	182.0	178.8	69.9	-665	-2012.5

USE 4 x PROMAX WATER TANK (50,000 LITRES) PLUMBED INTO SW DOWNPIPES (FROM HIGH LEVEL) WITH 100mm DIAMETER OUTLET TO SW DRAIN TANK TO BE NOMINALLY EMPTY AND TO FILL DURING RAINFALL EVENTS

Seeka Ltd Client:

Contract Name: Project Name:

153 Waipara Road Seeka Ltd - 153 Waipara Road, Kerikeri

Job No.:

638080

PRE DEVELOPMENT

New System: Area A

Event Intensity I [mm/h] 10yr - 10min 104.40 primary pipe system

10min

nlet Tag		Area AC			R.	n-off co	Run-off coefficient C		Run	Run-off Qci [m3/s]	[s]	[s/I]
'exist.'	Š.	[m2]	[ha]	Coef.	AH [m]	AL [m]	slope [%]	slope [%] Slope cor.	per Area	2nd Flow	total	
Area 1	-	15696	1.57	0.65	0.8	107.1	0.47	-0.05	0.273		0.273	273.110
Area 2	2	9620	96.0	0.85	9/0	1 (0)	0.47	-0.05	0.223		0.223	223.184
Area 3	3	5987	09.0	0.55	9.8	107.1	0.47	-0.05	0.087		0.087	86.812
Area 4	4	12070	1.21	0.20	9.0	107.1	0.47	-0.05	0.053		0.053	52,505
Area 5	2	23280	2.33	0.20	0/2	107.T	0.47	-0.05	0.101		0.101	101.268

736.878

Event Intensity I [mm/h] 100yr - 10mi 166.20 primary pipe system

Inlet Tag		Area AC			쟢	oo ijo-ur	Run-off coefficient C		Run-	Run-off Qci [m3/s]	[8]	[s/I]
'exist.'	No.	[m2]	[ha]	Coef.	AH (m)	AL INS	slope [%]	Slope cor.	per Area	2nd Flow	total	
Area 1	-	15696	1.57	0.65	0.5	107.1	0.47	-0.05	0.435		0.435	434.779
Area 2	2	9620	96.0	0.85	9/0	1.01	0.47	-0.05	0.355		0.355	355.299
Area 3	3	2987	09:0	0.55	0.6	11 201	0.47	-0.05	0.138		0.138	138.200
Area 4	4	12070	1.21	0.20	5.0	107 Y	0.47	-0.05	0.084		0.084	83.585
Area 5	2	23280	2.33	0.20	9/0	1 201	0.47	-0.05	0.161		0.161	161.214

1173.077

Client:

Seeka Ltd Contract Name: Project Name:

153 Waipara Road Seeka Ltd - 153 Waipara Road, Kerikeri

Job No.:

638080

POST DEVELOPMENT

New System: Area A

Event Intensity I [mm/h] 10yr - 10min 104.40 primary pipe system

10yr - 10min

									1	0		
Inlet Tag		Area AC			R	in-off co	Run-off coefficient C		Run-	Run-off Qci [m3/s]	[s]	[s/I]
'exist.'	ģ	[m2]	[ha]	Coef.	AH (m)	AL FRE	[%] adols	Slope cor.	per Area	2nd Flow	total	
Area 1	-	14645	1.46	0.65	9.0	107.1	0.47	-0.05	0.255		0.255	254 823
Area 2	2	9620	0.96	0.85	0.5	1.07.1	0.47	-0.05	0.223		0.223	223.184
Area 3	3	2030	0.20	0.55	9.0	1.07.1	0.47	-0.05	0.029		0.029	29.435
Area 4	4	10500	1.05	0.20	9.0	107.1	0.47	-0.05	0.046		0.046	45.675
Area 5	S.	22277	2.23	0.20	0.0	1.07.1	0.47	-0.05	0.097		0.097	96.905
Area 6	9	7432	0.74	0.95	0.0	107 1	0.47	-0.05	0.194		0.194	193.975

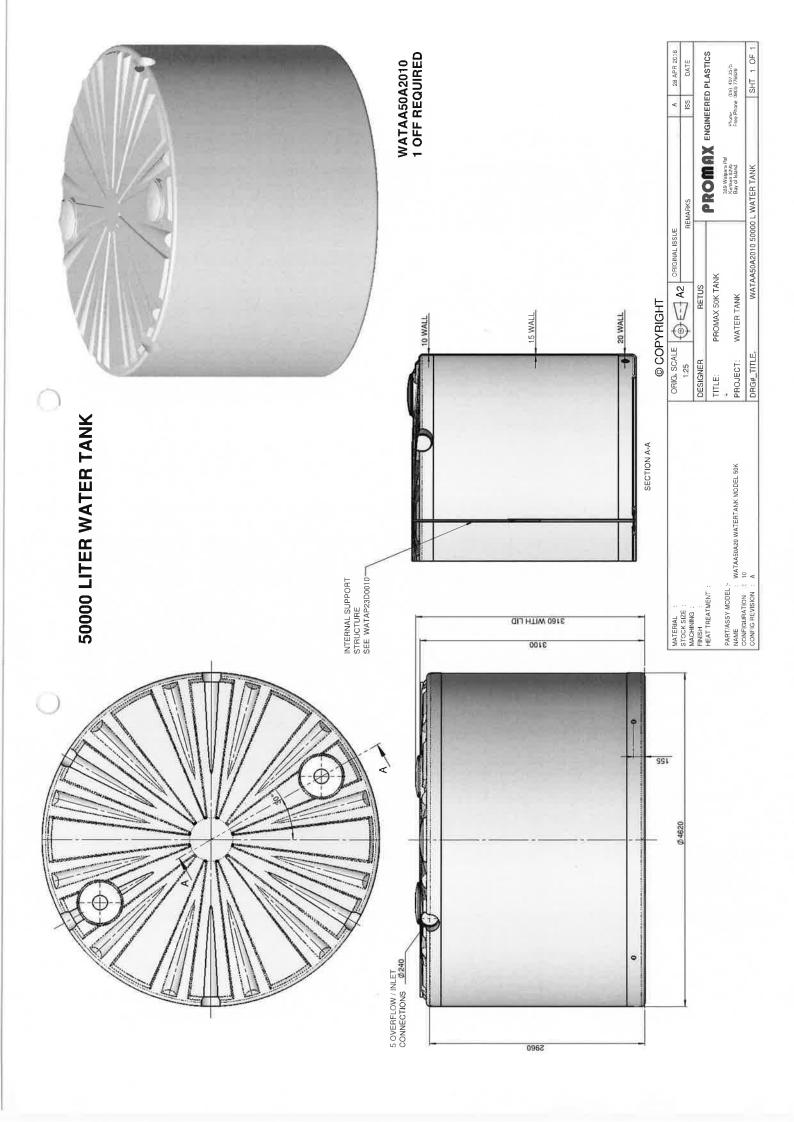
843.997

Event Intensity I [mm/h] 100yr - 10mi 166.20 primary pipe system

Inlet Tag		Area AC			æ	un-off co	Run-off coefficient C		Run-	Run-off Qci [m3/s]	[S]	[]/8]
'exist.'	Š	[m2]	[ha]	Coef	AH [m]	AL Im	[%] adols	Slope cor.	per Area	2nd Flow	total	
Area 1	1	14645	1.46	0.65	9.0	167.1	0.47	-0.05	0.406		0.406	405.667
Area 2	2	9620	96.0	0.85	9 9	1 701	0.47	-0.05	0.355		0.355	355.299
Area 3	3	2030	0.20	0.55	9.6	107.1	0.47	-0.05	0.047		0.047	46.859
Area 4	4	10500	1.05	0.20	9.0	107.1	0.47	-0.05	0.073		0.073	72.713
Area 5	S	22277	2.23	0.20	9'0	1.201	0.47	-0.05	0.154		0.154	154.268
Area 6	9	7432	0.74	0.95	9.9	107.1	0.47	-0.05	0.309		0.309	308 800

1343.605

Client SEEKA Kocikoci Project Title: Site Address: 153 WAIPARA Rd Kocikoci File Number: 638080		1, 12/10/18 AdP	Stratum CONSULTANTS Experience, Knowledge, Better Outcomes
TANK 50,000 Pec	OMAX TANI	4	
4.62	3.1	$A = TT \left(\frac{4}{2}\right)^2$ $= TT \left(\frac{4.62}{2}\right)^2$	
		= TT(2.31)	
10 Years 60min Stocm WITH 1000 ORIFICE :. 100 Year 68 min Stock	164m ³ 2.446 178 m ³ :. 2.651	÷4= 44.500l	6.764)
DIFF 208mm using 10	OO OR	FICE AT GRAND	
LEVEL AND 80\$ ORI	Fice 2.	446m LEVEL ABOU	he l
SIM.	5. Mr	AX LEVEL OF TA	JIC.



Client:

Seeka Ltd

Contract Name:

153 Waipara Road

Project Name:

Seeka Ltd - 153 Waipara Road, Kerikeri

Job No.:

638080

EXIST ROOF DEVELOPMENT POST DEVELOPMENT

New System: Area A

Event

Existing SW To North or Davacament

Intensity I [mm/h]

10yr - 10min 104.40 primary pipe system

10yr - 10min

Inlet Tag		Area AC	;		Rı	ın-off co	efficient C		Run-	off Qci [m3/	/s]	[l/s]
'exist.'	No.	[m2]	[ha]	Coef.	ΔH [m]	$\Delta L[m]$	slope [%]	Slope cor.	per Area	2nd Flow	total	
SWMH-C6	1	875	0.09	0.90	0,5	10.0	5.07	0	0.023		0.023	22.838
SWMH-C6-CP	1	306	0.03	0.85	0.5	107.1	0.47	-0.05	0.007		0.007	7.099
SWMH-C5	2	880	0.09	0.85	0.5	107.1	0.47	-0.05	0.020		0.020	20.416
SWMH-C5-CP	2	538	0.05	0.90	0.5	10.0	5.07	0	0.014		0.014	14.042
SWMH-C4	3	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.014		0.014	14.454
SWMH-C3	4	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.014		0.014	14.454
SWMH-C2-CP	4	145	0.01	0.90	0.5	10.0	5.07	0	0.004		0.004	3.785
SWMH-C2	5	365	0.04	0.85	0.5	107.1	0.47	-0.05	0.008		0.008	8.468
CP-2	6	1075	0.11	0.85	0.5	107_1	0.47	-0.05	0.025		0.025	24.940
11.84												

SWMH-A2 5 2000 0.20 0.95 5.07 0 0.055 0.055 55.100 30.469 CP-1 5 1313 0.13 0.85 0.51 -0.05 0.030 0.030

105.554

Event

Intensity I [mm/h]

Inlet Tag		Area AC			Rı	un-off co	efficient C		Run-	off Qci [m3	/s]	[l/s]
'exist.'	No.	[m2]	[ha]	Coef.	ΔH [m]	ΔL [m]	slope [%]	Slope cor.	per Area	2nd Flow	total	
SWMH-C6	1	875	0.09	0.90	0.5	107.1	0.47	-0.05	0.034		0.034	34.336
SWMH-C6-CP	1	306	0.03	0.85	0.5	107.1	0.47	-0.05	0.011		0.011	11.302
SWMH-C5	2	880	0.09	0.85	0.5	107.1	0.47	-0.05	0.033		0.033	32.501
SWMH-C5-CP	2	538	0.05	0.90	0.5	107.1	0.47	-0.05	0.021		0.021	21.112
SWMH-C4	3	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.023		0.023	23.009
SWMH-C3	3	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.023		0.023	23.009
SWMH-C2-CP	3	145	0.01	0.90	0.5	107-1	0.47	-0.05	0.006		0.006	5.690
SWMH-C2	4	365	0.04	0.45	0.5	107.1	0.47	-0.05	0.007		0.007	6.740
CP-2	5	1075	0.11	0.45	0.5	107.1	0.47	-0.05	0.020		0.020	19.852
SWMH-A2	5	2000	0.20	0.95	0.5	107.1	0.47	-0.05	0.083		0.083	83.100
CP-1	5	1313	0.13	0.45	0.5	107.1	0.47	-0.05	0.024		0.024	24.252

Eximina

Mar

Goszing

Non

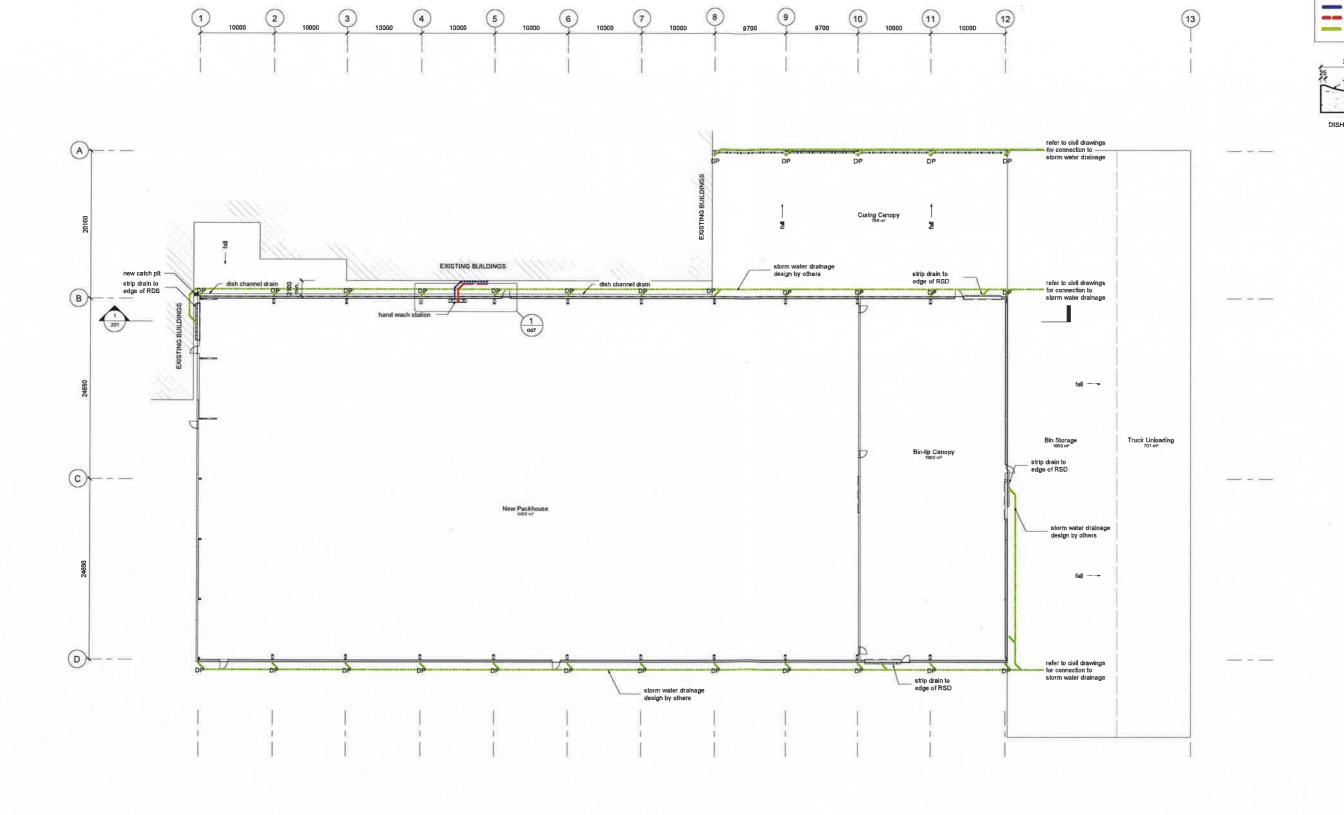
Div. ID	ND Ø	OD Ø	ID Ø	t		Rough- ness			UpStre	am			DownSt	tream		Grade					Pipe 0	Capacity		Sys	tem Capa	acity
Pipe ID	[mm]	[mm]	[mm]	[mm]	Material	Coeff. n [-]	Length	Tag	Lid Level [m]	Invert [m]	Cover [m]	Tag	Lid Level [m]	Invert [m]	Cover [m]	[%]	Q _{INLET} [l/s]	Q _{INLET} [m ³ /s]	Q _{Sum} [m ³ /s]	A [m²]	R [m]	Q _{Pi} [m ³ /s]	Q _{OverFlow} [m ³ /s]	Q _{PI} [m ³ /s]	Pipefill [%]	v _{100%} [m/s]
153 Waipara Road 10min / 10 Year New Pipeline	Danilla	r lating attach	es for Rec						1																	

Chismus

	Line C		3010/11-11			14102111-1																				
3N [SWMH C6-C5	300	367	302	33	RCRRJ	0.015	31.63	SWMH-C6	63.72	63.09	0.296	SWMH-C5	63.65	62.90	0.416	0.60	29.94	0.0299	0.030	0.072	0.076	0.0661	0.066	45	0.92
	SWMH C5-C4	375	444	380	32	RCRRJ	0.015	30.21	SWMH-C5	63.65	62.88	0,358	SWMH-C4	63.61	62.72	0.478	0.53	34.46	0.0345	0.064	0.113	0.095	0.1146	0.115	56	1.01
	SWMH C4-C3	375	444	380	32	RCRRJ	0.015	28.57	SWMH-C4	63.61	62.70	0.498	SWMH-C3	63.50	62.54	0.548	0.56	14.45	0.0145	0.079	0.113	0.095	0.1178	0.118	67	1.04
	SWMH C3-C2	375	444	380	32	RCRRJ	0.015	38.18	SWMH-C3	63.50	62.54	0.548	SWMH-C2	62.89	62.20	0,278	0.89	18.24	0.0182	0.097	0.113	0.095	0.1485	0.149	65	1.31
[SWMH C2-A1	375	444	380	32	RCRRJ	0.015	50.08	SWMH-C2	62.89	62.18	0.298	SWOUT-C1	62.89	61.25	1,228	1.86	24.94	0.0249	0.122	0.113	0.095	0.2145	0.215	57	1.89
	Line A																									
] 4	SWMH A2-A1	300	367	302	33	RCRRJ	0.003	30.6	SWMH-A2	63.49	61.36	1.796	SWMH-A1	63.23	61.21	1.686	0.49	85.57	0.0856	0.086	0.072	0.076	0.2986	0.299	29	4.17
۲Г	SWMH A1-OUTLET	375	444	380	32	RCRR.I	0.003	19 39	SWMH-A1	63 23	61 18	1.638	SW-OUTLET	62 09	61.08	n 598	0.52	146 97	0.1470	0.355	0.113	0.095	0.5652	0.565	63	4 98

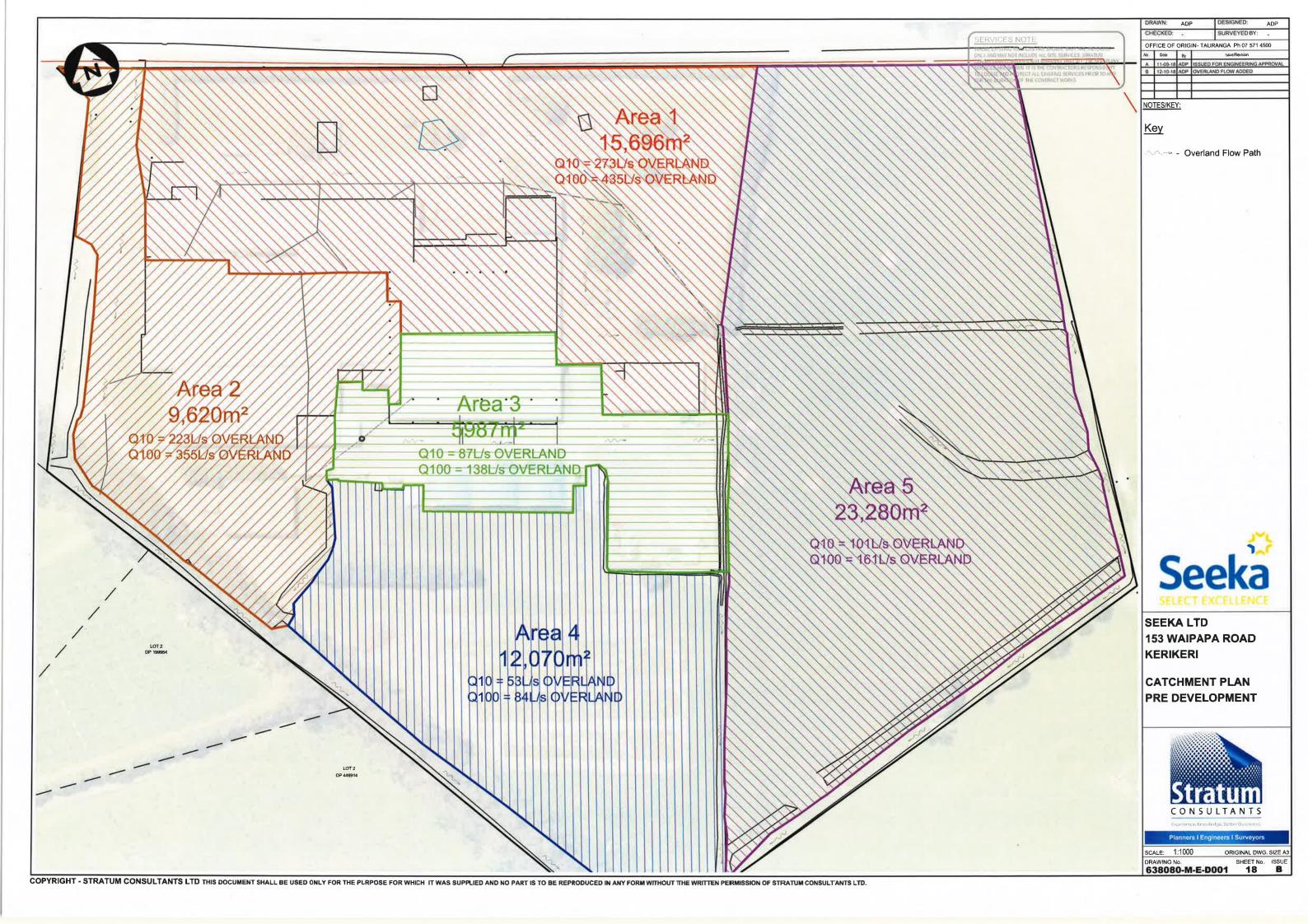
153 Waipara Road 10min / 100 Year

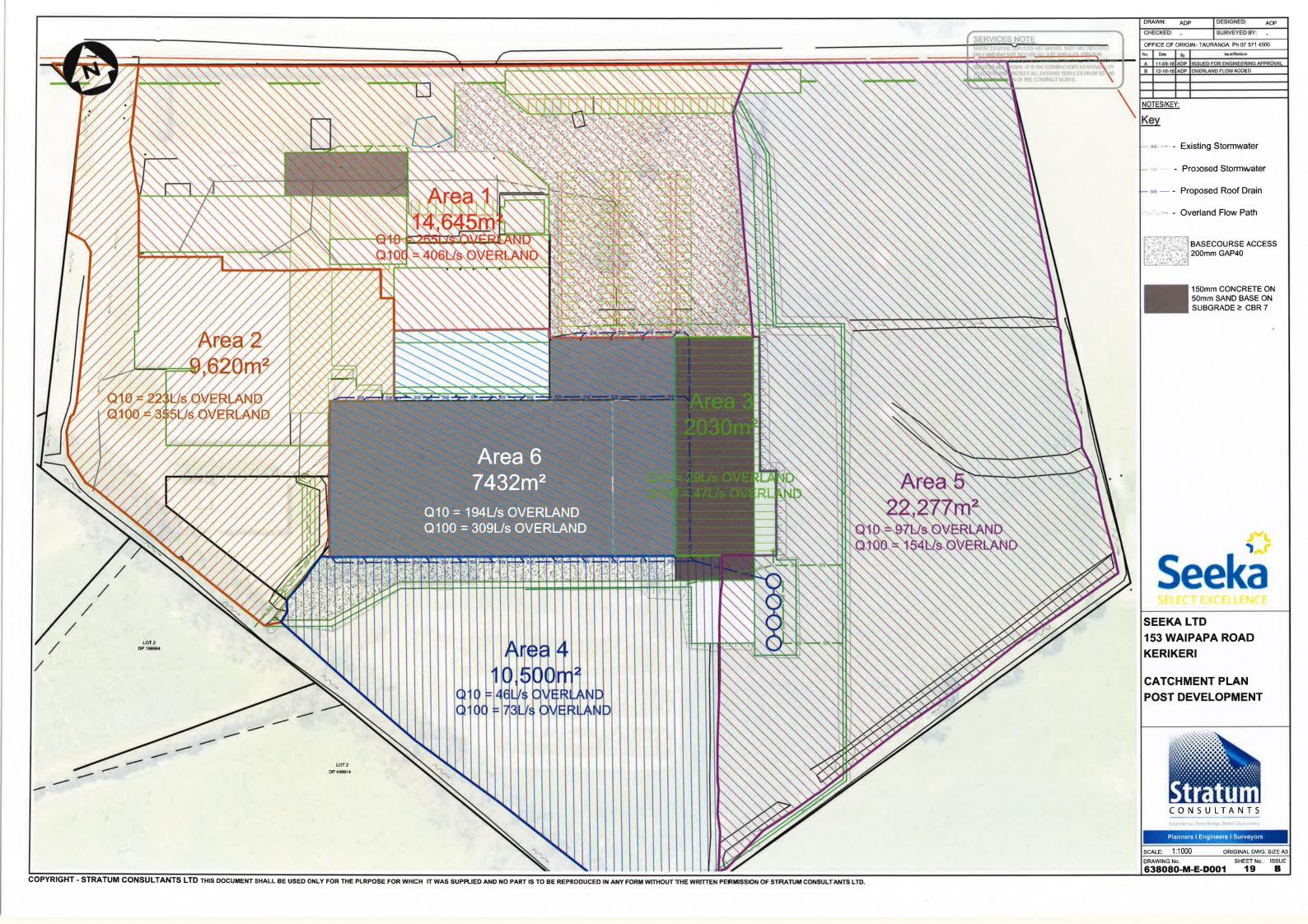
	New Pipeline	Required	pipesize	es for Req	uired cate	chpits																					
3.72	Line C																										
N.	SWMH C6-C5	300	367	302	33	RCRRJ	0.015	31.63	SWMH-C6	63.72	63.09	0.296	SWMH-C5	63.65	62.90	0.416	0.60	45.64	0.0456	0.046	0.072	0.076	0.0661		0.066	69	0.92
13	SWMH C5-C4	375	444	380	32	RCRRJ	0.015	30.21	SWMH-C5	63.65	62.88	0.358	SWMH-C4	63.61	62.72	0.478	0.53	53.61	0.0536	0.099	0.113	0,095	0.1146		0.115	87	1.01
8	SWMH C4-C3	375	444	380	32	RCRRJ	0.015	28.57	SWMH-C4	63.61	62.70	0.498	SWMH-C3	63.50	62.54	0.548	0.56	23.01	0.0230	0.122	0.113	0.095	0.1178	0.0045	0.118	104	1.04
K [SWMH C3-C2	375	444	380	32	RCRRJ	0.015	38.18	SWMH-C3	63.50	62.54	0.548	SWMH-C2	62.89	62.20	0.278	0.89	28.70	0.0287	0.151	0.113	0.095	0.1485	0.0024	0.149	102	1.31
,	SWMH C2-A1	375	444	380	32	RCRRJ	0.015	50.08	SWMH-C2	62.89	62.18	0.298	SWOUT-C1	62.89	61.25	1.228	1.86	33.41	0.0334	0.184	0.113	0.095	0.2145		0.215	86	1.89
\	Line A																										
9 [SWMH A2-A1	300	367	302	33	RCRRJ	0.003	30.6	SWMH-A2	63.49	61.36	1.796	SWMH-A1	63.23	61.21	1.686	0.49	107.35	0.1074	0.107	0.072	0.076	0.2986		0.299	36	4.17
• [SWMH A1-OUTLET	375	444	380	32	RCRRJ	0.003	19.39	SWMH-A1	63.23	61.18	1.638	SW-OUTLET	62.09	61.08	0.598	0.52	204.22	0.2042	0.496	0.113	0.095	0.5652		0.565	88	4.98

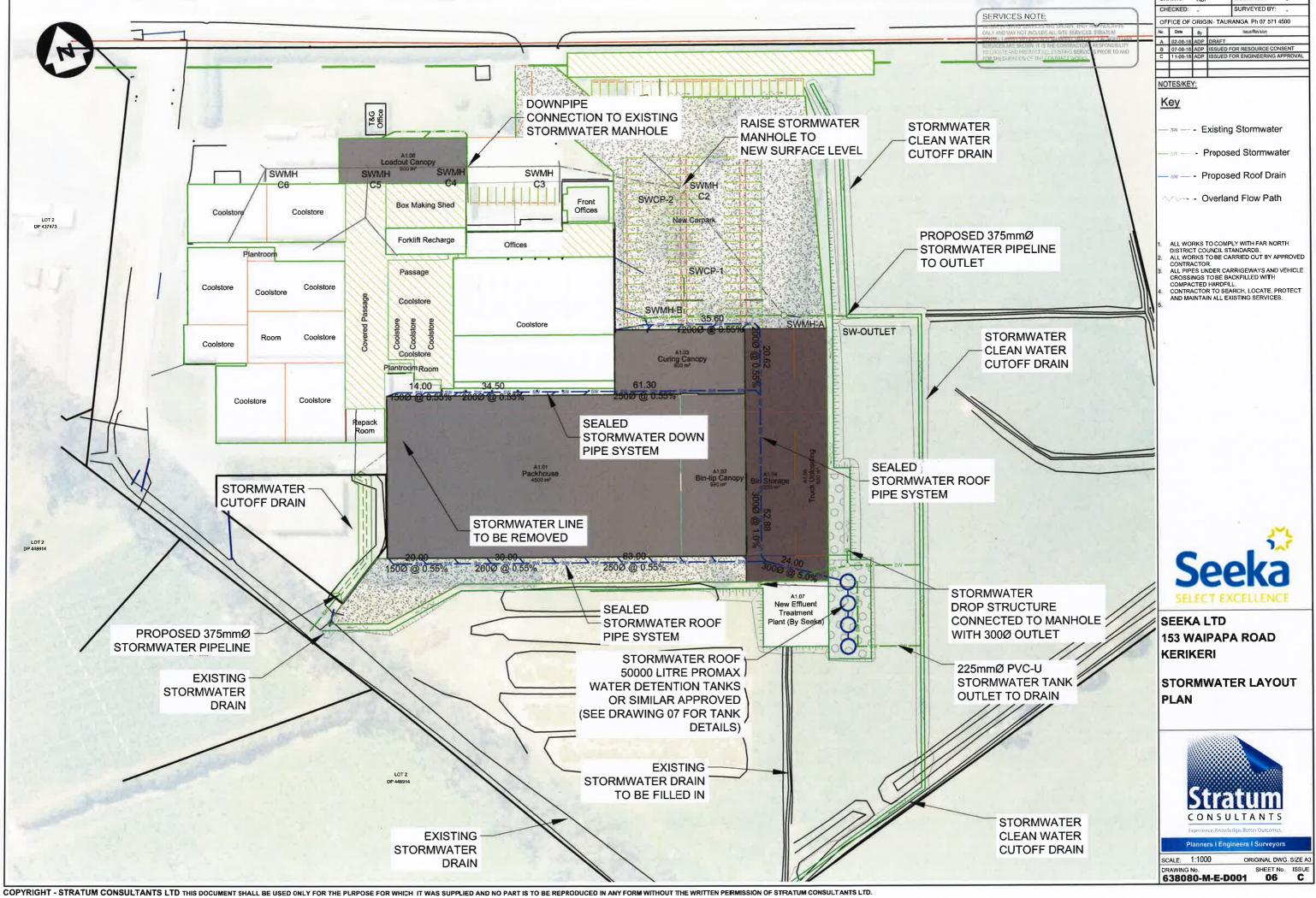


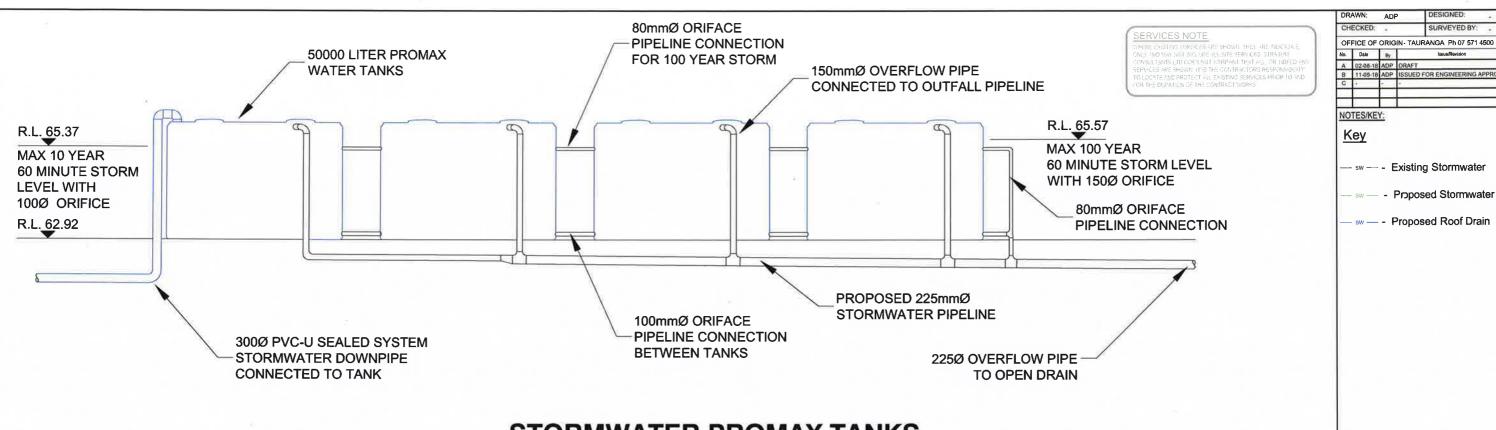
Amenities and Drainage Plan Schematic - Zone 1





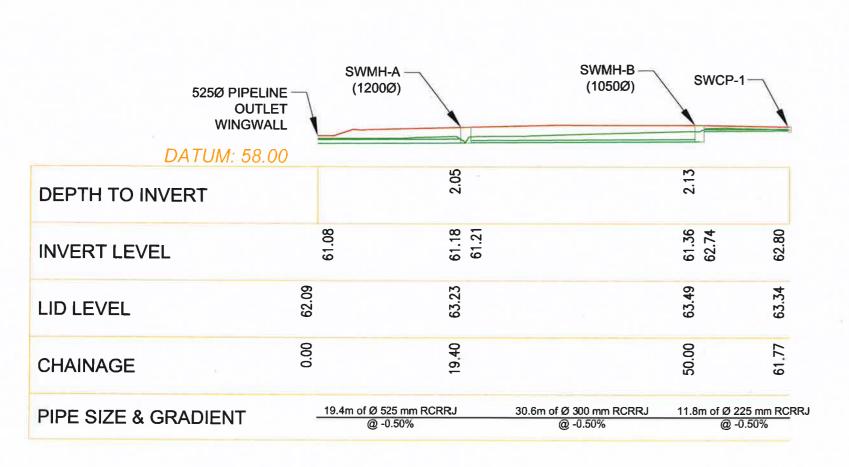


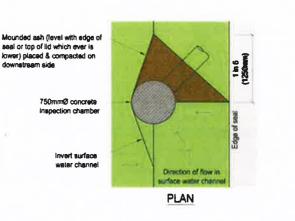


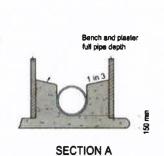


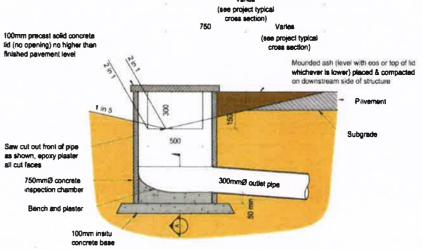
STORMWATER PROMAX TANKS

SCALE 1:100 (HORIZ & VERT)









STORMWATER LONGSECTION

SCALE 1:500 (HORIZ & VERT)

STORMWATER DROP STRUCTURE



sw — - Existing Stormwater

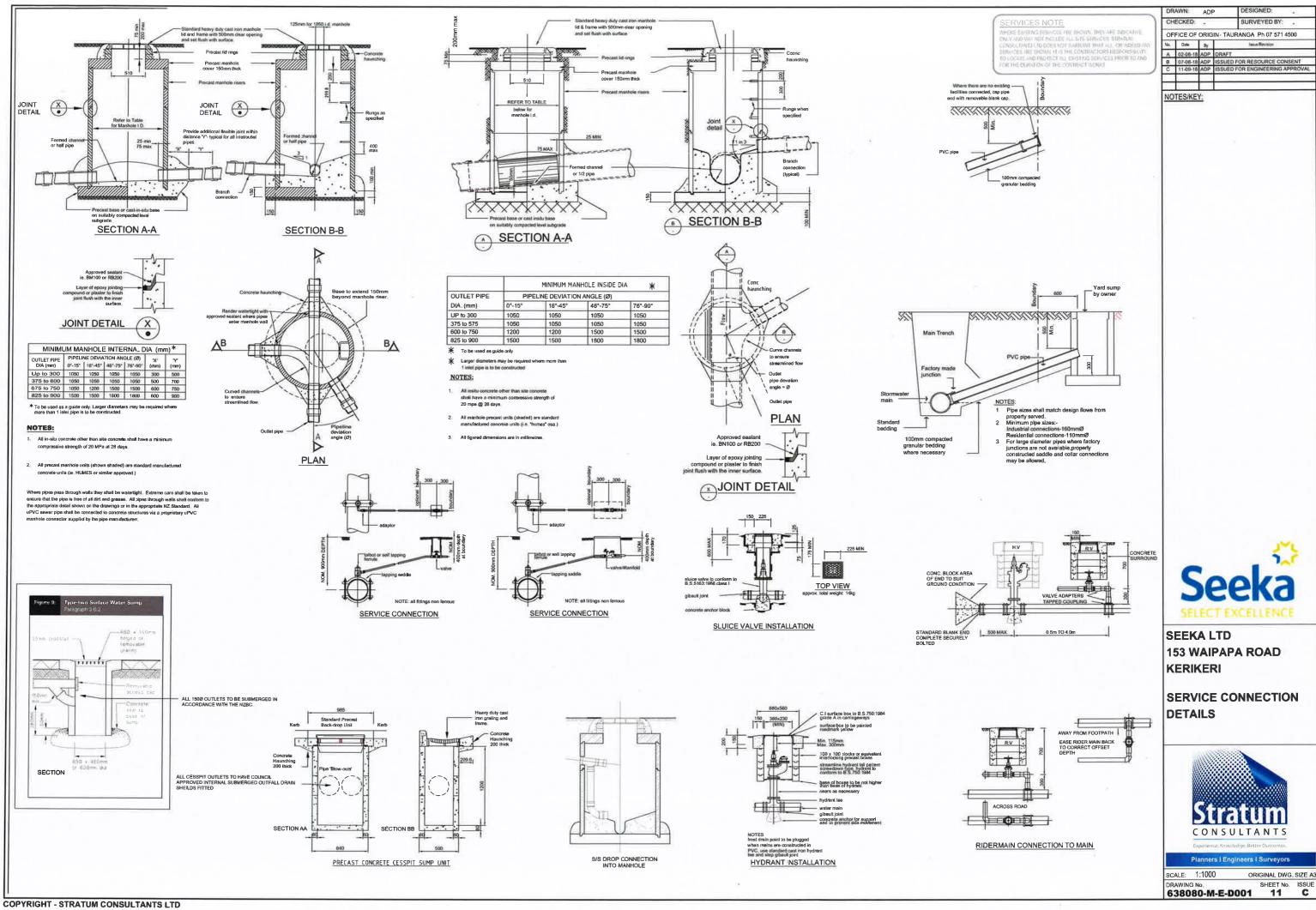
Proposed Stormwater

- Proposed Roof Drain

SEEKA LTD 153 WAIPAPA ROAD KERIKERI

STORMWATER DETAILS





SURVEYED BY

ORIGINAL DWG. SIZE AS







Building Code Clause(s).....B1 / B2....

PRODUCER STATEMENT - PS1 - DESIGN

(Guidance notes on the use of this form are printed on page 2)

ISSUED BY:	STRATUM CONSULTANTS LTD(Design Firm)
TO:	(Owner/Developer)
TO BE SUPPLIED TO:	FAR NORTH DISTRICT COUNCIL
IN RESPECT OF:	STORMWATER DESIGN WORKS(Description of Building Work)
	153 WAIPAPA ROAD, KERIKERI
services in respect of the requirer	C
Clause(s)E1	in the attachment to this statement), of the proposed building work.
The design carried out by us has	peen prepared in accordance with:
	by the Ministry of Business, Innovation & EmploymentE1 / VM 1or (verification method / acceptable solution)
☐ Alternative solution as per the	attached schedule
The proposed building work cover	ed by this producer statement is described on the drawings titled
together with the specification, an On behalf of the Design Firm, a (i) Site verification of the following	·
other documents provided or liste and that b), the persons who have following level of construction more	s that a) the building, if constructed in accordance with the drawings, specifications, and d in the attached schedule, will comply with the relevant provisions of the Building Code undertaken the design have the necessary competency to do so. I also recommend the hitoring/observation: [CM5 (Engineering Categories) or] as per agreement with owner/developer (Architectural)
I,STEPHEN BOS(Name of Design Professional)	am: ⊠CPEng#
	□Reg Arch#
	NZIA and hold the following qualifications:NZCE, BE, MIPENZ, CPEng ment holds a current policy of Professional Indemnity Insurance no less than \$200,000*. ICENZ:
SIGNED BYSTEPHEN I	BOS ON BEHALF OFSTRATUM CONSULTANTS LTD (Design Firm)
Firm only. The total maximum amount of	(signature)

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, IPENZ AND NZIA

Appendix E Geotechnical Assessment





12 June 2025

Seeka Ltd PO Box 47 Te Puke, 3153

Geotechnical Plan Review of Proposed Stage 1B Canopy Extension and Packaging Lean-to 153 Waipapa Road, Kerikeri

1. Introduction

Stratum Consultants Ltd (Stratum) has been engaged by Seeka Ltd to carry out a geotechnical plan review in relation to the building consent application for the proposed Stage 1B bin curing canopy extension and future packaging lean-to at Seeka Kerikeri, 153 Waipapa Road, Kerikeri, legally described as Lot 3 DP 196433.

This plan review is based on the existing information from the most relevant geotechnical assessment report (GAR) and geotechnical completion report (GCR), as referenced below.

2. Proposed Development

The following documents were reviewed as part of the geotechnical plan review:

- GAR: Geotechnical Assessment Report. Proposed Packhouse, Coolstore and Curing Canopy. 153
 Waipapa Road, Kerikeri. Report prepared by Stratum for Seeka Ltd. Dated 11 September 2018.
 Reference 638080-M-E-C005.
- GCR: Geotechnical Completion Report. Stage 1 Ground Works. 153 Waipapa Road, Kerikeri. Report prepared by Stratum for Seeka Ltd. Dated 2 May 2020. Reference 638080-M-E-C007.
- Structural building plans for resource consent prepared by BCD Group Ltd, "Seeka Stage 1B –
 Packhouse Canopy Extension" Ref: 25-0030, Dated 6 June 2025, 9 pages.
- Structural building plans for building consent prepared by BCD Group Ltd, "Seeka Stage 1B –
 Packhouse Canopy Extension" Ref: 25-0030, Dated 6 June 2025, 25 pages.

The proposed development involves constructing the Stage 1B bin curing canopy extension to the east and a packaging lean-to canopy to the south of the existing Seeka packhouse located at 153 Waipapa Road, Kerikeri. The proposed canopy extension will extend approximately 20m eastward off the existing bin tip canopy and curing canopy. The proposed packaging lean-to is to be attached to the southern end of the existing bin tip and curing canopy and extend approximately 11.5m to the south. The canopy extension and lean-to will cover approximately 1,440m² and 436m² respectively.

The foundations for the eastward canopy extension will consist of eight concrete pad footings measuring 2m by 2m and 0.5m deep. A new foundation beam will also be required which will be cut 0.6m wide and 0.5m in depth. The foundations for the packaging lean-to are expected to consist of strip footings.

No design bearing capacity for the foundations or soil parameters were given on the structural plans available to us. It is assumed that the foundations have been designed for 'good ground' using a geotechnical ultimate bearing capacity of 300kPa (100kPa allowable bearing capacity).

3. Previous Reports

The GAR found that the ground conditions typically allowed the use of shallow foundations utilising a bearing capacity of 300kPa (100kPa allowable bearing capacity) after removal of any uncontrolled filling. Earthworks were completed and documented in the GCR which included the area of the proposed canopy extension. The platform in this area has been prepared by undercutting any weak natural silts or uncontrolled filling and backfilling with hardfill and a layer of Duragrid 30/30 geogrid. At completion of the earthworks the building platform was certified as suitable for foundations utilising a bearing capacity of 300kPa (100kPa allowable bearing capacity).

Earthworks have also been completed within the area of the packaging lean-to to the south and therefore the recommendations in the GCR are relevant for the lean-to also. It is understood that the proposed lean-to extends up to 11.5m south of the existing structure. The attached as-built plans indicate that the previous site preparation earthworks extended across the majority of the proposed lean-to except for the south-eastern corner. Site records indicate that geo-grid has only been placed in the western part of the proposed lean-to.

If the lean-to extends outside the previously earthworked area further earthworks will have to be completed to match. We expect geogrid may be required to be placed across the eastern portion of the lean-to to create consistency across all foundations. For any part of the building platform that has not yet been subject to ground improvements, undercuts would be required with geocloth and geogrid to match the existing works completed as detailed in the GCR.

Any earthworks required should follow the recommendations in the GAR.

The subgrade of the building platform is to be inspected by a suitably qualified engineer to verify the ground conditions, prior to constructing the foundations or backfilling.

4. Geotechnical Plan Review

Based on the GAR and GCR discussed above in Section 3 we expect the proposed Stage 1B canopy extension will found within a previously prepared earthworked platform which has been certified within the GCR. The prepared fill platforms located under both the Stage 1B bin curing canopy extension and packaging lean-to are suitable to provide a geotechnical ultimate bearing capacity of 300kPa (100kPa allowable bearing capacity). As the canopy extension to the east is being

constructed within an earthworked platform which has already been certified no construction monitoring is required for this area.

Based on our understanding of the site the packaging lean-to structure will generally found within a prepared platform. For any area outside of the prepared platform it is expected that any earthworks will include a layer of geocloth and geogrid as per the works completed as part of the prepared platform in the GCR. This will prevent differential settlements across the building.

Geotechnical testing and construction monitoring should be undertaken during excavation of the foundations for the packaging lean-to to the south to verify the extent of the previous ground improvements and ensure the site conditions are suitable for the proposed foundations. Any uncontrolled fill or other unsuitable material is to be removed and replaced with engineered fill. Foundations for the proposed Stage 1B bin curing canopy and packaging lean-to should not extend past 0.5m depth to align with the GAR requirements.

The building platform subgrade for the proposed Stage 1B canopy extension and packaging leanto is expected have a geotechnical ultimate bearing capacity of at least 300kPa (100kPa allowable bearing capacity).

Stormwater flows for both the Stage 1B canopy extension and packaging lean-to are expected to be directed into a stormwater detention tank system, which is considered geotechnically suitable.

5. Conclusions

The site conditions in the area of the proposed Stage 1B canopy extension and future packaging lean-to are expected to be consistent with the referenced GAR and GCR. The recommendations given in the existing reports are considered to be applicable for the canopy and lean-to extensions.

Overall, the provided design for the Stage 1B canopy extension and future packaging lean-to is considered to be suitable to address the geotechnical restrictions of the site provided the recommendations in the GCR and GAR are adhered to. Geotechnical testing and inspections should be completed to confirm the ground conditions within any areas which have not been previously earthworked and certified in the GCR.

6. Limitations

This report has been prepared for the sole benefit of Seeka Ltd for the proposed Stage 1B canopy extension and future packaging lean-to at 153 Waipapa Road, Kerikeri. It is not to be relied upon or used out of context by any other person without reference to Stratum Consultants Ltd. The reliance by other parties on the information or opinions contained in the report shall, without prior review and agreement in writing, be at such party's sole risk.

Yours faithfully

Stratum Consultants Ltd

Prepared by:

Thomas Stemmer

Engineering Geologist

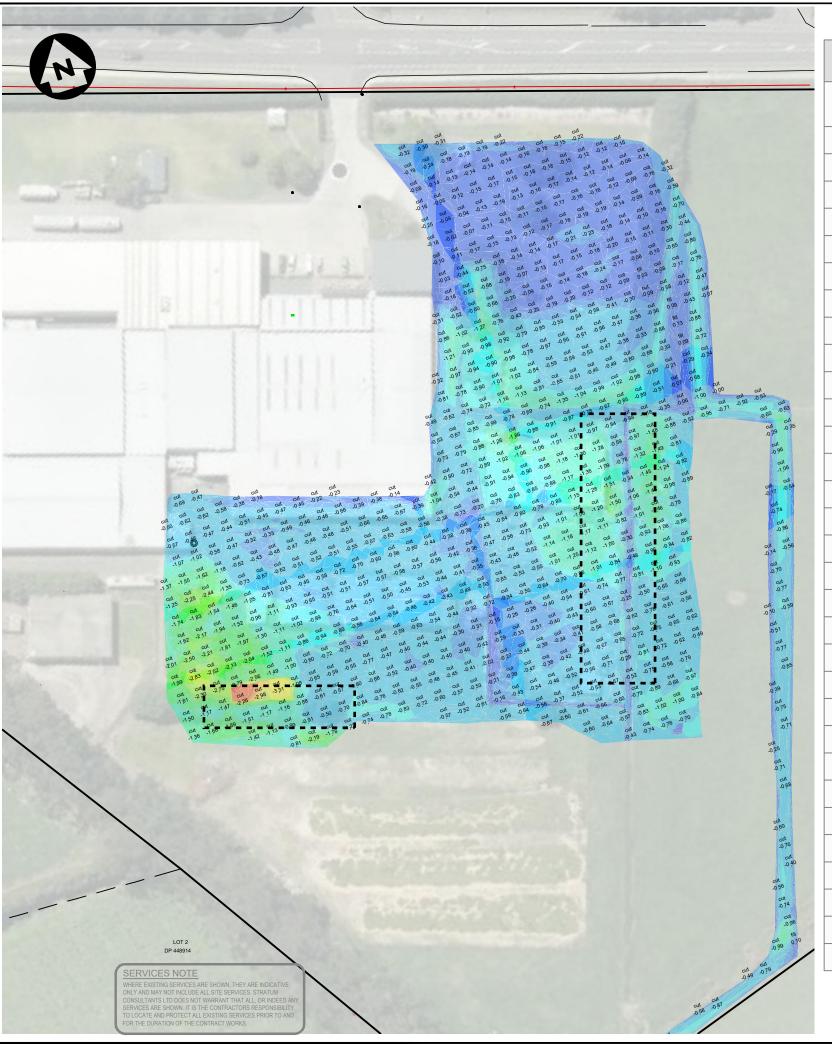
encl. Selected plans.

Reviewed and Approved by:

Elles Pearse-Danker

Elles PD

CPEng Geotechnical Engineer



		Cut Fill Bai	nding Details		
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)	2D Area (m²)	Volume (m³)
1		-5.000	-4.800	0.0	0.0
2		-4.800	-4.600	0.0	0.0
3		-4.600	-4.400	2.6	0.1
4		-4.400	-4.200	11.0	1.8
5		-4.200	-4.000	8.5	3.5
6		-4.000	-3.800	5.9	5.1
7		-3.800	-3.600	4.4	6.0
8		-3.600	-3.400	5.1	6.9
9		-3.400	-3.200	33.0	10.6
10		-3.200	-3.000	12.2	15.8
11		-3.000	-2.800	17.7	17.3
12		-2.800	-2.600	53.0	25.5
13		-2.600	-2.400	50.1	34.9
14		-2.400	-2.200	70.6	46.9
15		-2.200	-2.000	135.6	66.9
16		-2.000	-1.800	191.3	102.0
17		-1.800	-1.600	196.3	139.4
18		-1.600	-1.400	346.0	191.7
19		-1.400	-1.200	625.5	282.4
20		-1.200	-1.000	1074.7	451.2
21		-1.000	-0.800	1972.9	748.8
22		-0.800	-0.600	3334.1	1275.2
23		-0.600	-0.400	3840.9	2025.8
24		-0.400	-0.200	1946.0	2607.7
25		-0.200	0.000	2732.1	3152.4
26		0.000	0.200	147.2	10.6
27		0.200	0.400	3.6	0.8
28		0.400	0.600	1.2	0.4
29		0.600	0.800	0.9	0.2
30		0.800	1.000	0.7	0.1
31		1.000	1.200	0.0	0.0

		DR	AWN:	ADF	DESIGNED: _
		CHI	ECKED:	-	SURVEYED BY:
OFFICE OF ORIGIN - TAURANGA Ph 07 571 4500			IN - TAURANGA Ph 07 571 4500		
		No.	Date	Ву	Issue/Revision
		Α	02-0818	ADP	DRAFT
		В	07-08-18	ADP	ISSUED FOR RESOURCE CONSENT
		С	03-09-18	ADP	BUILDING UPDATE CHANGES
		D	20-05-20	ADP	FINAL UNDERCUT LEVELS

NOTES/KEY:

Cut Volume Undercut Base Surface to Natural Surface - Unsuitable Material Removed

Cut - 11,218.00m³ (SOLID VOLUME) Area - 16822.92m²

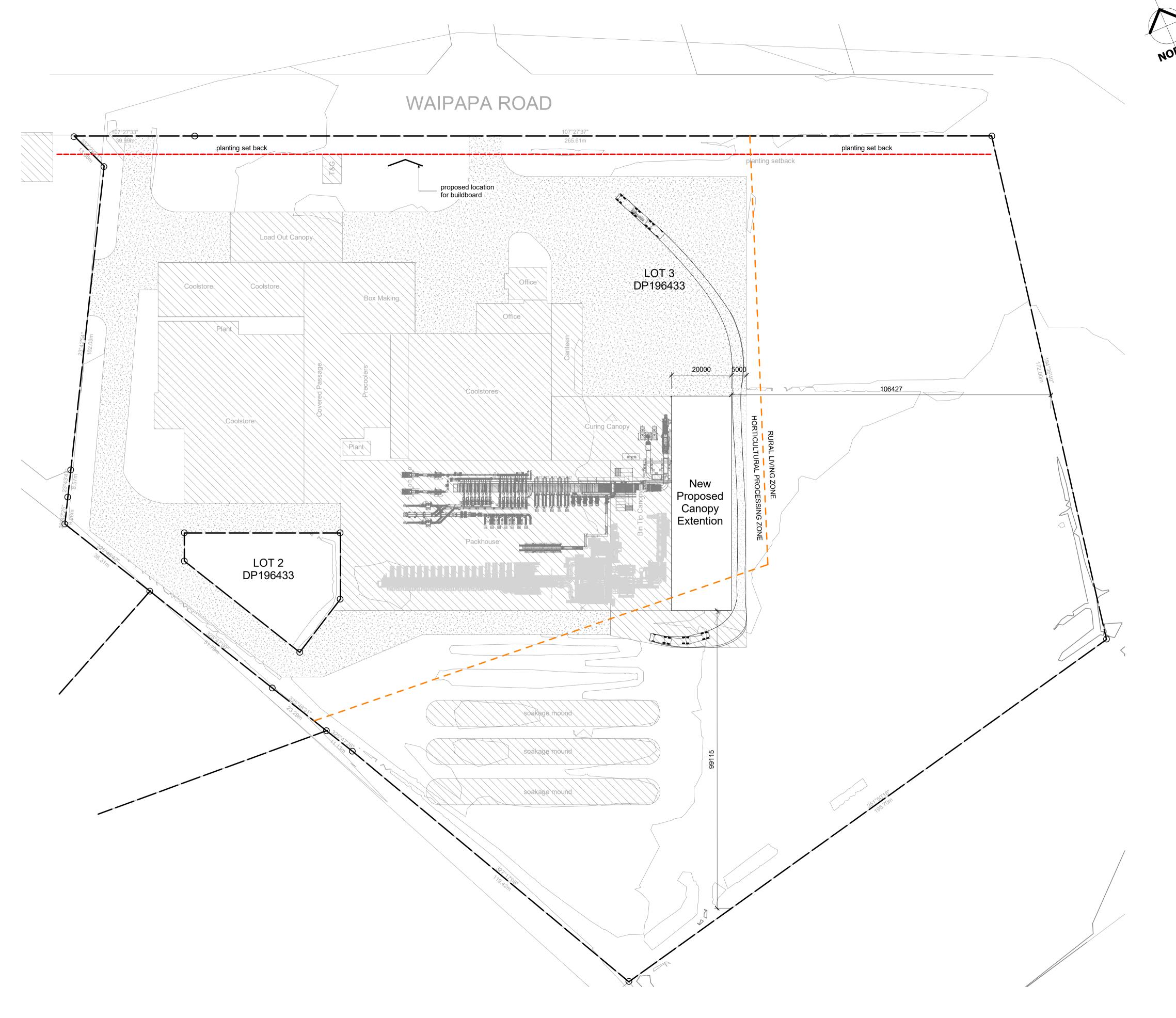


SEEKA LTD 153 WAIPAPA ROAD KERIKERI

CUT FILL PLAN 3 METERS OUTSIDE NEW **BUILDING PLATFORM**



DRAWING No. SHEET No. **638080-M-E-D001 T01**



Site Information & Requirements

Street Address: 153 Waipapa Road, Kerikeri

DP & Lot Number: DP 196433, Lot 3

Local Council: Far North District Council

Zone: Horticulural Processing / Rural Living Zone

Site Area: 68,752m²

Zone Information: EQ Zone: Zone 1 Wind Zone: H Corrosion Zone: Zone c

Notes:

- Site boundaries/ levels nominal and subject

- to survey.
 Easements not shown.
 Dimensions approximate and subject to confirmation.
 Structure and grid setout indicative only and subject to calculation.
 Stormwater detention/ soakage/ treatment/ discharge not yet checked.

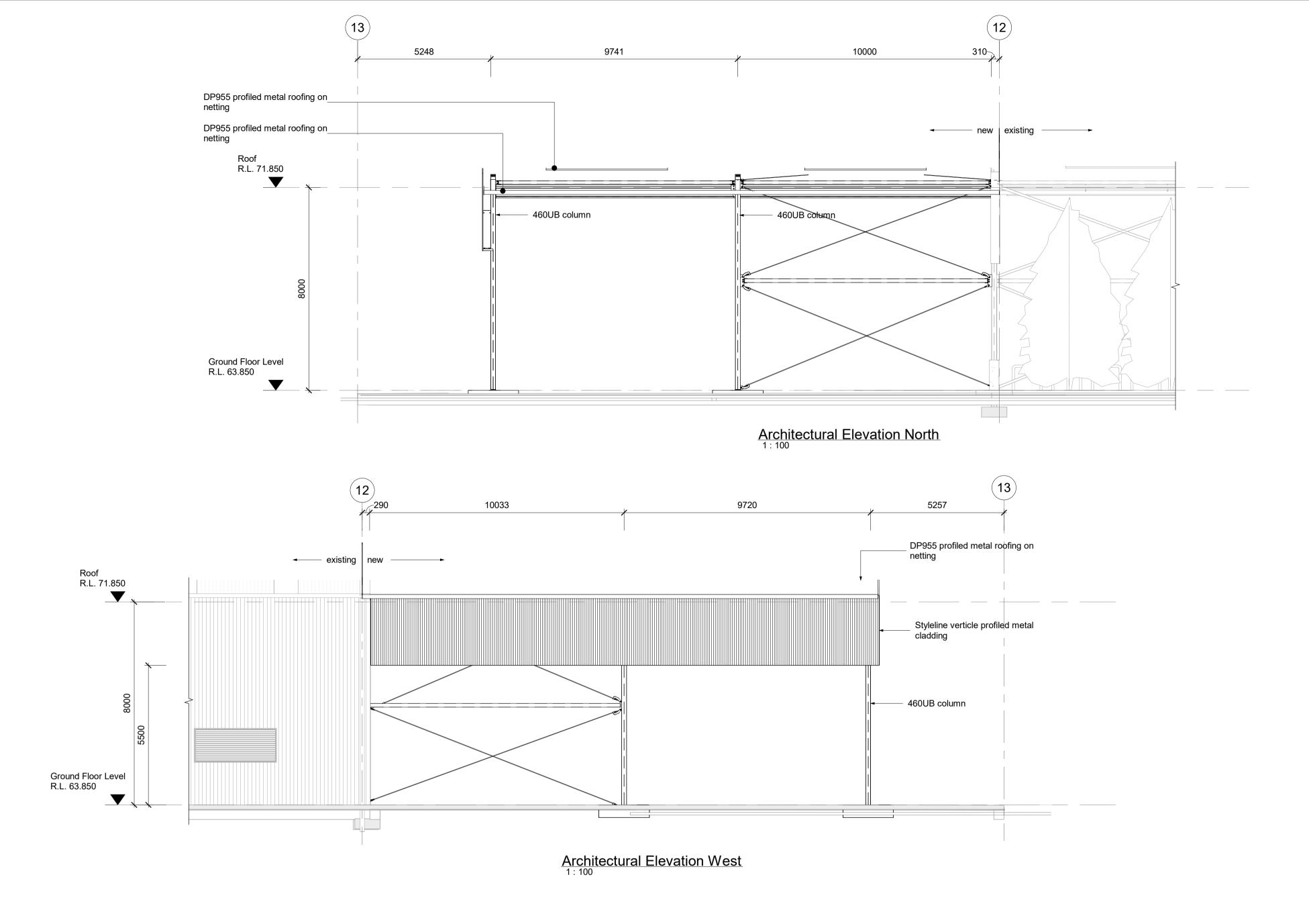
Resource Consent not expected/ expected.

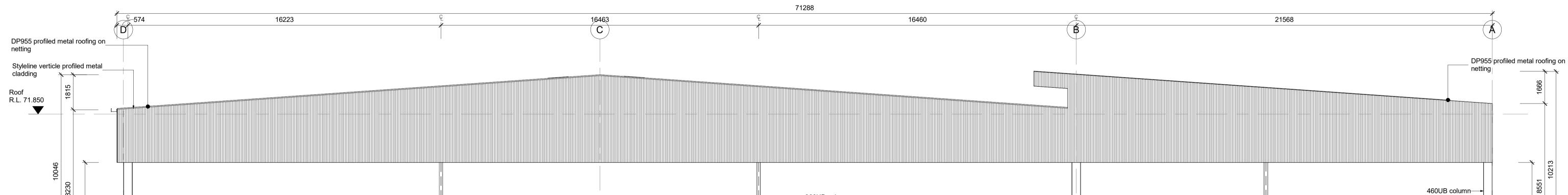
all dimensions to be verified on site before making any shop drawings or commencing any work.





PROPOSED SITE PLAN
SEEKA STAGE 1B - PACKHOUSE CANOPY EXTENSION
153 WAIPAPA ROAD, KERIKERI





360UB column

Architectural Elevation East



Ground Floor Level R.L. 63.850 UB beam



→ UB beam

form

EXTERIOR ELEVATIONS	
SEEKA STAGE 1B - PACKHOUSE CANOPY EXTENSION	
153 WAIPAPA ROAD, KERIKERI	

→ UB beam



TAURANGA

Rydal House, 29 Grey Street
PO Box 13651, Tauranga 3141
Ph: (07) 571 4500

tauranga@stratum.nz

ROTORUA

Trinity House, 1268 Haupapa Street
PO Box 878, Rotorua 3040
Ph: (07) 347 7840

rotorua@stratum.nz

TE PUKE

NZ Post Building, 81A Jellicoe Street
PO Box 301, Te Puke 3153
Ph: (07) 573 7717

tepuke@stratum.nz

ENGINEERS • PLANNERS • SURVEYORS



RECORD OF TITLE UNDER LAND TRANSFER ACT 2017 FREEHOLD

Search Copy



Identifier NA124C/509

Land Registration District North Auckland

Date Issued 09 February 2000

Prior References NA48A/1264

Estate Fee Simple

Area 6.8752 hectares more or less
Legal Description Lot 3 Deposited Plan 196433

Registered Owners

Seeka Limited

Interests

Appurtenant hereto is a water right specified in Easement Certificate 608613.4 - 2.4.1976 at 10.51 am

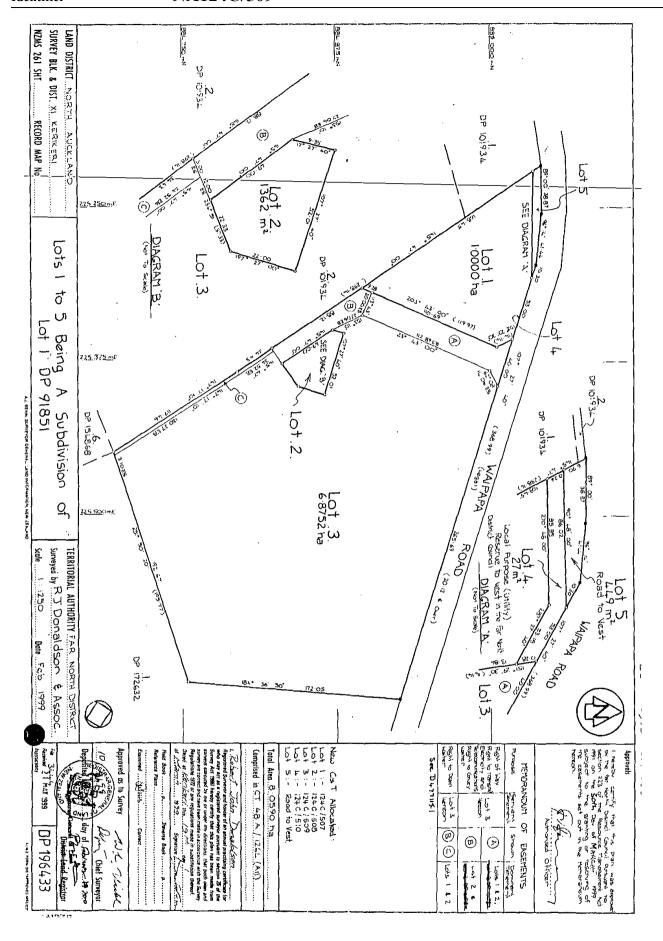
Subject to a right of way and rights to transmit electricity and telecommunications and convey water over parts marked A & B and a right to drain water over parts marked B & C on DP 196433 specified in Easement Certificate D477115.7 - 9.2.2000 at 2.25 pm

The easements specified in Easement Certificate D477115.7 are subject to Section 243 (a) Resource Management Act 1991 Subject to a right of way over part marked A DP 196433 created by Transfer 5380338.3 - 23.10.2002 at 9:00 am

11100128.2 Mortgage to Westpac New Zealand Limited - 30.4.2018 at 4:50 pm

11289501.1 Notification that a building consent issued pursuant to Section 72 Building Act 2004 identifies Inundation as a natural hazard- 20.11.2018 at 7:00 am

12285500.9 Variation of Mortgage 11100128.2 - 10.11.2021 at 2:49 pm





JOB NUMBER: 25-0030

SEEKA STAGE 1B - PACKHOUSE CANOPY EXTENSION 153 WAIPAPA ROAD, KERIKERI













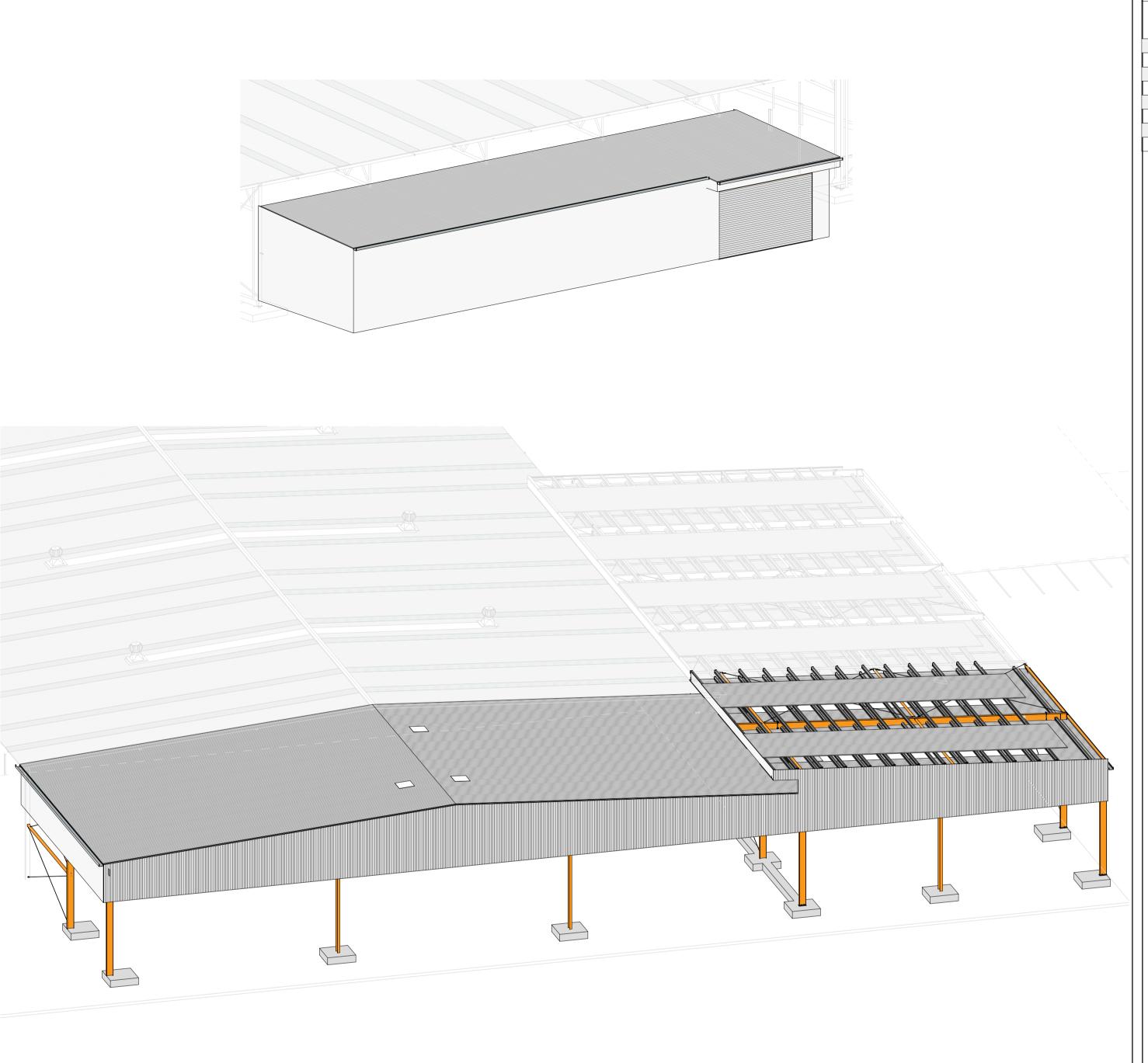












	DRAWING LIST		
SHEET NUMBER	SHEET NAME	CURRENT REVISION DATE	REVISION
000	INDEX & STANDARD NOTES	06-06-2025	4
A-100	PROPOSED SITE PLAN	06-06-2025	6
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A-150	ROOF PLAN	06-06-2025	3
A-200	EXTERIOR ELEVATIONS	06-06-2025	4
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A-205	CROSS SECTIONS	06-06-2025	4
A-206	CROSS SECTIONS	06-06-2025	3

Notes

- Drawings issued prior to the completion of Construction issue are for the purpose of enabling the client/contractor to prepare, submit and negotiate a cost competitive and compliant tender for the project only.
 The client must act in good faith and use all reasonable
- The client must act in good faith and use all reasonable endeavours to work on a regular basis with the consultant to minimise the risk of error to develop solutions that fulfil the project requirements and embrace the clients preferred construction methodologies and practices.
- 3. The building consent/tender documentation has been prepared such that a suitably competent contractor can prepare tender documentation. The documents are still subject to change as a result of structural peer review/ council RFI's and final pre-construction coordination between design disciplines and as such BCD recommend that the contractor allows suitable construction contingencies within their tender to satisfy the potential of design changes.

Standard Abbreviations

reduced level

specification

to be confirmed

sketch

square

typical

SK

spec. SQ TBC

typ.

General Abbreviations			Structural Abbreviations		
	General appr. bldg CL cnr COS Ø dim. DTF ex. FFL m max. min. misc. mm	Abbreviations approved building centre line corner confirm on site diameter dimension document transmittal form existing finish floor level metre maximum minimum miscellaneous millimetre	alt. FSBW CHS CJ conc. crs cvr D db DT EA EF EJ EW FF	alternating full strength butt weld circular hollow section control joint concrete centres cover deformed bars (grade 300E nominal bar diameter in mm drossbach tube equal angle each face expansion joint each way far face	
	No.	number	FP	full penetration	
	NTS	not to scale	FT	flat	
	NZS	New Zealand Standard	FWAR	fillet weld all round	
	OD	outside diameter	G	grade	
	R ref.	radius reference	galv. HDG	galvanised	
	iei.	reletence	HDG	hot dip galvanised	

horiz.

HR

MS

Structural Abbreviations continued

<u>Oti dotai c</u>	i 7 lbbi c viation o continuo
OF PC PFC PLY R RB	outside face precast concrete panel parallel flange channel plywood round bars (grade 300E reidbars
RC	reinforced concrete
RHS SHS	rectangle hollow section square hollow section
SOG	slab on grade
SP	splice
SS SSL	stainless steel
TFB	structural slab level tapered flange beam
TOS	top of steel
T&B	top and bottom
UA	unequal angle
UB	universal beam

universal column

welded beam

vertical

Architectural Abbreviations

base metal thickness damp proof course

damp proof membrane

BC CP IC	base course catch pit inspection chambe
IL	invert level
LL	lid level
MH	manhole
ROW	right of way
SB	sub base
SG	sub grade
SS	sanitary sewer
SW	stormwater
WM/S	water main/supply
WW	waste water
dia.	diameter
DP	down pipe
FWG	floor waste gully
GT	gully trap
HT	hose tap
ID	inside diameter
OD	outside diameter
OF	over flow
OFO	over flow outlet
ORG	over flow relief gul
TV	terminal vent
WC	water closet
IJ	inspection junction
IB	inspection bend

Civl & Plumbing Abbreviations

Sheet Setouts

C-001 series - civil drawings
A-100 series - architectural plans
A-200 series - architectural elevations & sections
A-300 series - architectural details
A-400 series - door & window schedule and deta

A-450 series - joinery details A-460 series - interior finishes schedules

S-500 series - structural ground floor and mid floor plans S-550 series - foundation details S-560 series - mid floor details

S-600 series - find floor details
S-600 series - precast & masonry elevations & details
S-620 series - precast stairs & details
S-700 series - holding down bolt plans

S-700 series - holding down bolt plans
S-705 series - structural roof framing plans
S-800 series - structural elevations and sections

S-900 series - structural elevations and sections and sections series - structural details
S-1000 series - 3D views

Hamilton

Tauranga

Drawn: MT

4 06-06-2025 MT RESOURCE CONSENT 3 06-06-2025 MT FOR BUILDING CONSENT

2 06-02-2025 MT FOR INFORMATION 1 23-01-2025 MT FOR INFORMATION

Rev Date by

Auckland Napier

New Plymouth

Ph: 0508 BCD GROUP (223 47687) Website: bcdgroup.nz









UC

vert. WB

deformed bars (grade 500E)

Contractor

round bars (grade 500E)

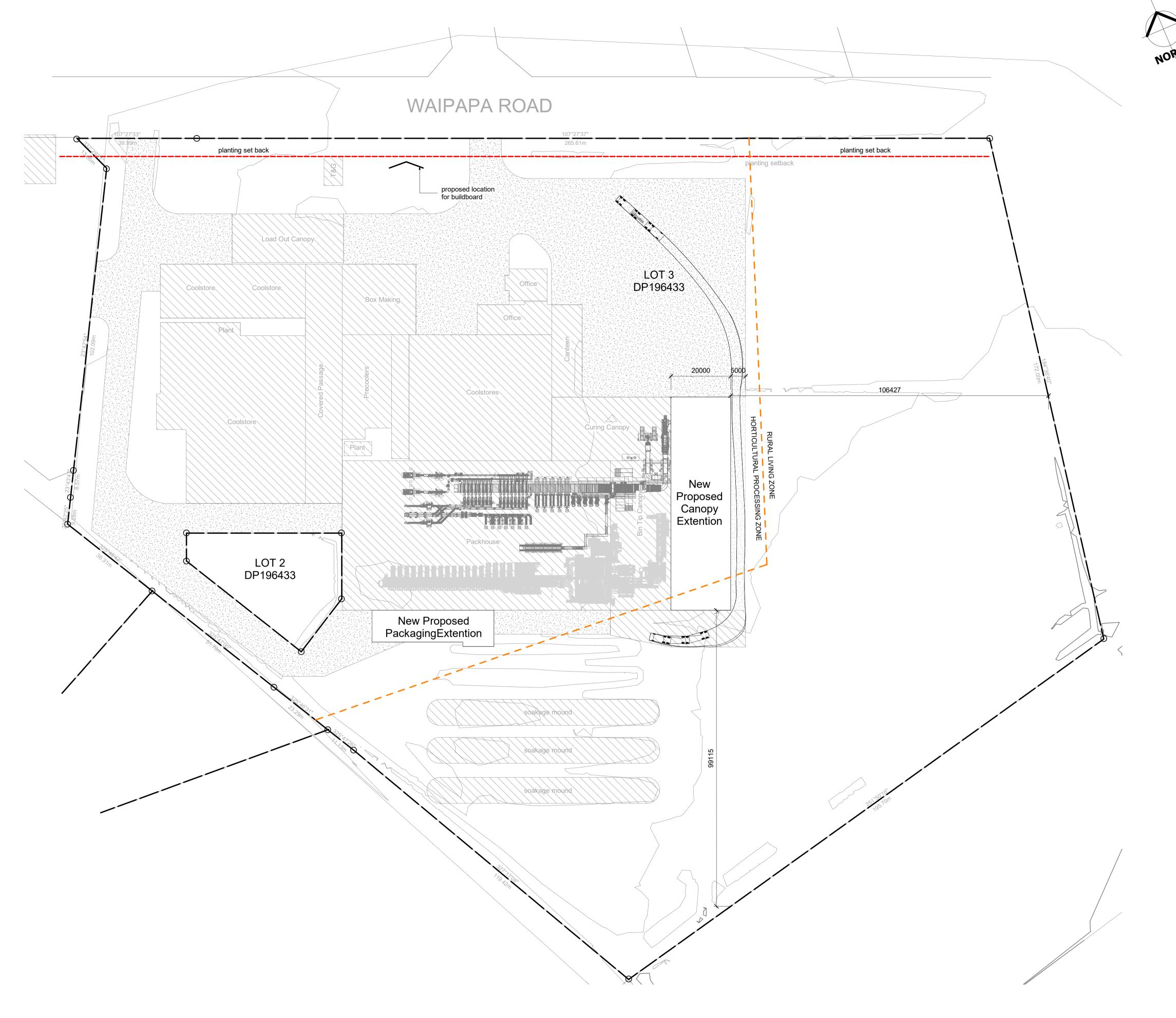
horizontal

mild steel

near face

inside face





Site Information & Requirements

Street Address: 153 Waipapa Road, Kerikeri

DP & Lot Number: DP 196433, Lot 3

Local Council: Far North District Council

Zone: Horticulural Processing / Rural Living Zone

Site Area: 68,752m²

Zone Information: EQ Zone: Zone 1 Wind Zone: H Corrosion Zone: Zone c

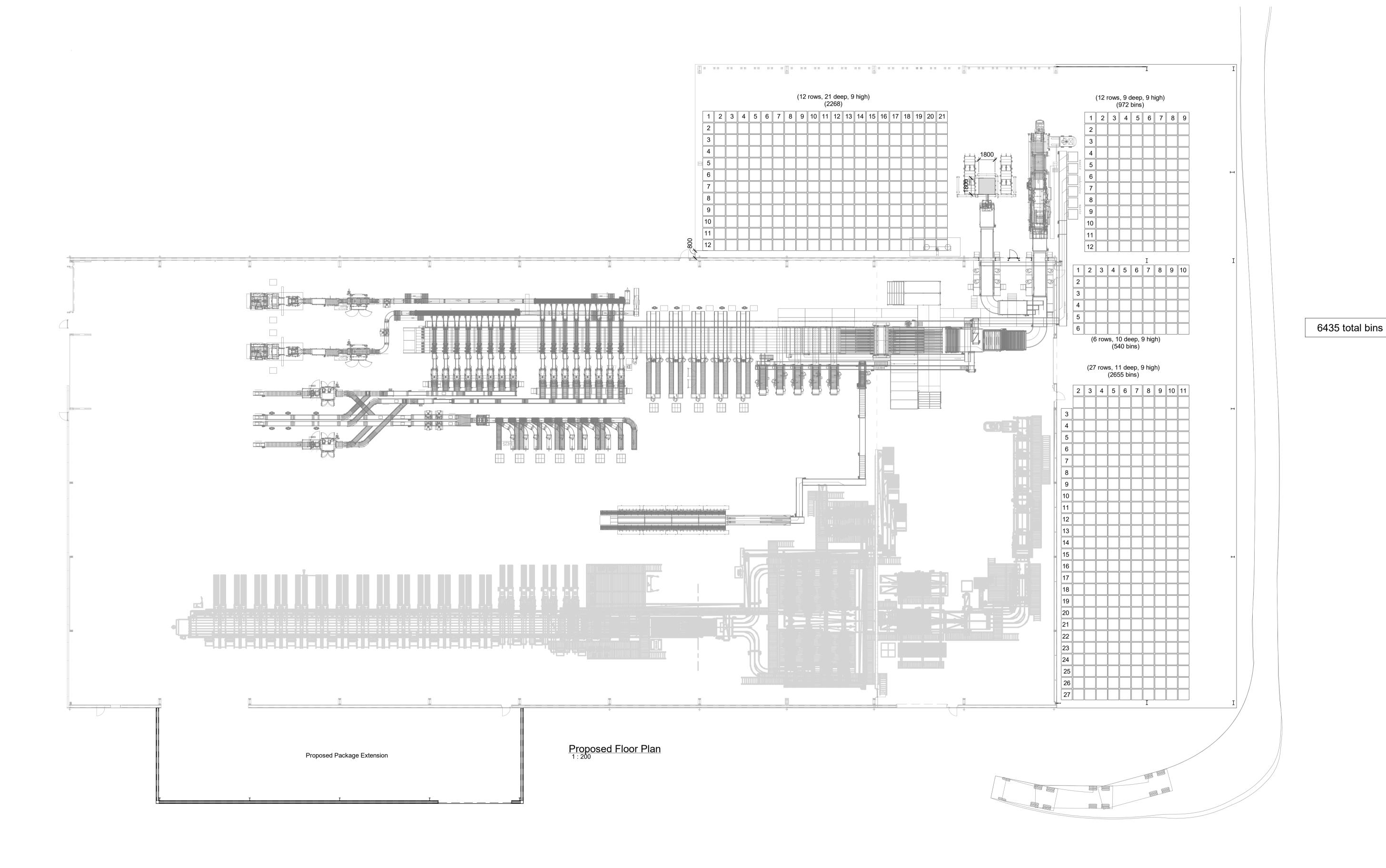
Notes:

- Site boundaries/ levels nominal and subject

- Site boundaries/ levels nominal and subject to survey.
 Easements not shown.
 Dimensions approximate and subject to confirmation.
 Structure and grid setout indicative only and subject to calculation.
 Stormwater detention/ soakage/ treatment/ discharge not yet checked
- Resource Consent not expected/ expected.







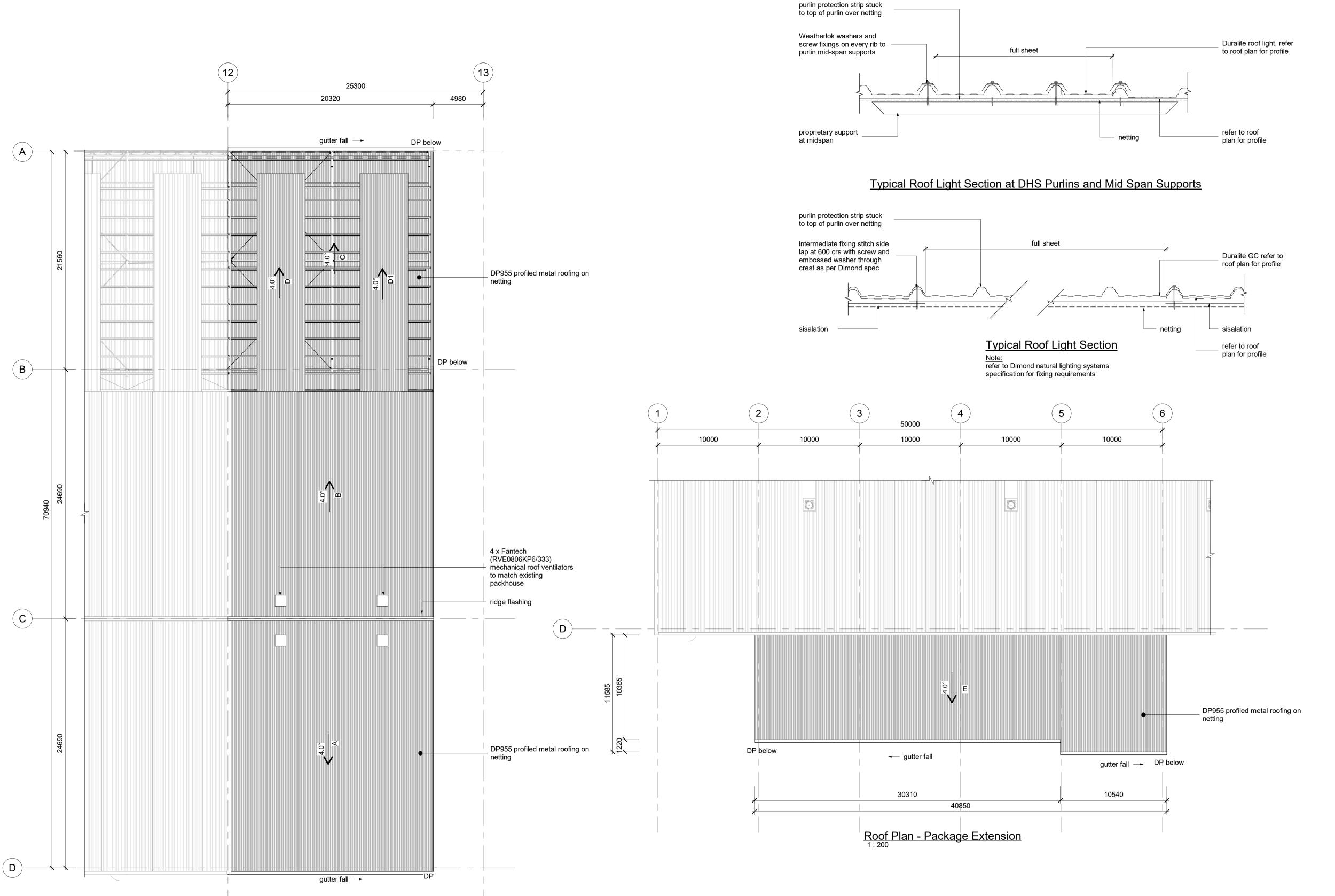
Seeka

all dimensions to be verified on site before making any shop drawings or commencing any work.





PROPOSED FL	OOR PLAN
Project Title SEEKA STAGE	1B - PACKHOUSE CANOPY EXTENSION
153 WAIPAPA ROAD, KERIKER	

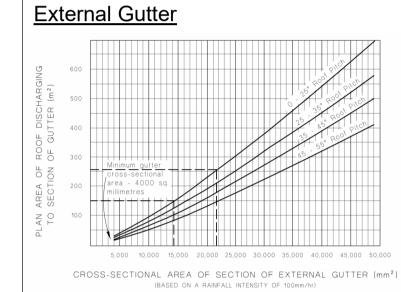


Roof Notes

- All roofing work is to be carried out by suitably qualified and experienced tradespeople.
- All work is to be carried out in accordance with NZ Metal Roof
- & Wall Cladding Code of Practice.
- All work is to be carried out in accordance with the NZ Building Code.
- Any details that the contractor does not consider to be good trade practice are to be noted to the designer at time of tender.
- All flashings are to be fitted to allow for thermal expansion as per NZBC E2/AS1 clause 4.5
- Screw fixing set out is to comply with NZ Metal Roof & Wall
- Cladding Code of Practice.
- All roofing and flashings are to be a minimum thickness of 0.55mm BMT gauge.
- Metal Flashings general dimensions as per NZBC E2/AS1
- Allow for compatibility of materials in contact as per NZBC
- E2/AS1 Table 20.Allow for one piece welded under flashings at all complex
- junctions.
- Allow for all nogging required for support of flashings and penetrations.
- Roof trusses shall be designed by a truss manufacturer and shall be supported on exterior walls only. The truss manufacturer shall design all lintels supporting girder trusses.

DOWN PIPE SIZE FOR GIVEN ROOF PITCH & AREA Max plan area of roof served by the downpipe (m²) Dia 0.25° 25.25° 25.45° 45.55°

Max plan a	rea of ro	of served I	by the down	pipe (m²)	
Dia	0-25°	25-35°	35-45°	45-55°	
63mm Ø	60	50	40	35	
74mm Ø	85	70	60	50	
100mm Ø	155	130	110	90	
150mm Ø	350	290	250	200	



NZBC E1/AS1 - Surface Water Paragraphs 5.1.2 and 5.1.3 Figure 15 - Cross-sectional Area of External Gutter

Roof Areas

Roof area <u>A</u> 507m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²
as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area **B** 507m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²
as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area <u>C</u> 349m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²

as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area **D&D1** 103m²
as per NZBC E2/AS1 Figure 16
minimum internal gutter cross-sectional area = 18500m²
as per NZBC E2/AS1 Table 5, minimum downpipe size = 100 Ø

Roof area <u>C,D & D1</u> 555m²
as per NZBC E2/AS1 Table 5
minimum external gutter cross-sectional area = 18500m²
minimum downpipe size = 100 Ø

Roof area total 1918m²

Roof area <u>E</u> 437m²
as per NZBC E2/AS1 Table 5
minimum external gutter cross-sectional area = 18500m²

minimum downpipe size = 100 Ø

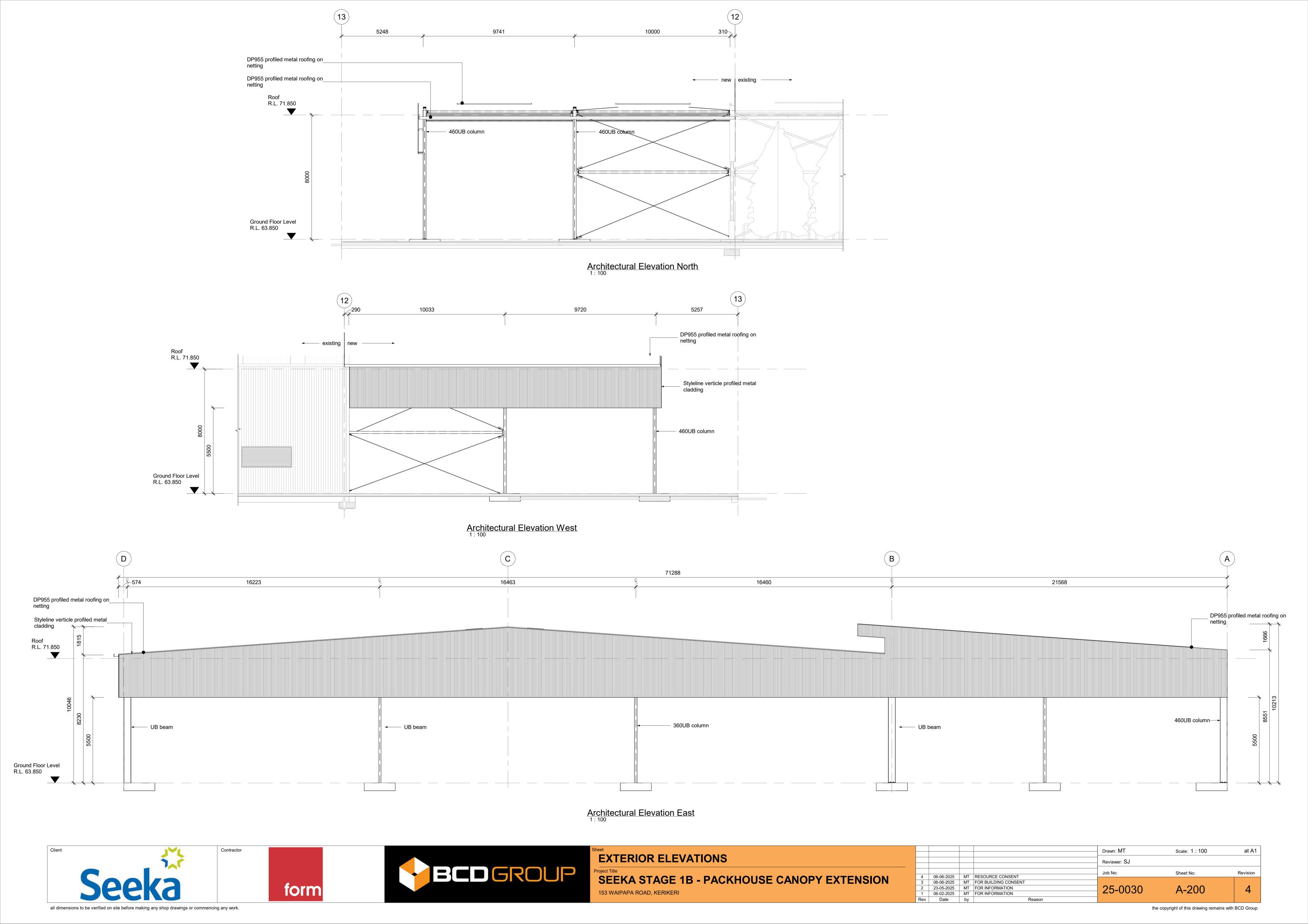


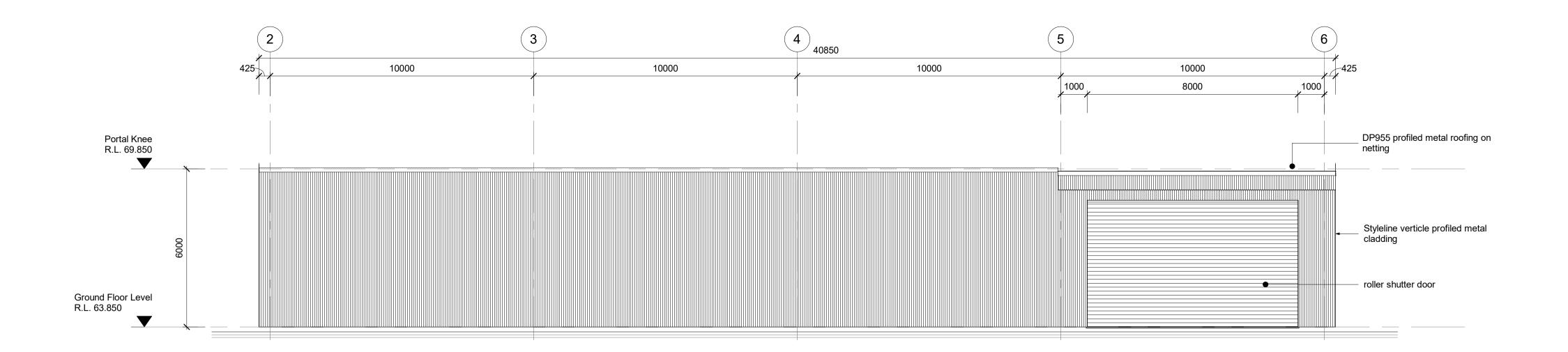


Roof Plan - Canopy Extension

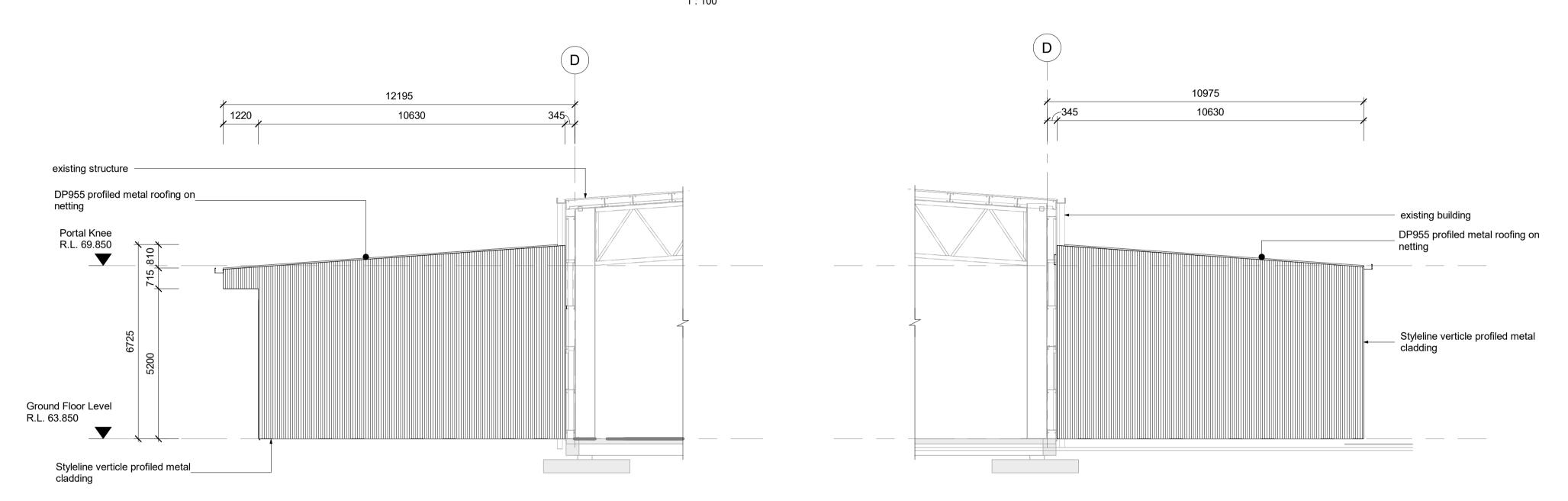








Archiectural Elevation - Gridline D



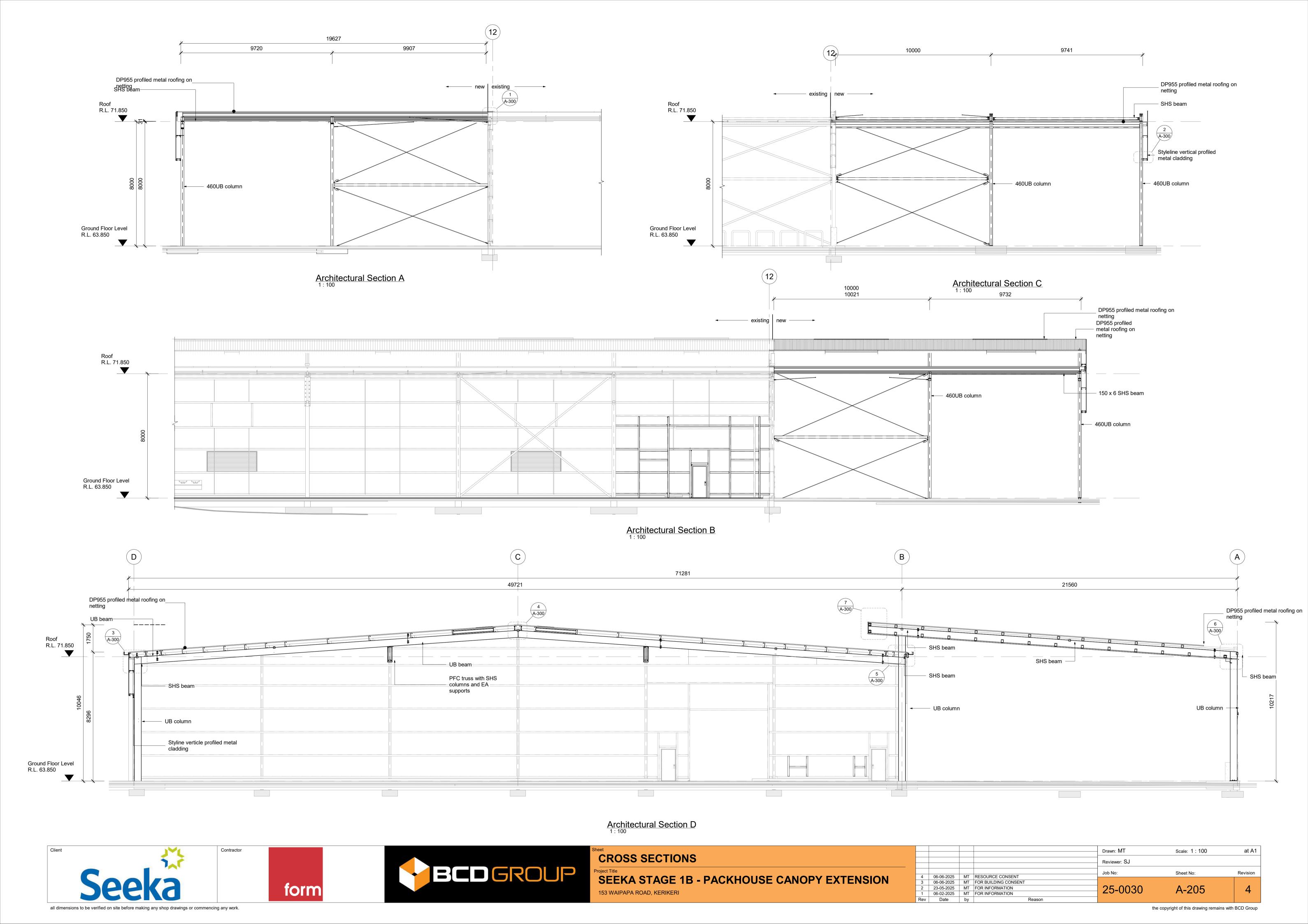
Archiectural Elevation - Gridline 6

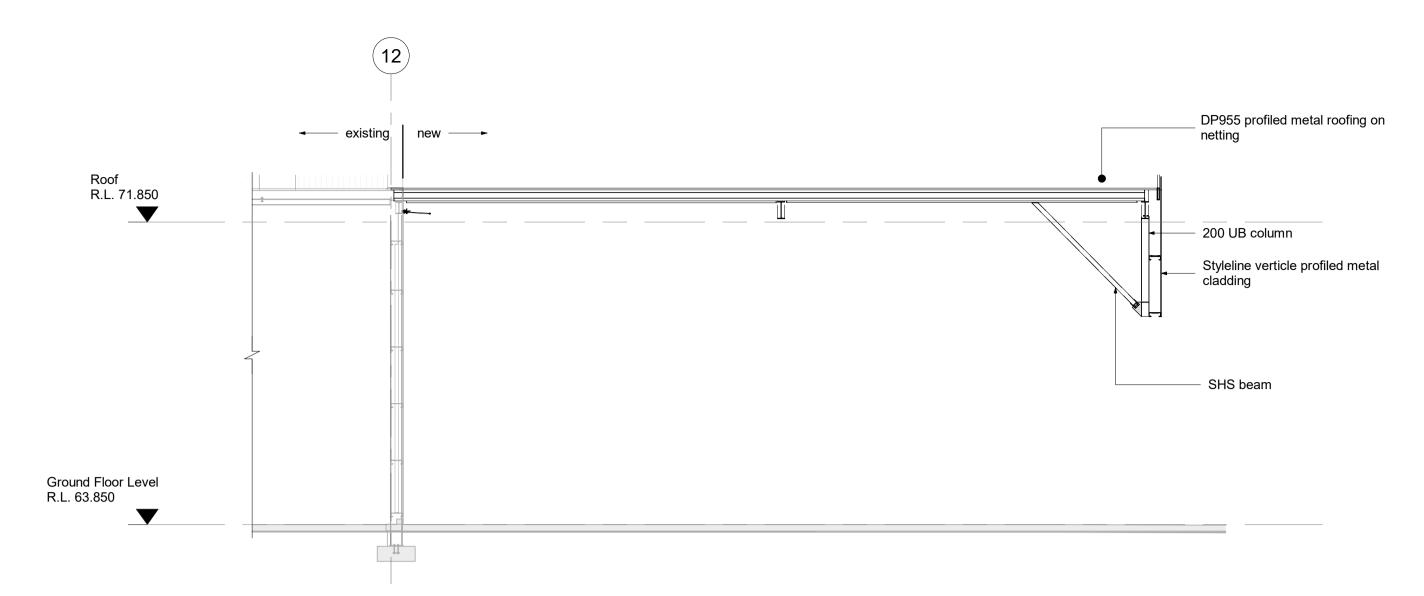
Architectural Elevation - Gridline 2





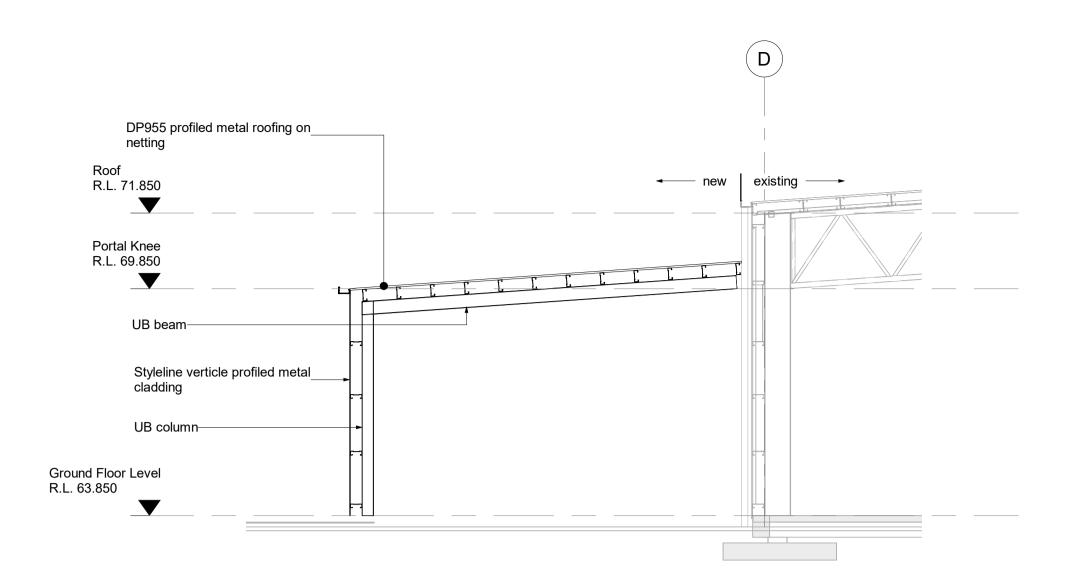






Architectural Section Between Gridline C and D

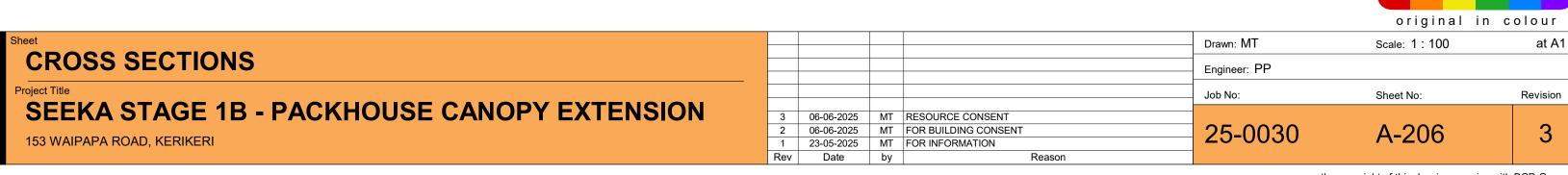
form



Architectural Section Gridline 4









x1 'V' Shape Billboard x2 changeable printed canvas sign panels @ 3000mm x 6000mm Total Height 5m ground to top of sign panel



Memorandum

To: Seeka Ltd File No: 638080-CLV -SW memo

Attention:

From: S Bos

Date: 11 June 2025

Subject: 153 Waipapa Road, Kerikeri

Additional Canopy Extension – Stormwater mitigation

As per Seeka's advice we confirm the following:

• It is proposed to provide for an additional area of canopy on the southeast corner of the existing main building.

- The new canopy will add an additional 1428 sq metres of roof area.
- There is also a requirement to cater for an additional 205 sq metres of additional development elsewhere on the site.
- Currently the site stormwater flow is mitigated with initial discharge to 4 x 50,000 litre retention tanks that then release the flow to the site boundary.
- The tanks are controlled by a 100 and 80 mm diameter orifice outlets with a high level 150 mm outlet.
- To account for the additional discharge area, it is recommended that a further 2 x 50,000 litre tanks are added to the retention tanks 'farm'.
- We have provided calculations, PS 1 and drawings outlining the requirements and confirming the derivation of the additional storage volume requirement.

Based on the provision of the additional storage mitigation we confirm that the site discharge remains as per the existing outflows, with no increase or change of effects at the boundary.

Should you have any queries on the information supplied please contact the undersigned. Yours faithfully,

Stratum Consultants Ltd

Stephen Bos

CPEng, CMEngNZ, BE, NZCE





PRODUCER STATEMENT – PS1 DESIGN

BUILDING CODE CLAUSE(S):	E1	JOB NUMBER: 63808	0
ISSUED BY:	STRATUM CONSULTANTS LTD		
(Engineering Design Firm)	CEEKA LIAMED		1
TO: (Owner/Developer)	SEEKA LIMITED		
TO BE SUPPLIED TO:	FAR NORTH DISTRICT COUNCIL		
(Building Consent Authority)	TARROW DISTRICT COUNCIL		Į.
IN RESPECT OF:	DESIGN OF STORMWATER CAPTUI	RE AND RETENTION FOR CANOPY EX	TENSION
(Description of Building Work)			1
AT:	153 Waipapa Road, Kerikeri		
(Address, Town/City)		1	
LEGAL DESCRIPTION:	LLot 3 DP 196433		N/A 🗌
DESIGN OF RETENTION TANKS	S AND STORMWATER DRAINAGE FOR of the Clause(s) of the Building Code		, as specified in the
• Compliance docum		n: ess, Innovation & Employment (<i>Verij</i>	1
solution) NZBC E1 / A ■ Alternative solution	S 1 / VM1 n as per the attached Schedule.		and/or;
_	overed by this producer statement is er documents set out in the Schedul	s described on the drawings specified le.	d in the Schedule, together
On behalf of the Engineering	r		1
	e following design assumptions: Gro cts meeting their performance speci	ound conditions / loading as per the C fication requirements;	Geotechnical report .
I believe on reasonable groun	ds that:		
Schedule, will comply	with the relevant provisions of the		ents provided or listed in the
 the persons who have 	e undertaken the design have the ne	ecessary competency to do so.	
I recommend the CM 3	level of construction monitoring.		
I, (Name of Engineering Design •			, am:
and hold the following qu	alifications BE (hons), CPEng, CMEn	gNZ, NZCE (civil)	
	olds a current policy of Professional hoose one a member of ACE New Ze	Indemnity Insurance no less than \$2 aland.	200,000
SIGNED BY (Name of Engineeri (Signature below):	ing Design Professional): STEPHEN B	BOS	
	(87/20)		

ON BEHALF OF (Engineering Design Firm):

STRATUM CONSULTANTS LTD Date: 11/06/2025

Note: This statement has been prepared solely for the Building Consent Authority named above and shall not be relied upon by any other person or entity. Any liability in relation to this statement accrues to the Engineering Design Firm only. As a condition of reliance on this statement, the Building Consent Authority accepts that the total maximum amount of liability of any kind arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in tort or otherwise, is limited to the sum of \$200,000.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

 Job Number
 638080
 Page 1 of 3
 November 2021

SCHEDULE to PS1

Please include an itemised list of all referenced documents, drawings, or other supporting materials in relation to this producer statement below:

DESIGN VERIFICATION OF STORMWATER PIPE SIZIGN AND NEW RETENTION TANKS FOR SITE EXPANSION WORKS

GUIDANCE ON USE OF PRODUCER STATEMENTS

Information on the use of Producer Statements and Construction Monitoring Guidelines can be found on the Engineering New Zealand website

https://www.engineeringnz.org/engineer-tools/engineering-documents/producer-statements/

Producer statements were first introduced with the Building Act 1991. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects (NZIA), Institution of Professional Engineers New Zealand (now Engineering New Zealand), Association of Consulting and Engineering New Zealand (ACE NZ) in consultation with the Building Officials Institute of New Zealand (BOINZ). The original suite of producer statements has been revised at the date of this form to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with part of the reasonable grounds necessary for the issue of a Building Consent or a Code Compliance Certificate, without necessarily having to duplicate review of design or construction monitoring undertaken by others.

PS1 DESIGN Intended for use by a suitably qualified independent engineering design professional in circumstances where the BCA accepts a producer statement for establishing reasonable grounds to issue a Building Consent;

PS2 DESIGN REVIEW Intended for use by a suitably qualified independent engineering design review professional where the BCA accepts an independent design professional's review as the basis for establishing reasonable grounds to issue a Building Consent;

PS3 CONSTRUCTION Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:2013 or Schedules E1/E2 of NZIA's SCC 2011²

PS4 CONSTRUCTION REVIEW Intended for use by a suitably qualified independent engineering construction monitoring professional who either undertakes or supervises construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACE New Zealand and Engineering New Zealand to interpret the Producer Statement.

Competence of Engineering Professional

This statement is made by an engineering firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the firm and competence of its personnel.

The person signing the Producer Statement on behalf of the engineering firm will have a professional qualification and proven current competence through registration on a national competence-based register such as a Chartered Professional Engineer (CPEng).

Membership of a professional body, such as Engineering New Zealand provides additional assurance of the designer's standing within the profession. If the engineering firm is a member of ACE New Zealand, this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent engineering professional".

Professional Indemnity Insurance

As part of membership requirements, ACE New Zealand requires all member firms to hold Professional Indemnity Insurance to a minimum level.

The PI Insurance minimum stated on the front of this form reflects standard practice for the relationship between the BCA and the engineering firm.

Professional Services during Construction Phase

There are several levels of service that an engineering firm may provide during the construction phase of a project (CM1-CM5 for engineers³). The building Consent Authority is encouraged to require that the service to be provided by the engineering firm is appropriate for the project concerned.

Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

Refer Also:

- Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- ² NZIA Standard Conditions of Contract SCC 2011
- Guideline on the Briefing & Engagement for Consulting Engineering Services (ACE New Zealand/Engineering New Zealand 2004)
- ⁴ PN01 Guidelines on Producer Statements

www.acenz.org.nz www.engineeringnz.org Job Title Site Address SEEKA Ltd

153 Waipapa Road

City Kerikeri *Job No.* 638080

Page
No of Pages
Date June 25
By SB



TGA REV 3 - 13/08/2019

Stormwater Catchment Data

Existing Site Area = 7988 m²

Existing runoff coeff 0.5 From Original Calc

Rainfall Intensities mm/hr HIRDS

Return		Durat	ion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	132.0	95.6	79.1	56.8	39.9	21.3	13.7
50	178.0	129.0	107.0	77.3	54.4	29.2	18.8
100	199.0	144.0	120.0	86.2	60.8	32.8	21.1

Revised runoff coeff Runoff coeff Total **Building Coverage** 6355 0.9 5720 Canopy 1428 0.9 1285 Future Roof area 205 0.9 184.5 wastewater 0.3 Balance 0.3 0 7189 Average runoff coeff = 0.9

Existing Site Discharge (Q = CIA) /s

5 7									
Return		Durat	ion (mir	nutes)					
Period	10	20	30	60	120	360	720		
10	146.4	106.1	87.8	63.0	44.3	23.6	15.2		
50	197.5	143.1	118.7	85.8	60.4	32.4	20.9		
100	220.8	159.8	133.1	95.6	67.5	36.4	23.4		

Developed Site Discharge (Q = CIA) //s

Return		Durat	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	263.6	190.9	158.0	113.4	79.7	42.5	27.4
50	355.5	257.6	213.7	154.4	108.6	58.3	37.5
100	397.4	287.6	239.6	172.1	121.4	65.5	42.1

Orifice Plate sizing

 $Q = cA (2gH)^{\Lambda^{0.5}}$

c= 0.609 H = 3.1 Existing Tank and Orifice Bae Level Outlet
Orifice Plate diameter = 100 mm Area = 0.008

Q @ max head = 37.3 l/s (less than peak non developed flow)

Storage Required - m^{3 -} (inflow less outflow x storm duration

Return		Durat	ion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	135.8	184.3	217.2	274	305	113	-429.6
50	190.9	264.4	317.5	421	514	454	10.4
100	216.1	300.3	364.2	485.4	605.6	609	208.8

USE $6 \times PROMAX$ WATER TANK (50,000 LITRES) PLUMBED INTO SW DOWNPIPES (FROM HIGH LEVEL) WITH 100mm DIAMETER OUTLET TO SW DRAIN TANK TO BE NOMINALLY EMPTY AND TO FILL DURING RAINFALL EVENTS

	JOB TITLE	Seeka Katikati			PAGE	1	i
Stratum Consultants Ltd	ADDRESS						ı
	JOB No.	638080	DATE	June 25	BY	SJB	

OK OK

OK

Stormwater pipe sizing

Location 153 Waipapa Road, Kerikeri 2095

Design rate is 1 in 10 year Tc = 10min

							n	1							i
LINE	Contributing	Contributing	C	I	Q 1/s	Sum Q	IL	IL	Diff	Dist	GRADIENT	PIPE	Pipe Dia	Pipe	
	Lot	Area			Q = CIA	<u>.</u>	1st point	2nd point		Between		Roughness	Rqd	Capacity	
		m^2		mm/Hr	1/s	l/s	m	m	m	m		K	mm	1/s	
DP set 1	Canopy 1	928.00	0.9	132	30.62	31					0.50%	1.5	250	35	
DP set 2	Canopy 2	500.00	0.9	132	16.50	17					0.50%	1.5	200	20	
		combined				47					0.50%		300	65	j
		0.00	2	2		CONTENT									

0.00 m² m² TOTAL CONTRIBUTING AREA

HIRDS V4 Intensity-Duration-Frequency Results

Sitename: 1 Kerikeri 2095

Coordinate system: WGS84

Longitude: 173.948 Latitude: -35.2091

DDF Model Parameters c d e f g h i

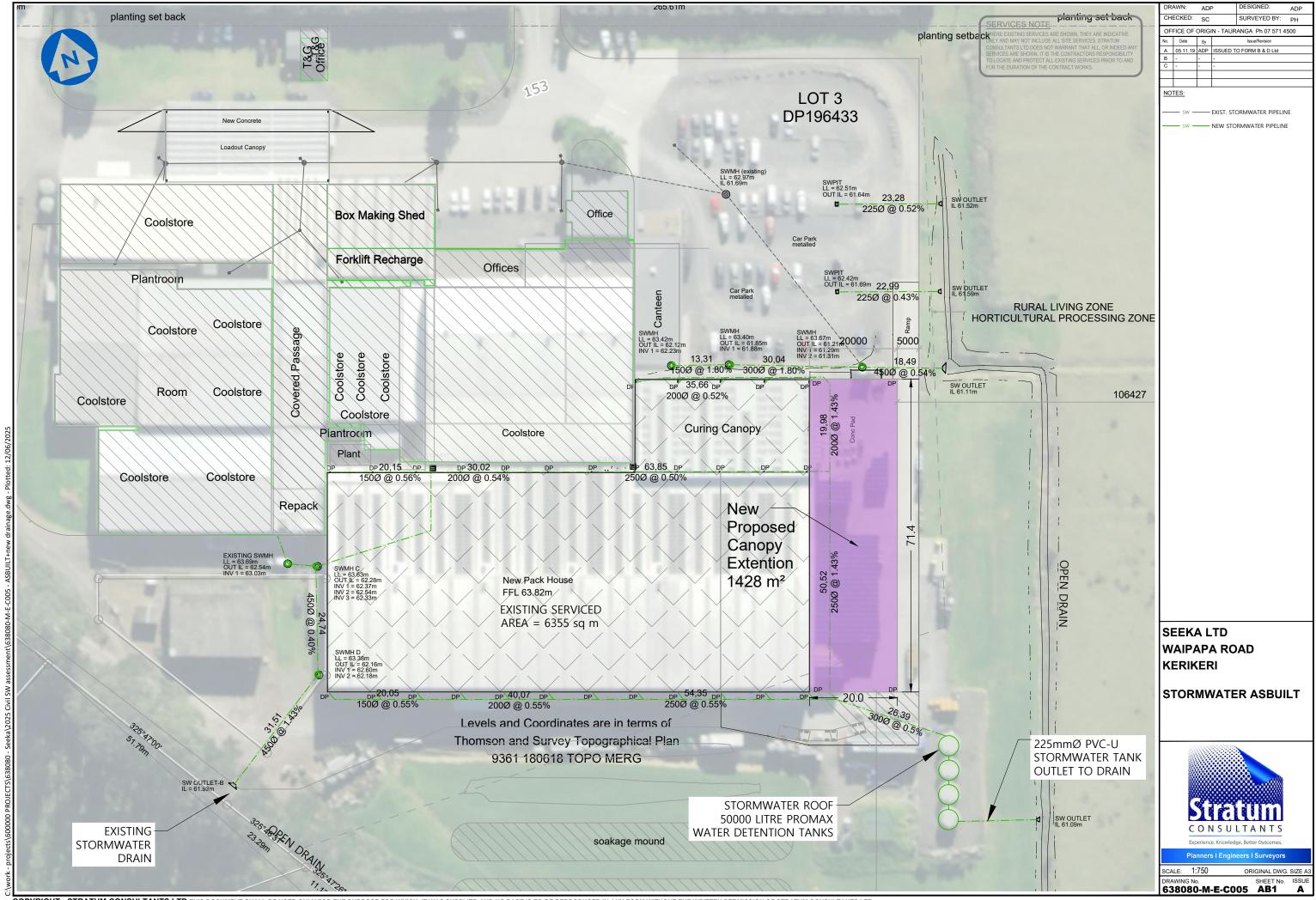
Values: 0.002375 0.509989 -0.014502 -0.003816 0.253522 -0.011696 3.23771

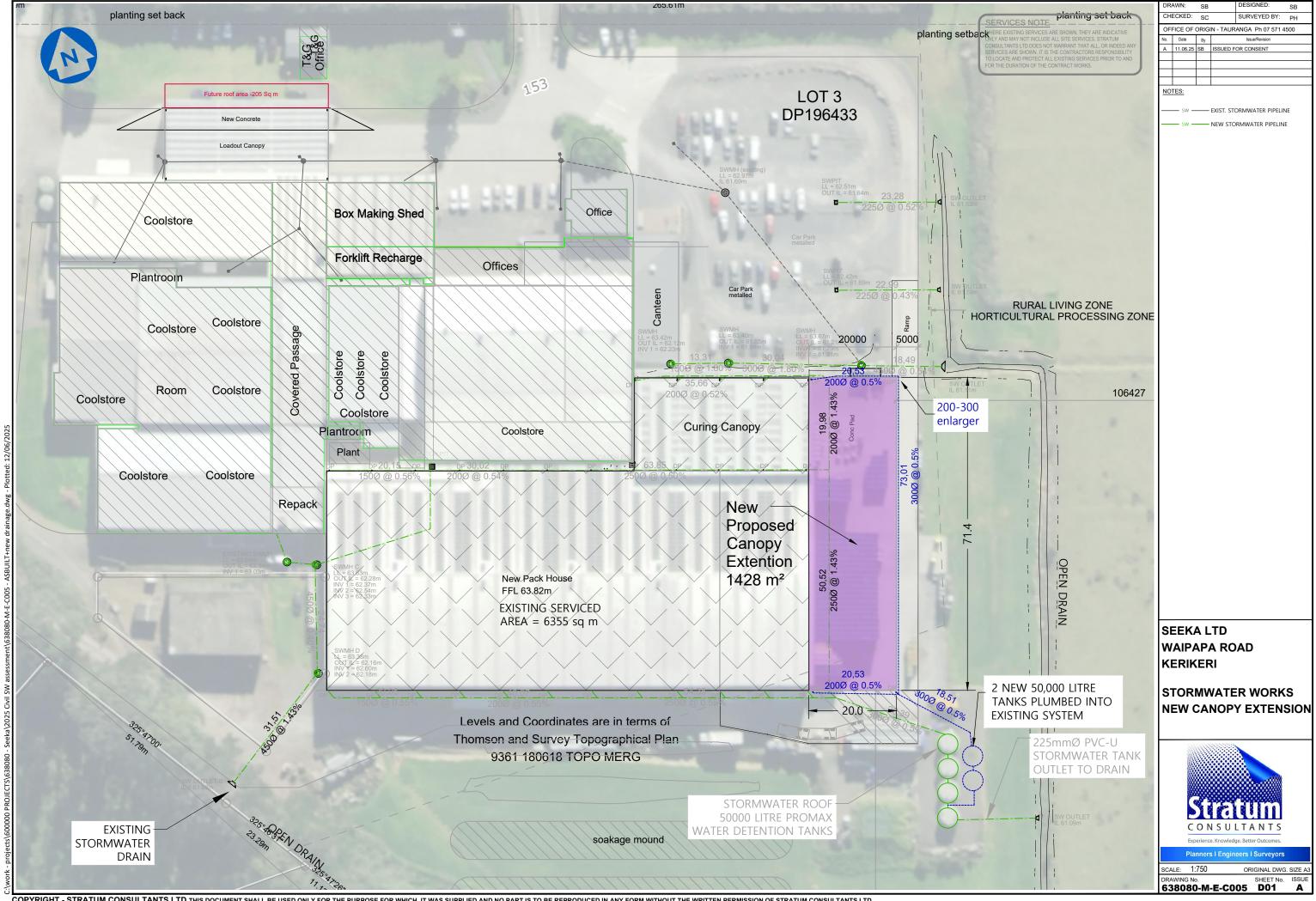
Example: Duration (h ARI (yrs) x y Rainfall Rate (mm/hr)

24 100 3.178054 4.600149 10.64305

Rainfall intensities (mm/hr) :: Historical Data

		,											
ARI	AEP	10m	20m	30m	1h	2h	6h	12h	24h	48h	72h	96h	120h
10	0.1	98.8	71.5	59.1	42.5	30.1	16.6	11	6.96	4.2	3.04	2.39	1.97
50	0.02	132	96	79.6	57.3	40.7	22.6	15	9.51	5.75	4.17	3.29	2.71
100	0.01	147	107	88.5	63.8	45.4	25.3	16.7	10.6	6.44	4.68	3.69	3.04
Rainfall inte	ensities (mn	n/hr) :: RCP8	.5 for the pe	riod 2031-2	050								
ARI	AEP	10m	20m	30m	1h	2h	6h	12h	24h	48h	72h	96h	120h
10	0.1	110	79.4	65.7	47.2	33.3	18.2	11.9	7.44	4.45	3.21	2.51	2.06
50	0.02	148	107	88.7	63.9	45.3	24.8	16.2	10.2	6.11	4.42	3.46	2.85
100	0.01	164	119	98.7	71.2	50.5	27.7	18.2	11.4	6.85	4.96	3.89	3.2
Rainfall inte	ensities (mn	n/hr) :: RCP8	.5 for the pe	riod 2081-2	100								
ARI	AEP	10m	20m	30m	1h	2h	6h	12h	24h	48h	72h	96h	120h
10	0.1	132	95.6	79.1	56.8	39.9	21.3	13.7	8.41	4.95	3.55	2.76	2.26
50	0.02	178	129	107	77.3	54.4	29.2	18.8	11.6	6.85	4.91	3.83	3.13
100	0.01	199	144	120	86.2	60.8	32.8	21.1	13	7.69	5.52	4.3	3.52





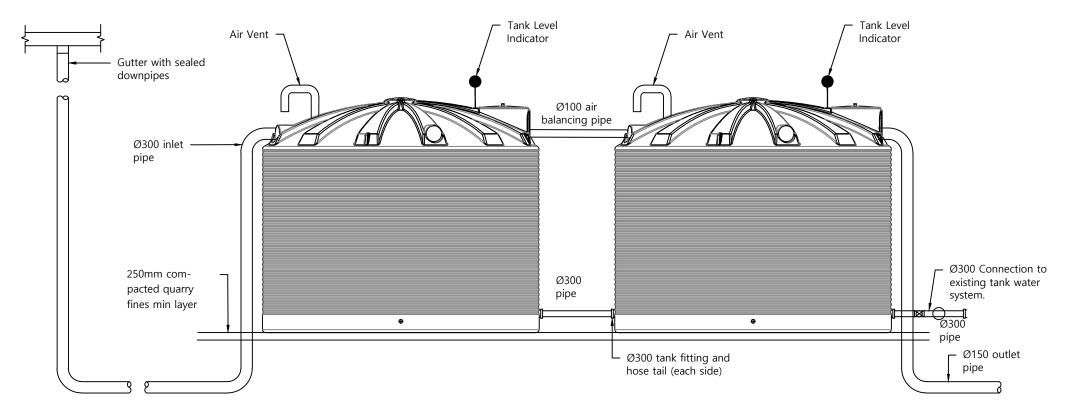


SERVICES NOTE

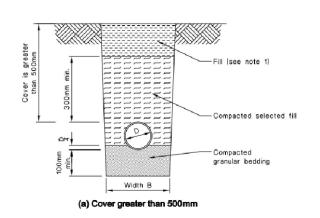
WHERE EXISTING SERVICES ARE SHOWN, THEY ARE INDICATIVE ONLY AND MAY NOT INCLUDE ALL SITE SERVICES. STRATUM CONSULTANTS LTD DOES NOT WARRANT THAT ALL, OR INDEED ANY SERVICES ARE SHOWN. ITS IT HE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING SERVICES PRIOR TO AND FOR THE DURATION OF THE CONTRACT WORKS.

	DR	AWN:	SB		DESIGNED:	SB
	CH	ECKED:	SC		SURVEYED BY:	PH
	OF	FICE OF	ORIGI	N - TAUR	ANGA Ph 07 571	4500
	No.	Date	Ву		Issue/Revision	
	Α	11.06.25	SB	ISSUED F	OR CONSENT	
	_					
)						
	NO.	TES:				
	-					

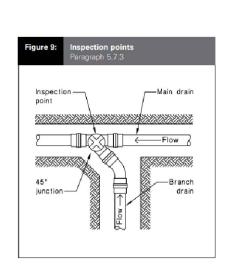
- SW ——— EXIST. STORMWATER PIPELINE
- SW ——— NEW STORMWATER PIPELINE

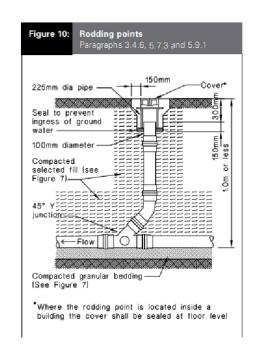


ADDITIONAL Tank Schematic - 1:50 @ A3



Bedding and Backfill Detail - nts





SEEKA LTD WAIPAPA ROAD KERIKERI

STORMWATER DETAILS



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ORIGINAL DESIGN REPORT

MEMORANDUM



To:

SEEKA Ltd

File No. 638080-M-E-D001

Attention:

Michael Ruegg

From:

Alex du Plessis

Date:

16.10.2018

Subject:

Seeka Coolstore Site, 153 Waipapa Road, Kerikeri

Introduction

Please find attached supporting documents for your building consent lodgement for the proposed coolstore at the above site. Further commentary is provided under the relevant headings.

Site Works

Site works are being carried out in accordance with the recommendations of our geotechnical assessment report¹, and the resource consent for large scale earthworks obtained from Northland Regional Council² and Far North District Council³

Works comprise undercutting unsuitable material comprising topsoil and uncertified fill from beneath the building platform and backfilling with imported granular fill.

The completed works will provide a platform suitable for construction of the proposed coolstore.

Site works are being carried out with appropriate geotechnical monitoring comprising site inspections by geotechnical engineers and progressive testing of compacted fill material.

Upon completion, a summary report including as built will be prepared and PS4 issued for the works.

Stormwater Disposal

Attached are plans, calculations and a PS1 for the stormwater drainage works on site.

Comparison of total site discharge for predevelopment and post development has been calculated for a 100 year / 10 minute storm).

Pre-development Runoff

1173l/s

Post-development Run-off

1344l/s - Pre-mitigation

Post Development Run-off

1119l/s - Post-mitigation

The total detention for the site was assessed and an attempt was made to mitigate only the roof stormwater, so as to not require any other site stormwater control.

¹ Geotechnical Assessment prepared by Stratum Consultants Ltd dated 8.08.2018 and referenced 638080-M-E-C003

 $^{^2}$ Northland Regional Council Resource Consent File: 40373 - AUT.040373.01.01 to AUT.040373.04.01.

³ Far North District Council Consent File: 2190096-RMALUC.

Based on the fact that the carparks and hardstand (on ground and therefore by default not able to be serviced by a standard detention tanks) are of a similar size as the new building, mitigation of the roof water alone is sufficient to ensure that the post development flow was less than the predevelopment. The carpark will be constructed using an unsealed surface with metal placed and swale grass drains to treat stormwater runoff as it drains to the southern boundary. It was noted that some maintenance and cleaning need to be done on the existing catchpits and stormwater system to provide better stormwater runoff.

Accordingly, the areas were therefore examined on roofed area and 'on ground' area basis, with the roofed area provided with stormwater control tanks, sized to mitigate the 1 in 100 year 60 minute storm.

It is recommended that Promax 50,000 Litre tanks be installed (4 in total for roofed area) and all down pipes be piped to the retention tanks. The outfall for the tanks should be controlled by a 100mm diameter orifice plate for the 10 year/60-minute storm, which then connects to the piped stormwater system to open drain. A second 80mm diameter orifice was calculated and need to be placed 2.45m higher than 100mm diameter orifice on the tanks for the 100 year/60-minute storm. This will allow attenuation for both storm events.

The restricted runoff from the 100mm diameter orifice was calculated to be 37.3l/s less than peak non developed flow and 83.93l/s less than peak non developed flow for the 100 year/10-minute storm. (See drawing 638080-M-E-D001 SHT 07 for details on the stormwater tanks layout).

On ground: - To future proof the development a 375mm diameter pipeline will be installed from SWMH A to the outlet. The upstream pipeline form SWMH A to SWMH B will be serviced by a 300mm diameter pipeline. Which will be used for a future cool storage building upgrade and unsealed carpark and access surfaces.

The access road to the north and to the front of the new development should be provided with a nominal fall to the open grassed drain (located at the low point). The open drain is flowing south and is east of the new development and flows for slow release to the adjacent existing Stormwater system.

Provision of both sets of stormwater controls will therefore result in controlled discharge of the development site to a lesser predevelopment level.

Wastewater Disposal

Wastewater to be installed by Innoflow.

Site Access

Metaled areas:

Excavate for access and paved areas to the line, gradient and levels shown on the drawings.

Should any excavation be made below the level required or directed, the Contractor must fill the over excavation with compacted hardfill.

After the subgrade has been trimmed and compacted to level and prior to the placement of basecourse the Engineer shall inspect the subgrade and may carry out CBR testing. The Engineer shall also inspect the basecourse prior to paving or laying foundations.

If unsuitable ground, rock or underground obstruction is encountered during excavation, notify the Engineer and cease work in that area until inspected and agreement on volume and rate for removal is agreed.

Basecourse GAP40 metal shall be spread evenly from trucks with tailboards set for spreading, avoiding all unnecessary segregation. (Refer drawings for details.) It shall then be evenly spread over the full width of the strip being metalled to a maximum depth of 125mm loose.

Compaction shall be carried out immediately after the basecourse has been spread. Compact by rolling with a 10 to 12 tonne steel wheeled roller until solid. Water shall be added as necessary.

The roller shall begin at the channel or low side and moving longitudinally, progress towards the high side or crown working the metal thoroughly until it does not weave or creep. Additional layers shall then be placed in a similar manner until the total compacted thickness has been reached. Judicious hand spreading of mineral fines, at the Contractors expense, to open textured areas will be permitted. Moistening and blading of metal shall be kept to a minimum.

2. Concrete areas:

The Truck Unloading area shall be generally be concrete with 663 mesh layer laid central and a minimum 28 day strength of 20MPa and with a minimum thickness of 150mm on a compacted subgrade. The construction boxing shall be 150mm thick.

The concrete shall be supplied to the site from a certified ready mix concrete supplier. Concrete shall comply with NZS 3109 and dockets to validate this shall be provided upon completion.

Contraction joints shall be cut by guillotine and spaced at not more than 6.0m centres.

Cold joints in concrete more than two hours old shall be cut with a saw to provide a proper face on which to restart the extrusion.

The exposed surface of all concrete shall present a neat clean broom finish. All final surfaces shall be true to the lines and levels specified. Design considerations excepted, the final surface shall not vary by more than 5mm when checked with a 3m straight edge. No finished surface shall hold water.

Care shall be taken to ensure that no damage is done to the concrete structure when placing and compacting the backfill from the metaled access areas.

If you have any further questions, please call me.

Yours faithfully STRATUM CONSULTANTS LTD

Alex du Plessis Civil Engineer

Attachments: -

- Drawing No 638080-M-E-D001 Sheets 6, 7 and 11
- Stormwater calculations
- PS1

Job Title

SEEKA Ltd

Site Address

153 Waipapa Road

City Job No.

Kerikeri

638080

Page No of Pages Date Oct 18 By ADP



TGA REV 2 - 07/07/2010

Extreme rainfall assessment with climate change

1.58 0.633 66 6 47.7 39 4 28.2 19 5

5.00 0.200 90.0 64.5 53.2 38.2 26.5 14.9

40.00 0.025 138.0 100.2 82.6 59.8 41.9 23.8

60.00 0.017 150.0 108.6 89.8 64.9 45.5 25.8

50.00 0.020 145.2 104.7 86.6 62.6 43.8

consequential, arising out the use of HIRDSV3. @2018 NIWA

10m 20m 30m 60m 2h

0.500 71.4 51.6 42.2 30.2 20.9 11.7

10.00 0.100 104.4 75.0 62.0 44.6 31.1 17.5 12.2 8.5

80.00 0.012 159.0 114.9 95.0 68.8 48.2 27.4 19.2 13.4 7.9

100.00 0.010 166.2 120.3 99.6 71.9 50.4 28.6 20.1 14.0 8.3

methods. Nevertheless, NIWA does not accept any liability, whether direct, indirect or

In preparing this table, all reasonable skill and care was exercised using best available data &

Projected temperature change: 2.1° C Rainfall intensities (mm/h)

20.00 0.050 120.6 87.0

30.00 0.033 130.2 94.2

ARI (V) aep

2.00

Stormwater Catchment Data

Existing Site Area =

7432 m²

Existing runoff coeff

0.5

Rainfall Intensities mm/hr HIRDS

Training Medicales Million Miles												
Return		Durat	ion (mir	nutes)								
Period	10	20	30	60	120	360	720					
10	104.4	75.0	62.0	44.6	31.1	17.5	12.2					
50	145.2	104.7	86.6	62.6	43.8	24.9	17.4					
100	166.2	120.3	99.6	71.9	50.4	28.6	20.1					

Revised runoff coeff		Runoff	
		coeff	Total
Building Coverage	6632	0.9	5969
Canopy	800	0.9	720
Parking roadway		0.45	0
wastewater		0.3	0
Balance	0	0.3	0
			6689
Average runoff	coeff =		<u>0.9</u>
			1

Duration

6h

71.6 51.7 36:1 20.4 14.3 10.0 5.9

78.0 56.4 39.5 22.5

10.8 7.5

12h

10.4 7.2

15.7 11.0

18.1 12.7

16.7 11.7

24h

72h

2.2

2.4

3.1

4.3

4.7

5.3

5.5

5.8

6.1

5.0 3.7

6.5

Existing Site Discharge (Q = CIA) 1/s

The second secon		.,				
Return		Durat	tion (mi	nutes)		
Period	10	20	30	60	120	36

60 720 10 107.8 77.4 64.0 46.0 32.1 18.1 12.6 50 149.9 108.1 89.4 64.6 45.2 25.7 18.0 100 124.2 171.6 102.8 74.2 52.0 29.5 20.7

Develo	ped Site	Discharge	(Q = CIA)	l/s

Return		Durat	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	194.0	139.4	115.2	82.9	57.8	32.5	22.7
50	269.8	194.5	160.9	116.3	81.4	46.3	32.3
100	308.8	223.5	185.1	133.6	93.6	53.1	37.3

Orifice Plate sizing

 $Q = cA (2gH)^{0.5}$

0.609

H = "

Orifice Plate diameter =

3.1

100 mm

0.008

Q @ max head =

37.3 l/s

(less than peak non developed flow)

Area =

Storage Required - m³- (inflow less outflow x storm duration

Return		Durat	ion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	94.0	122.5	140.2	164	147	-103	-632.2
50	139.5	188.7	222.5	284	317	194	-214.8
100	162.9	223.5	266.0	346.6	405.7	342	1,9

USE 4 x PROMAX WATER TANK (50,000 LITRES) PLUMBED INTO SW DOWNPIPES (FROM HIGH LEVEL) WITH 100mm DIAMETER OUTLET TO SW DRAIN TANK TO BE NOMINALLY EMPTY AND TO FILL DURING RAINFALL EVENTS

Job Title

SEEKA Ltd

Site Address

153 Waipapa Road

City Job No.

Kerikeri 638080

Page No of Pages Date Oct 18 By ADP



TGA REV 2 - 07/07/2010

Extreme rainfall assessment with climate change

0.633 66.6 47.7 39.4 28.2 19.5

138.0 100.2 82.6

consequential, arising out the use of HIRDSV3. ©2018 NIWA

0.020 145.2 104.7 86.6

10m 20m 30m 60m 2h 6h

0.500 71.4 51.6 42.2 30.2 20.9 11.7 8.1

60.00 0.017 150.0 108.6 89.8 64.9 45.5 25.8 18.1 12.7

80.00 0.012 159.0 114.9 95.0 68.8 48.2 27.4 19.2 13.4 7.9

100.00 0.010 166.2 120.3 99.6 71.9 50.4 28.6 20.1 14.0 8.3

methods. Nevertheless, NIWA does not accept any fiability, whether direct, indirect or

0.200 90.0 64.5 53.2 38.2 26.5 14.9 10.4 7.2

59.8

62.6

In preparing this table, all reasonable skill and care was exercised using best available data &

Projected temperature change; 2.1° C Rainfall intensities (mm/h)

10.00 0.100 104.4 75.0

20.00 0.050 120.6 87.0

0.025

0.033 130.2 94.2

ARI (v) aep

2.00

5.00

30.00

40.00

50.00

Stormwater Catchment Data

Existing Site Area =

7432 m²

Existing runoff coeff

0.5

Rainfall Intensities mm/hr HIRDS

	ii iiiton	311.00	111111111111	- 111 (50			
Return		Durat	ion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	104.4	75.0	62.0	44.6	31.1	17.5	12.2
50	145.2	104.7	86.6	62.6	43.8	24.9	17.4
100	166.2	120.3	99.6	71.9	50.4	28.6	20.1

Revised runoff coeff Runoff coeff Total **Building Coverage** 6632 0.9 5969 Canopy 800 720 0.9 Parking roadway 0.45 0 0 wastewater 0.3 Balance 0 0.3 0 6689 Average runoff coeff = 0.9

Duration

62.0 44.6 31.1 17.5 12.2 8.5

78.0 56.4 39.5 22.5 15.7

41.9

43.8 24.9

71.6 51.7 36.1 20.4 14.3 10.0

23.8

12h 24h

17.4 12.2 7.2

10.8 7.5

72h

2.4

3.1

4.7 6.5

5.3

5.5

5.8

6.1

5.0 3.7

5.9 4.3

11.0

Existing Site Discharge (Q = CIA)

Return		Dura	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	107.8	77.4	64.0	46.0	32.1	18.1	12.6
50	149.9	108.1	89.4	64.6	45.2	25.7	18.0
100	171.6	124.2	102.8	74.2	52.0	29.5	20.7

Developed Site Discharge (Q = CIA) l/s

Return		Durat	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	194.0	139.4	115.2	82.9	57.8	32.5	22.7
50	269.8	194.5	160.9	116.3	81.4	46.3	32.3
100	308.8	223.5	185.1	133.6	93.6	53.1	37.3

Orifice Plate sizing

 $Q = cA (2gH)^{A_0.5}$

0.609

Orifice Plate diameter =

150 mm

Area =

0.018

Q @ max head =

83.93 l/s

(less than peak non developed flow)

Storage Required - m3- (inflow less outflow x storm duration

Return		Durat	tion (mir	nutes)			
Period	10	20	30	60	120	360	720
10	66.0	66.5	56.3	-4	-188	-1111	-2646.6
50	111.5	132.7	138.6	117	-18	-814	-2229.2
100	134.9	167.5	182.0	178.8	69.9	-665	-2012.5

USE 4 x PROMAX WATER TANK (50,000 LITRES) PLUMBED INTO SW DOWNPIPES (FROM HIGH LEVEL) WITH 100mm DIAMETER OUTLET TO SW DRAIN TANK TO BE NOMINALLY EMPTY AND TO FILL DURING RAINFALL EVENTS

Seeka Ltd Client:

Contract Name: Project Name:

153 Waipara Road Seeka Ltd - 153 Waipara Road, Kerikeri

Job No.:

638080

PRE DEVELOPMENT

New System: Area A

Event Intensity I [mm/h] 10yr - 10min 104.40 primary pipe system

10min

nlet Tag		Area AC			R.	n-off co	Run-off coefficient C		Run	Run-off Qci [m3/s]	[s]	[s/I]
'exist.'	Š.	[m2]	[ha]	Coef.	AH [m]	AL [m]	slope [%]	slope [%] Slope cor.	per Area	2nd Flow	total	
Area 1	-	15696	1.57	0.65	0.8	107.1	0.47	-0.05	0.273		0.273	273.110
Area 2	2	9620	96.0	0.85	9/0	1 (0)	0.47	-0.05	0.223		0.223	223.184
Area 3	3	5987	09.0	0.55	9/8	107.1	0.47	-0.05	0.087		0.087	86.812
Area 4	4	12070	1.21	0.20	9.0	107.1	0.47	-0.05	0.053		0.053	52,505
Area 5	2	23280	2.33	0.20	0/2	107.T	0.47	-0.05	0.101		0.101	101.268

736.878

Event Intensity I [mm/h] 100yr - 10mi 166.20 primary pipe system

Inlet Tag		Area AC			쟢	oo Ho-ni	Run-off coefficient C		Run-	Run-off Qci [m3/s]	[8]	[s/I]
'exist.'	No.	[m2]	[ha]	Coef.	AH (m)	AL INS	slope [%]	Slope cor.	per Area	2nd Flow	total	
Area 1	-	15696	1.57	0.65	0.5	107.1	0.47	-0.05	0.435		0.435	434.779
Area 2	2	9620	96.0	0.85	9/0	1.01	0.47	-0.05	0.355		0.355	355.299
Area 3	3	2987	09.0	0.55	0.6	11 201	0.47	-0.05	0.138		0.138	138.200
Area 4	4	12070	1.21	0.20	5.0	107 Y	0.47	-0.05	0.084		0.084	83.585
Area 5	2	23280	2.33	0.20	9/0	1 201	0.47	-0.05	0.161		0.161	161.214

1173.077

Client:

Seeka Ltd Contract Name: Project Name:

153 Waipara Road Seeka Ltd - 153 Waipara Road, Kerikeri

Job No.:

638080

POST DEVELOPMENT

New System: Area A

Event Intensity I [mm/h] 10yr - 10min 104.40 primary pipe system

10yr - 10min

									1	0		
Inlet Tag		Area AC			R	in-off co	Run-off coefficient C		Run-	Run-off Qci [m3/s]	[s]	[s/I]
'exist.'	ģ	[m2]	[ha]	Coef.	AH (m)	AL FREE	[%] adols	Slope cor.	per Area	2nd Flow	total	
Area 1	-	14645	1.46	0.65	9.0	107.1	0.47	-0.05	0.255		0.255	254 823
Area 2	2	9620	0.96	0.85	0.5	1.07.1	0.47	-0.05	0.223		0.223	223.184
Area 3	3	2030	0.20	0.55	9.0	1.07.1	0.47	-0.05	0.029		0.029	29.435
Area 4	4	10500	1.05	0.20	9.0	107.1	0.47	-0.05	0.046		0.046	45.675
Area 5	S.	22277	2.23	0.20	0.0	1.07.1	0.47	-0.05	0.097		0.097	96.905
Area 6	9	7432	0.74	0.95	0.0	107 1	0.47	-0.05	0.194		0.194	193.975

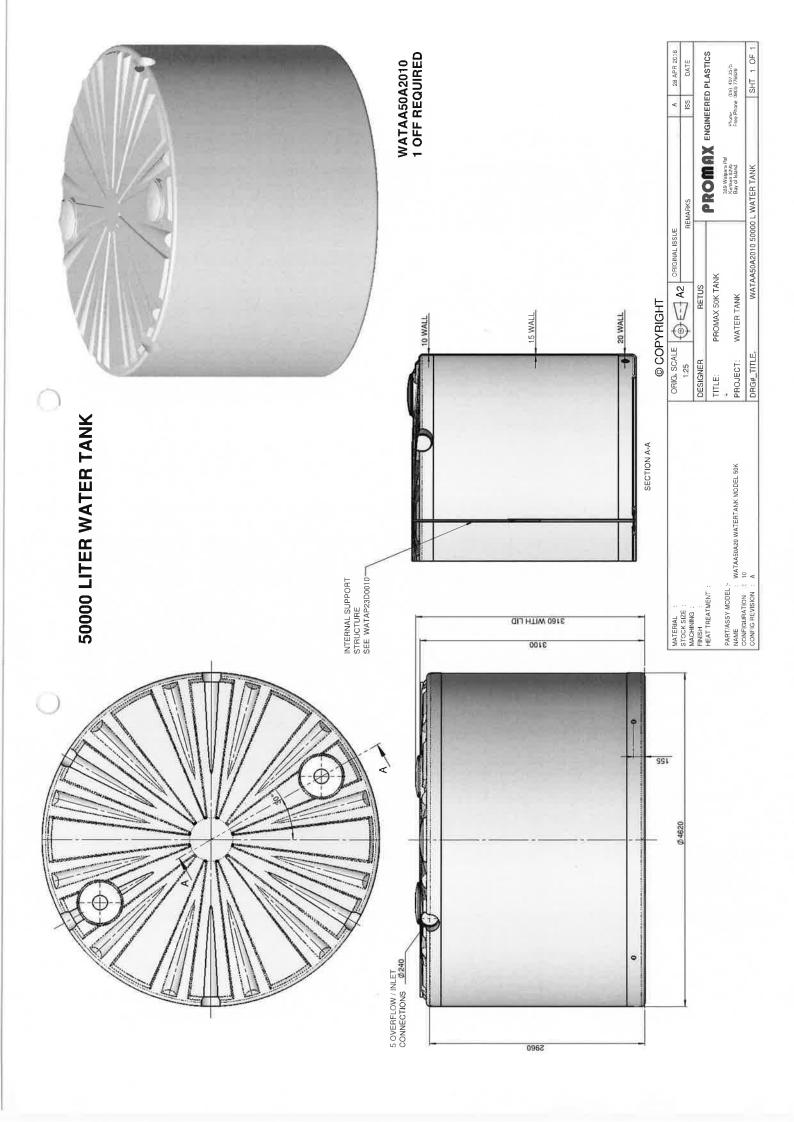
843.997

Event Intensity I [mm/h] 100yr - 10mi 166.20 primary pipe system

Inlet Tag		Area AC			æ	un-off co	Run-off coefficient C		Run-	Run-off Qci [m3/s]	[S]	[]/8]
'exist.'	Š	[m2]	[ha]	Coef	AH [m]	AL Im	[%] adols	Slope cor.	per Area	2nd Flow	total	
Area 1	1	14645	1.46	0.65	9.0	167.1	0.47	-0.05	0.406		0.406	405.667
Area 2	2	9620	96.0	0.85	9 9	1 701	0.47	-0.05	0.355		0.355	355.299
Area 3	3	2030	0.20	0.55	9.6	107.1	0.47	-0.05	0.047		0.047	46.859
Area 4	4	10500	1.05	0.20	9.0	107.1	0.47	-0.05	0.073		0.073	72.713
Area 5	S	22277	2.23	0.20	9'0	1.201	0.47	-0.05	0.154		0.154	154.268
Area 6	9	7432	0.74	0.95	9.9	107.1	0.47	-0.05	0.309		0.309	308 800

1343.605

Client SEEKA Kocikoci Project Title: Site Address: 153 WAIPARA Rd Kocikoci File Number: 638080		1, 12/10/18 AdP	Stratum CONSULTANTS Experience, Knowledge, Better Outcomes
TANK 50,000 Pec	OMAX TANI	4	
4.62	3.1	$A = TT \left(\frac{4}{2}\right)^2$ $= TT \left(\frac{4.62}{2}\right)^2$	
		= TT(2.31)	
10 Years 60min Stocm WITH 1000 ORIFICE :. 100 Year 68 min Stock	164m ³ 2.446 178 m ³ :. 2.651	÷4= 44.500l	6.764)
DIFF 208mm using 10	OO OR	FICE AT GRAND	
LEVEL AND 80\$ ORI	Fice 2.	446m LEVEL ABOU	he l
SIM.	5. Mr	AX LEVEL OF TA	JIC.



Client:

Seeka Ltd

Contract Name:

153 Waipara Road

Project Name:

Seeka Ltd - 153 Waipara Road, Kerikeri

Job No.:

638080

EXIST ROOF DEVELOPMENT POST DEVELOPMENT

New System: Area A

Event

Existing SW To North or Davacament

Intensity I [mm/h]

10yr - 10min 104.40 primary pipe system

10yr - 10min

Inlet Tag		Area AC	;		Rı	ın-off co	efficient C		Run-	off Qci [m3/	/s]	[l/s]
'exist.'	No.	[m2]	[ha]	Coef.	ΔH [m]	$\Delta L[m]$	slope [%]	Slope cor.	per Area	2nd Flow	total	
SWMH-C6	1	875	0.09	0.90	0,5	10.0	5.07	0	0.023		0.023	22.838
SWMH-C6-CP	1	306	0.03	0.85	0.5	107.1	0.47	-0.05	0.007		0.007	7.099
SWMH-C5	2	880	0.09	0.85	0.5	107.1	0.47	-0.05	0.020		0.020	20.416
SWMH-C5-CP	2	538	0.05	0.90	0.5	10.0	5.07	0	0.014		0.014	14.042
SWMH-C4	3	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.014		0.014	14.454
SWMH-C3	4	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.014		0.014	14.454
SWMH-C2-CP	4	145	0.01	0.90	0.5	10.0	5.07	0	0.004		0.004	3.785
SWMH-C2	5	365	0.04	0.85	0.5	107.1	0.47	-0.05	0.008		0.008	8.468
CP-2	6	1075	0.11	0.85	0.5	107_1	0.47	-0.05	0.025		0.025	24.940
11.84												

SWMH-A2 5 2000 0.20 0.95 5.07 0 0.055 0.055 55.100 30.469 CP-1 5 1313 0.13 0.85 0.51 -0.05 0.030 0.030

105.554

Event

Intensity I [mm/h]

Inlet Tag		Area AC			Rı	un-off co	efficient C		Run-	off Qci [m3	/s]	[l/s]
'exist.'	No.	[m2]	[ha]	Coef.	ΔH [m]	ΔL [m]	slope [%]	Slope cor.	per Area	2nd Flow	total	
SWMH-C6	1	875	0.09	0.90	0.5	107.1	0.47	-0.05	0.034		0.034	34.336
SWMH-C6-CP	1	306	0.03	0.85	0.5	107.1	0.47	-0.05	0.011		0.011	11.302
SWMH-C5	2	880	0.09	0.85	0.5	107.1	0.47	-0.05	0.033		0.033	32.501
SWMH-C5-CP	2	538	0.05	0.90	0.5	107.1	0.47	-0.05	0.021		0.021	21.112
SWMH-C4	3	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.023		0.023	23.009
SWMH-C3	3	623	0.06	0.85	0.5	107.1	0.47	-0.05	0.023		0.023	23.009
SWMH-C2-CP	3	145	0.01	0.90	0.5	107-1	0.47	-0.05	0.006		0.006	5.690
SWMH-C2	4	365	0.04	0.45	0.5	107.1	0.47	-0.05	0.007		0.007	6.740
CP-2	5	1075	0.11	0.45	0.5	107.1	0.47	-0.05	0.020		0.020	19.852
SWMH-A2	5	2000	0.20	0.95	0.5	107.1	0.47	-0.05	0.083		0.083	83.100
CP-1	5	1313	0.13	0.45	0.5	107.1	0.47	-0.05	0.024		0.024	24.252

Eximina

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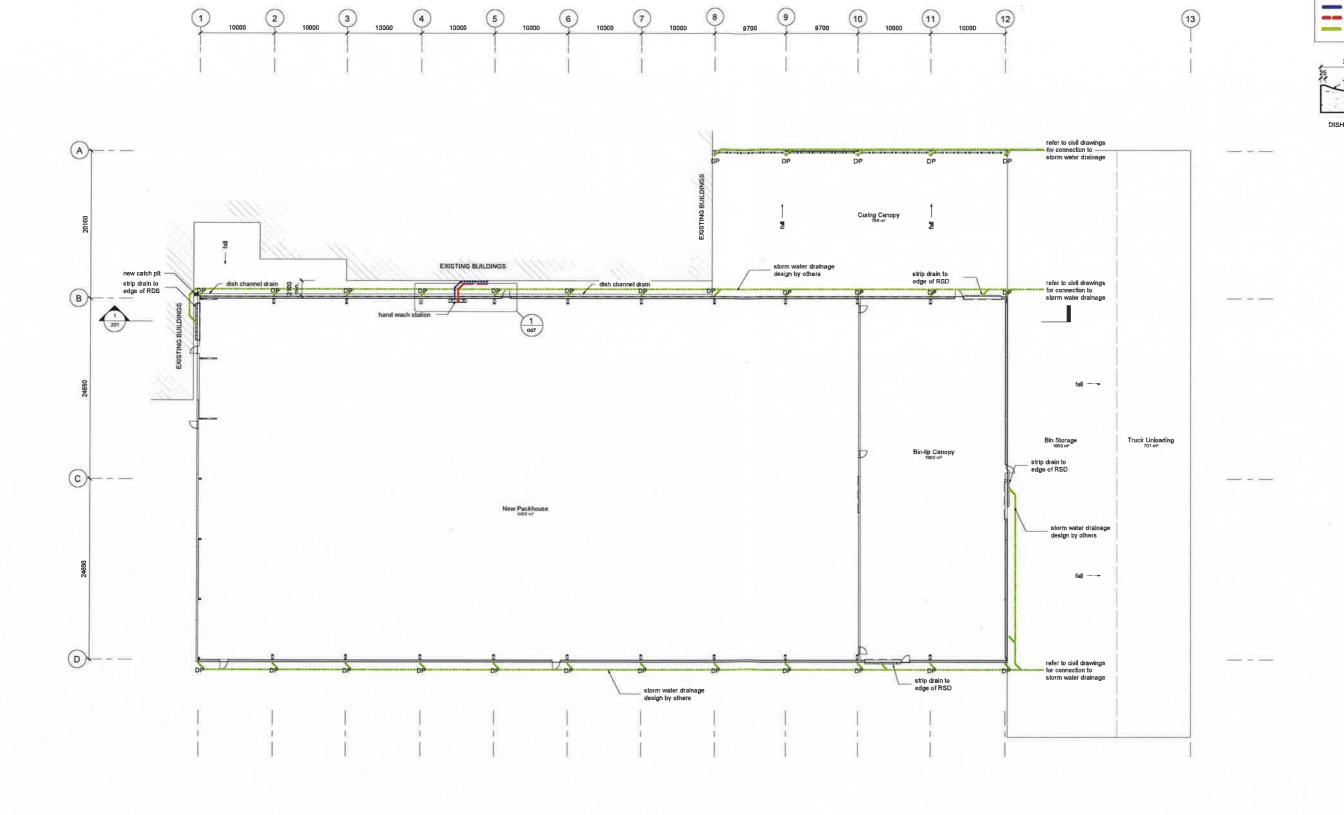
Div. ID	ND Ø	OD Ø	ID Ø	t		Rough- ness			UpStre	am			DownSt	tream		Grade					Pipe 0	Capacity		Sys	tem Capa	acity
Pipe ID	[mm]	[mm]	[mm]	[mm]	Material	Coeff. n [-]	Length	Tag	Lid Level [m]	Invert [m]	Cover [m]	Tag	Lid Level [m]	Invert [m]	Cover [m]	[%]	Q _{INLET} [l/s]	Q _{INLET} [m ³ /s]	Q _{Sum} [m ³ /s]	A [m²]	R [m]	Q _{Pi} [m ³ /s]	Q _{OverFlow} [m ³ /s]	Q _{PI} [m ³ /s]	Pipefill [%]	v _{100%} [m/s]
153 Waipara Road 10min / 10 Year New Pipeline	Danilla	i biwasta:	es for Rec						1																	

Chismus

	Line C		3010/11-11			14102111-1																				
3N [SWMH C6-C5	300	367	302	33	RCRRJ	0.015	31.63	SWMH-C6	63.72	63.09	0.296	SWMH-C5	63.65	62.90	0.416	0.60	29.94	0.0299	0.030	0.072	0.076	0.0661	0.066	45	0.92
	SWMH C5-C4	375	444	380	32	RCRRJ	0.015	30.21	SWMH-C5	63.65	62.88	0,358	SWMH-C4	63.61	62.72	0.478	0.53	34.46	0.0345	0.064	0.113	0.095	0.1146	0.115	56	1.01
	SWMH C4-C3	375	444	380	32	RCRRJ	0.015	28.57	SWMH-C4	63.61	62.70	0.498	SWMH-C3	63.50	62.54	0.548	0.56	14.45	0.0145	0.079	0.113	0.095	0.1178	0.118	67	1.04
	SWMH C3-C2	375	444	380	32	RCRRJ	0.015	38.18	SWMH-C3	63.50	62.54	0.548	SWMH-C2	62.89	62.20	0,278	0.89	18.24	0.0182	0.097	0.113	0.095	0.1485	0.149	65	1.31
[SWMH C2-A1	375	444	380	32	RCRRJ	0.015	50.08	SWMH-C2	62.89	62.18	0.298	SWOUT-C1	62.89	61.25	1,228	1.86	24.94	0.0249	0.122	0.113	0.095	0.2145	0.215	57	1.89
	Line A																									
] 4	SWMH A2-A1	300	367	302	33	RCRRJ	0.003	30.6	SWMH-A2	63.49	61.36	1.796	SWMH-A1	63.23	61.21	1.686	0.49	85.57	0.0856	0.086	0.072	0.076	0.2986	0.299	29	4.17
۲Г	SWMH A1-OUTLET	375	444	380	32	RCRR.I	0.003	19 39	SWMH-A1	63 23	61 18	1.638	SW-OUTLET	62 09	61.08	n 598	0.52	146 97	0.1470	0.355	0.113	0.095	0.5652	0.565	63	4 98

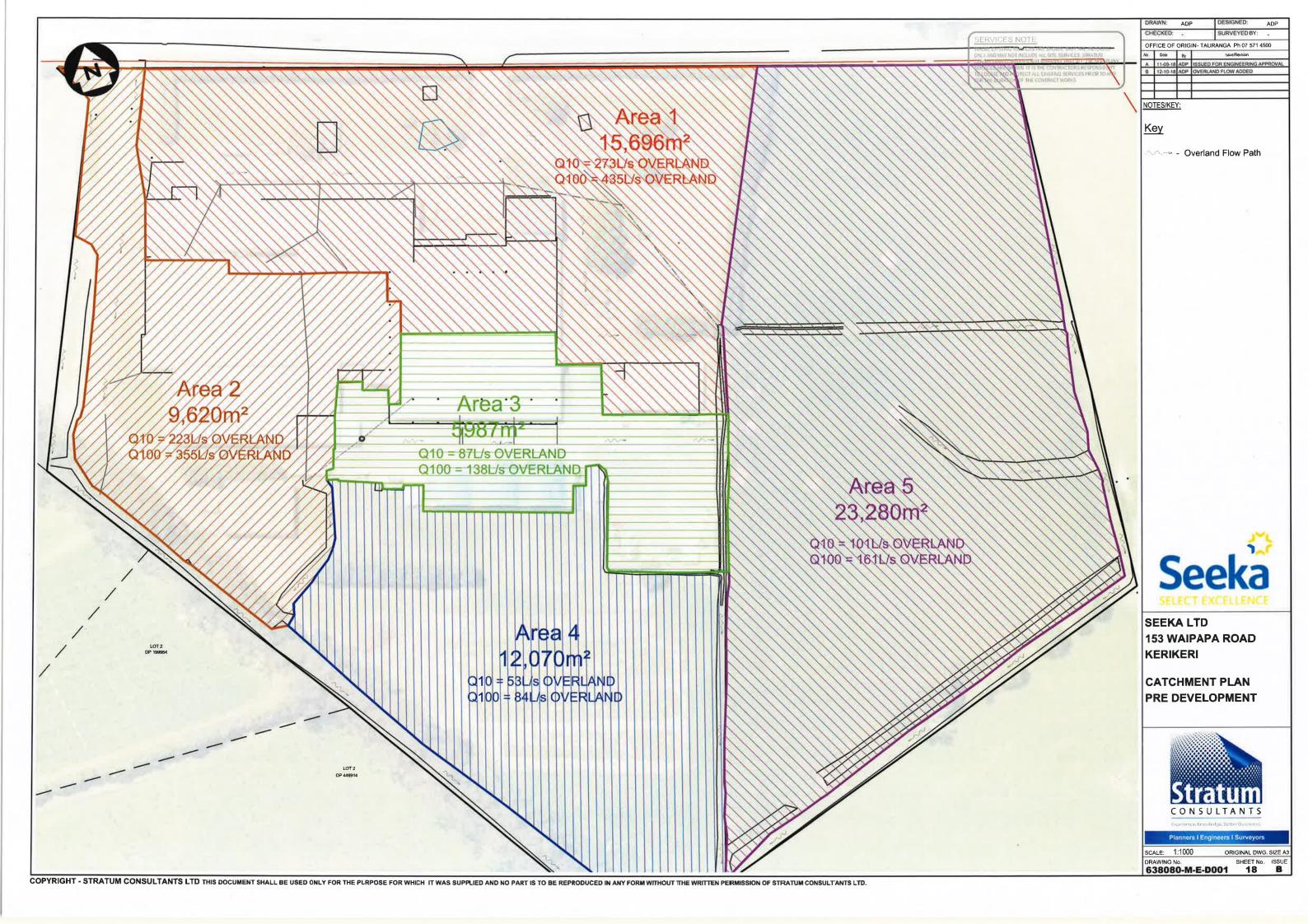
153 Waipara Road 10min / 100 Year

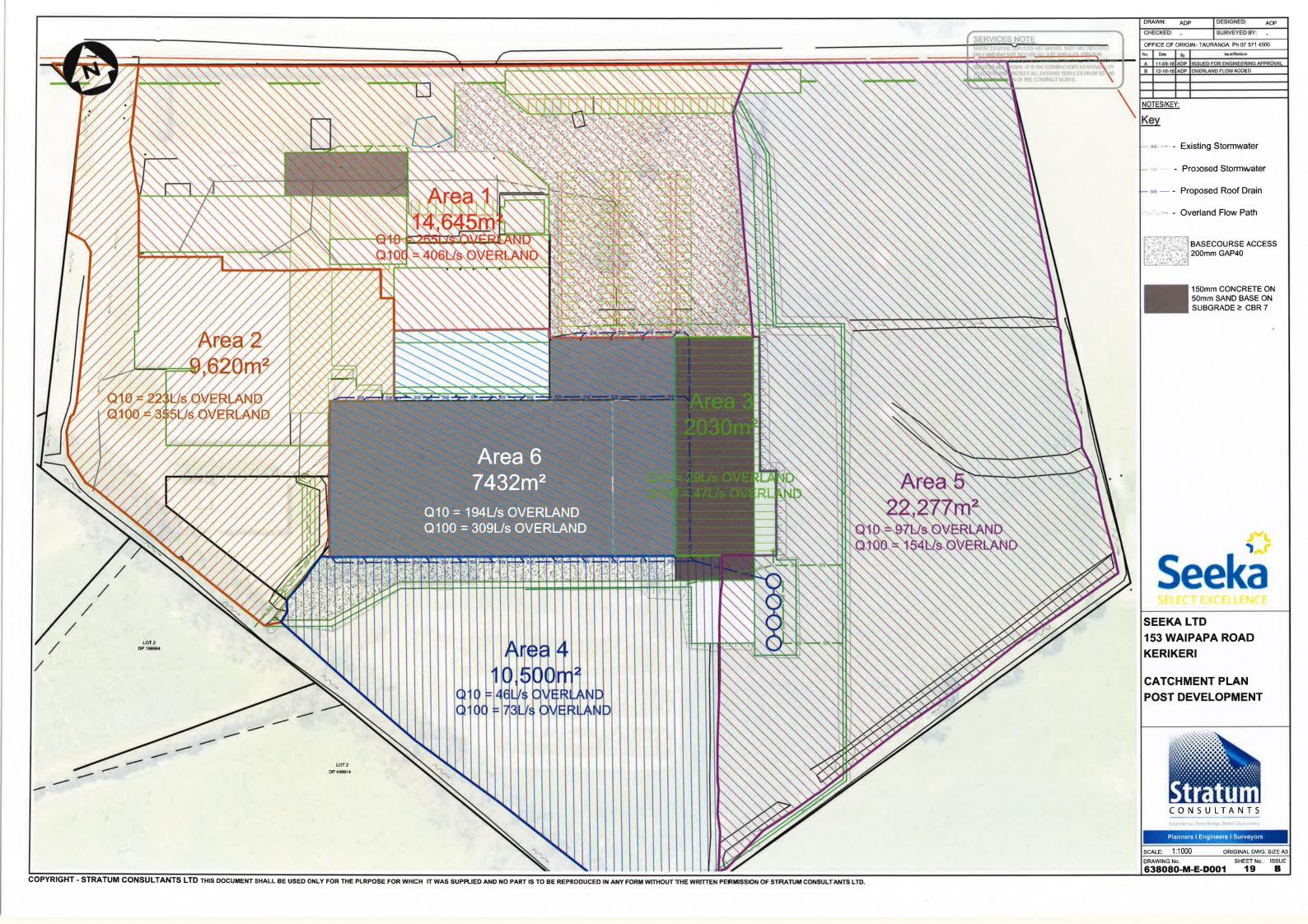
	New Pipeline	Required	pipesize	es for Req	uired cate	chpits																					
3.72	Line C																										
N.	SWMH C6-C5	300	367	302	33	RCRRJ	0.015	31.63	SWMH-C6	63.72	63.09	0.296	SWMH-C5	63.65	62.90	0.416	0.60	45.64	0.0456	0.046	0.072	0.076	0.0661		0.066	69	0.92
13	SWMH C5-C4	375	444	380	32	RCRRJ	0.015	30.21	SWMH-C5	63.65	62.88	0.358	SWMH-C4	63.61	62.72	0.478	0.53	53.61	0.0536	0.099	0.113	0,095	0.1146		0.115	87	1.01
8	SWMH C4-C3	375	444	380	32	RCRRJ	0.015	28.57	SWMH-C4	63.61	62.70	0.498	SWMH-C3	63.50	62.54	0.548	0.56	23.01	0.0230	0.122	0.113	0.095	0.1178	0.0045	0.118	104	1.04
K [SWMH C3-C2	375	444	380	32	RCRRJ	0.015	38.18	SWMH-C3	63.50	62.54	0.548	SWMH-C2	62.89	62.20	0.278	0.89	28.70	0.0287	0.151	0.113	0.095	0.1485	0.0024	0.149	102	1.31
,	SWMH C2-A1	375	444	380	32	RCRRJ	0.015	50.08	SWMH-C2	62.89	62.18	0.298	SWOUT-C1	62.89	61.25	1.228	1.86	33.41	0.0334	0.184	0.113	0.095	0.2145		0.215	86	1.89
\	Line A																										
9 [SWMH A2-A1	300	367	302	33	RCRRJ	0.003	30.6	SWMH-A2	63.49	61.36	1.796	SWMH-A1	63.23	61.21	1.686	0.49	107.35	0.1074	0.107	0.072	0.076	0.2986		0.299	36	4.17
• [SWMH A1-OUTLET	375	444	380	32	RCRRJ	0.003	19.39	SWMH-A1	63.23	61.18	1.638	SW-OUTLET	62.09	61.08	0.598	0.52	204.22	0.2042	0.496	0.113	0.095	0.5652		0.565	88	4.98

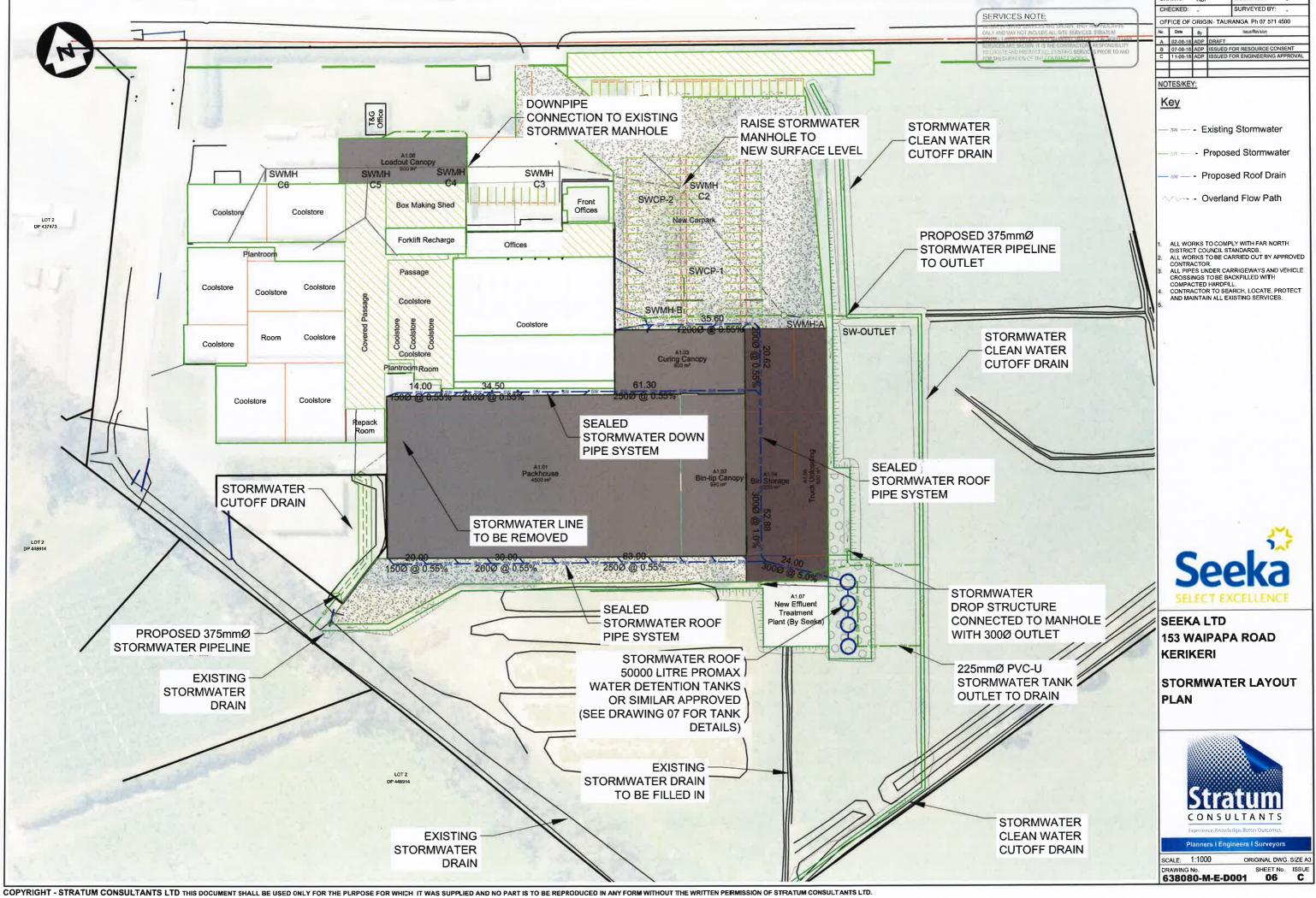


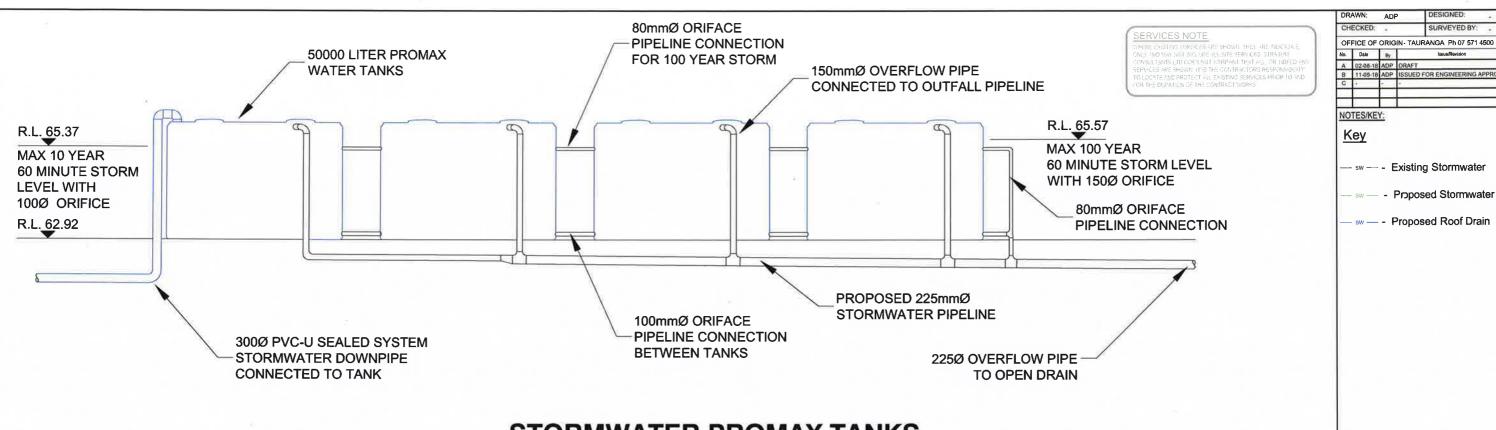
Amenities and Drainage Plan Schematic - Zone 1





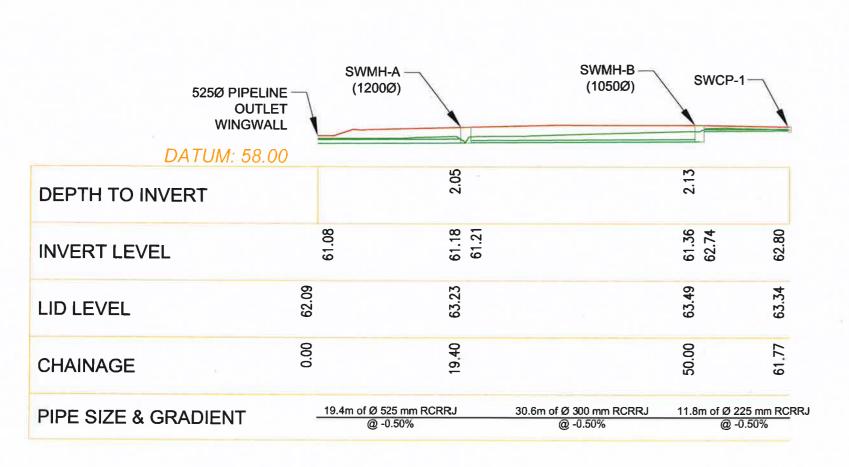


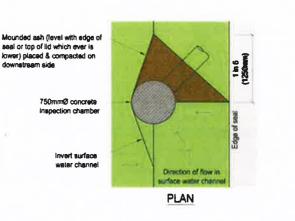


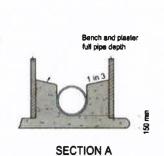


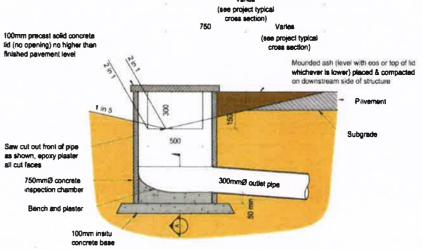
STORMWATER PROMAX TANKS

SCALE 1:100 (HORIZ & VERT)









STORMWATER LONGSECTION

SCALE 1:500 (HORIZ & VERT)

STORMWATER DROP STRUCTURE



sw — - Existing Stormwater

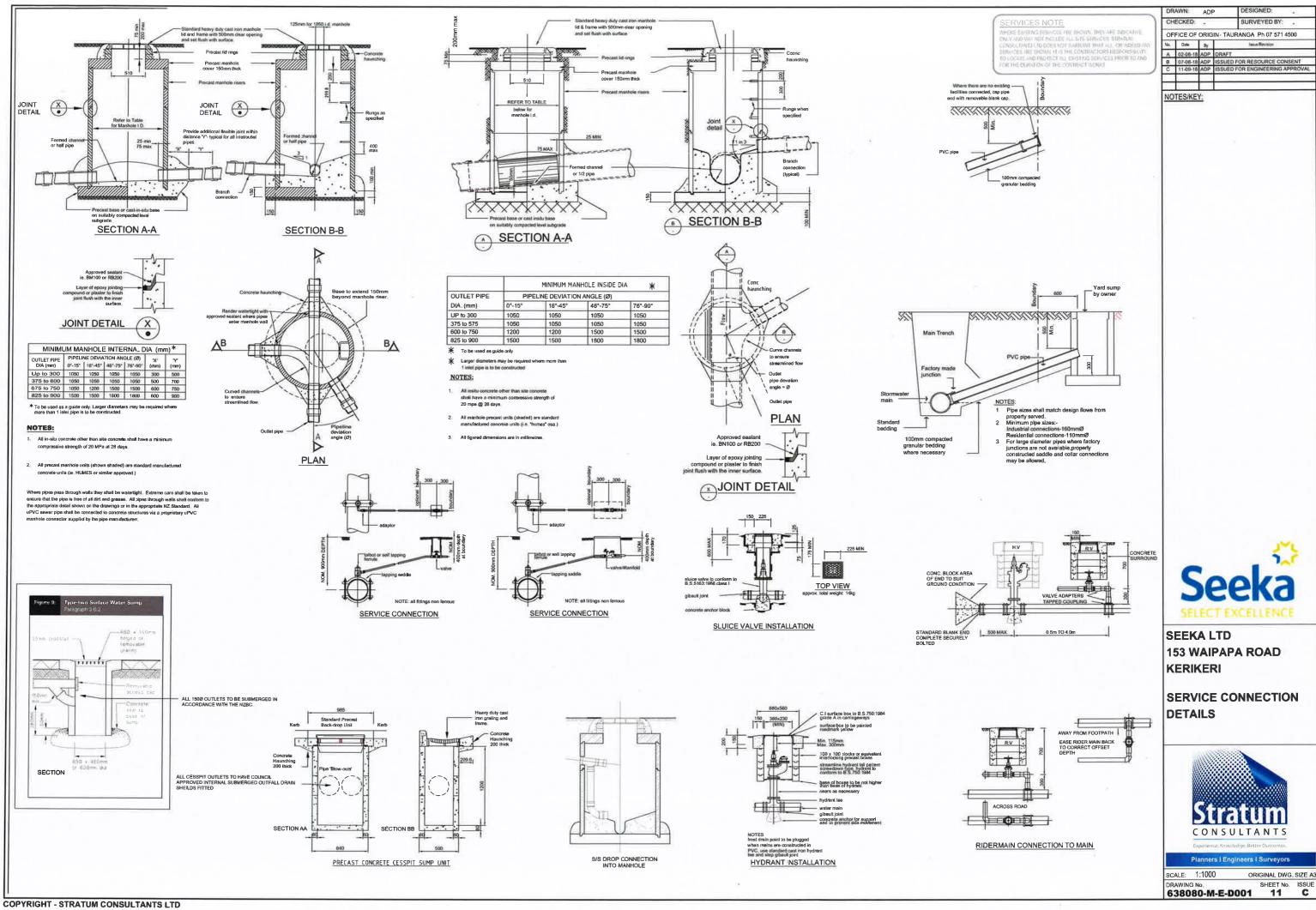
Proposed Stormwater

- Proposed Roof Drain

SEEKA LTD 153 WAIPAPA ROAD KERIKERI

STORMWATER DETAILS





SURVEYED BY

ORIGINAL DWG. SIZE AS







Building Code Clause(s).....B1 / B2....

PRODUCER STATEMENT - PS1 - DESIGN

(Guidance notes on the use of this form are printed on page 2)

ISSUED BY:	STRATUM CONSULTANTS LTD(Design Firm)
TO:	(Owner/Developer)
TO BE SUPPLIED TO:	FAR NORTH DISTRICT COUNCIL
IN RESPECT OF:	STORMWATER DESIGN WORKS(Description of Building Work)
	153 WAIPAPA ROAD, KERIKERI
services in respect of the requirer	C
Clause(s)E1	in the attachment to this statement), of the proposed building work.
The design carried out by us has	peen prepared in accordance with:
	by the Ministry of Business, Innovation & EmploymentE1 / VM 1or (verification method / acceptable solution)
☐ Alternative solution as per the	attached schedule
The proposed building work cover	ed by this producer statement is described on the drawings titled
together with the specification, an On behalf of the Design Firm, a (i) Site verification of the following	·
other documents provided or liste and that b), the persons who have following level of construction more	s that a) the building, if constructed in accordance with the drawings, specifications, and d in the attached schedule, will comply with the relevant provisions of the Building Code undertaken the design have the necessary competency to do so. I also recommend the hitoring/observation: [CM5 (Engineering Categories) or as per agreement with owner/developer (Architectural)
I,STEPHEN BOS(Name of Design Professional)	am: ⊠CPEng#
	□Reg Arch#
	NZIA and hold the following qualifications:NZCE, BE, MIPENZ, CPEng ment holds a current policy of Professional Indemnity Insurance no less than \$200,000*. ICENZ:
SIGNED BYSTEPHEN I	BOS ON BEHALF OFSTRATUM CONSULTANTS LTD (Design Firm)
Firm only. The total maximum amount of	(signature)

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, IPENZ AND NZIA



12 June 2025

Seeka Ltd PO Box 47 Te Puke, 3153

Geotechnical Plan Review of Proposed Stage 1B Canopy Extension and Packaging Lean-to 153 Waipapa Road, Kerikeri

1. Introduction

Stratum Consultants Ltd (Stratum) has been engaged by Seeka Ltd to carry out a geotechnical plan review in relation to the building consent application for the proposed Stage 1B bin curing canopy extension and future packaging lean-to at Seeka Kerikeri, 153 Waipapa Road, Kerikeri, legally described as Lot 3 DP 196433.

This plan review is based on the existing information from the most relevant geotechnical assessment report (GAR) and geotechnical completion report (GCR), as referenced below.

2. Proposed Development

The following documents were reviewed as part of the geotechnical plan review:

- GAR: Geotechnical Assessment Report. Proposed Packhouse, Coolstore and Curing Canopy. 153
 Waipapa Road, Kerikeri. Report prepared by Stratum for Seeka Ltd. Dated 11 September 2018.
 Reference 638080-M-E-C005.
- GCR: Geotechnical Completion Report. Stage 1 Ground Works. 153 Waipapa Road, Kerikeri. Report prepared by Stratum for Seeka Ltd. Dated 2 May 2020. Reference 638080-M-E-C007.
- Structural building plans for resource consent prepared by BCD Group Ltd, "Seeka Stage 1B –
 Packhouse Canopy Extension" Ref: 25-0030, Dated 6 June 2025, 9 pages.
- Structural building plans for building consent prepared by BCD Group Ltd, "Seeka Stage 1B –
 Packhouse Canopy Extension" Ref: 25-0030, Dated 6 June 2025, 25 pages.

The proposed development involves constructing the Stage 1B bin curing canopy extension to the east and a packaging lean-to canopy to the south of the existing Seeka packhouse located at 153 Waipapa Road, Kerikeri. The proposed canopy extension will extend approximately 20m eastward off the existing bin tip canopy and curing canopy. The proposed packaging lean-to is to be attached to the southern end of the existing bin tip and curing canopy and extend approximately 11.5m to the south. The canopy extension and lean-to will cover approximately 1,440m² and 436m² respectively.

The foundations for the eastward canopy extension will consist of eight concrete pad footings measuring 2m by 2m and 0.5m deep. A new foundation beam will also be required which will be cut 0.6m wide and 0.5m in depth. The foundations for the packaging lean-to are expected to consist of strip footings.

No design bearing capacity for the foundations or soil parameters were given on the structural plans available to us. It is assumed that the foundations have been designed for 'good ground' using a geotechnical ultimate bearing capacity of 300kPa (100kPa allowable bearing capacity).

3. Previous Reports

The GAR found that the ground conditions typically allowed the use of shallow foundations utilising a bearing capacity of 300kPa (100kPa allowable bearing capacity) after removal of any uncontrolled filling. Earthworks were completed and documented in the GCR which included the area of the proposed canopy extension. The platform in this area has been prepared by undercutting any weak natural silts or uncontrolled filling and backfilling with hardfill and a layer of Duragrid 30/30 geogrid. At completion of the earthworks the building platform was certified as suitable for foundations utilising a bearing capacity of 300kPa (100kPa allowable bearing capacity).

Earthworks have also been completed within the area of the packaging lean-to to the south and therefore the recommendations in the GCR are relevant for the lean-to also. It is understood that the proposed lean-to extends up to 11.5m south of the existing structure. The attached as-built plans indicate that the previous site preparation earthworks extended across the majority of the proposed lean-to except for the south-eastern corner. Site records indicate that geo-grid has only been placed in the western part of the proposed lean-to.

If the lean-to extends outside the previously earthworked area further earthworks will have to be completed to match. We expect geogrid may be required to be placed across the eastern portion of the lean-to to create consistency across all foundations. For any part of the building platform that has not yet been subject to ground improvements, undercuts would be required with geocloth and geogrid to match the existing works completed as detailed in the GCR.

Any earthworks required should follow the recommendations in the GAR.

The subgrade of the building platform is to be inspected by a suitably qualified engineer to verify the ground conditions, prior to constructing the foundations or backfilling.

4. Geotechnical Plan Review

Based on the GAR and GCR discussed above in Section 3 we expect the proposed Stage 1B canopy extension will found within a previously prepared earthworked platform which has been certified within the GCR. The prepared fill platforms located under both the Stage 1B bin curing canopy extension and packaging lean-to are suitable to provide a geotechnical ultimate bearing capacity of 300kPa (100kPa allowable bearing capacity). As the canopy extension to the east is being

constructed within an earthworked platform which has already been certified no construction monitoring is required for this area.

Based on our understanding of the site the packaging lean-to structure will generally found within a prepared platform. For any area outside of the prepared platform it is expected that any earthworks will include a layer of geocloth and geogrid as per the works completed as part of the prepared platform in the GCR. This will prevent differential settlements across the building.

Geotechnical testing and construction monitoring should be undertaken during excavation of the foundations for the packaging lean-to to the south to verify the extent of the previous ground improvements and ensure the site conditions are suitable for the proposed foundations. Any uncontrolled fill or other unsuitable material is to be removed and replaced with engineered fill. Foundations for the proposed Stage 1B bin curing canopy and packaging lean-to should not extend past 0.5m depth to align with the GAR requirements.

The building platform subgrade for the proposed Stage 1B canopy extension and packaging leanto is expected have a geotechnical ultimate bearing capacity of at least 300kPa (100kPa allowable bearing capacity).

Stormwater flows for both the Stage 1B canopy extension and packaging lean-to are expected to be directed into a stormwater detention tank system, which is considered geotechnically suitable.

5. Conclusions

The site conditions in the area of the proposed Stage 1B canopy extension and future packaging lean-to are expected to be consistent with the referenced GAR and GCR. The recommendations given in the existing reports are considered to be applicable for the canopy and lean-to extensions.

Overall, the provided design for the Stage 1B canopy extension and future packaging lean-to is considered to be suitable to address the geotechnical restrictions of the site provided the recommendations in the GCR and GAR are adhered to. Geotechnical testing and inspections should be completed to confirm the ground conditions within any areas which have not been previously earthworked and certified in the GCR.

6. Limitations

This report has been prepared for the sole benefit of Seeka Ltd for the proposed Stage 1B canopy extension and future packaging lean-to at 153 Waipapa Road, Kerikeri. It is not to be relied upon or used out of context by any other person without reference to Stratum Consultants Ltd. The reliance by other parties on the information or opinions contained in the report shall, without prior review and agreement in writing, be at such party's sole risk.

Yours faithfully

Stratum Consultants Ltd

Prepared by:

Thomas Stemmer

Engineering Geologist

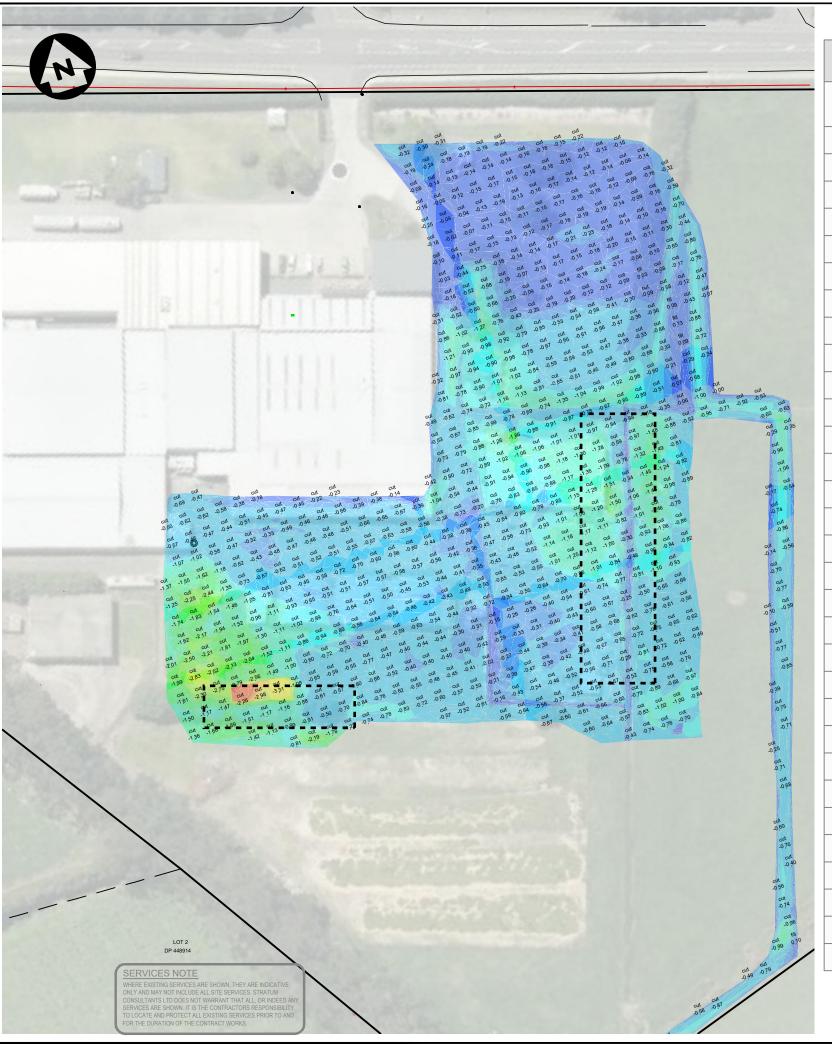
encl. Selected plans.

Reviewed and Approved by:

Elles Pearse-Danker

Elles PD

CPEng Geotechnical Engineer



		Cut Fill Bai	nding Details		
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)	2D Area (m²)	Volume (m³)
1		-5.000	-4.800	0.0	0.0
2		-4.800	-4.600	0.0	0.0
3		-4.600	-4.400	2.6	0.1
4		-4.400	-4.200	11.0	1.8
5		-4.200	-4.000	8.5	3.5
6		-4.000	-3.800	5.9	5.1
7		-3.800	-3.600	4.4	6.0
8		-3.600	-3.400	5.1	6.9
9		-3.400	-3.200	33.0	10.6
10		-3.200	-3.000	12.2	15.8
11		-3.000	-2.800	17.7	17.3
12		-2.800	-2.600	53.0	25.5
13		-2.600	-2.400	50.1	34.9
14		-2.400	-2.200	70.6	46.9
15		-2.200	-2.000	135.6	66.9
16		-2.000	-1.800	191.3	102.0
17		-1.800	-1.600	196.3	139.4
18		-1.600	-1.400	346.0	191.7
19		-1.400	-1.200	625.5	282.4
20		-1.200	-1.000	1074.7	451.2
21		-1.000	-0.800	1972.9	748.8
22		-0.800	-0.600	3334.1	1275.2
23		-0.600	-0.400	3840.9	2025.8
24		-0.400	-0.200	1946.0	2607.7
25		-0.200	0.000	2732.1	3152.4
26		0.000	0.200	147.2	10.6
27		0.200	0.400	3.6	0.8
28		0.400	0.600	1.2	0.4
29		0.600	0.800	0.9	0.2
30		0.800	1.000	0.7	0.1
31		1.000	1.200	0.0	0.0

	DR	AWN:	ADF	DESIGNED: _
	CHI	ECKED:	-	SURVEYED BY:
_	OFI	FICE OF	ORIGI	IN - TAURANGA Ph 07 571 4500
	No.	Date	Ву	Issue/Revision
	Α	02-0818	ADP	DRAFT
	В	07-08-18	ADP	ISSUED FOR RESOURCE CONSENT
	С	03-09-18	ADP	BUILDING UPDATE CHANGES
	D	20-05-20	ADP	FINAL UNDERCUT LEVELS

NOTES/KEY:

Cut Volume Undercut Base Surface to Natural Surface - Unsuitable Material Removed

Cut - 11,218.00m³ (SOLID VOLUME) Area - 16822.92m²

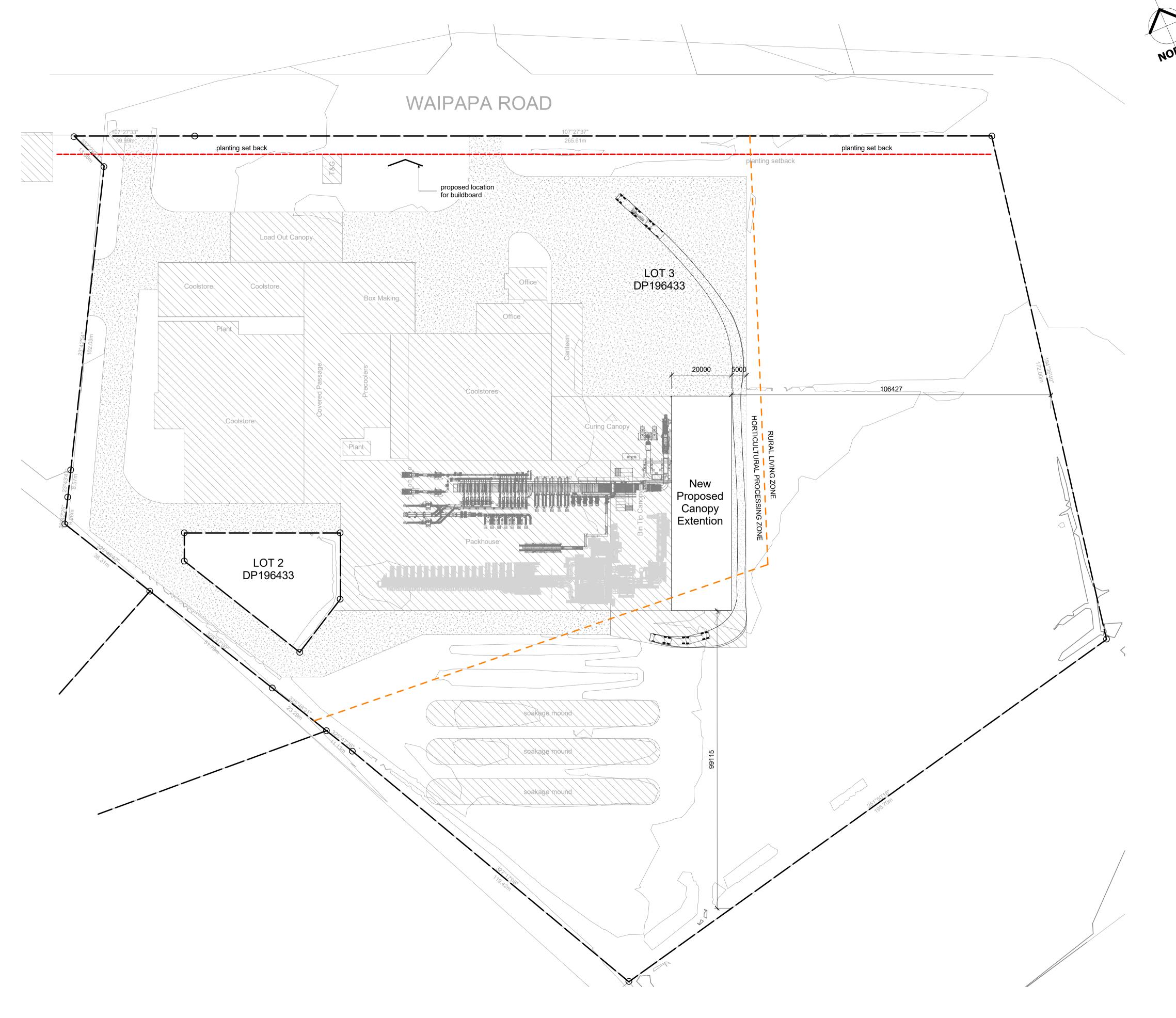


SEEKA LTD 153 WAIPAPA ROAD KERIKERI

CUT FILL PLAN 3 METERS OUTSIDE NEW **BUILDING PLATFORM**



DRAWING No. SHEET No. **638080-M-E-D001 T01**



Site Information & Requirements

Street Address: 153 Waipapa Road, Kerikeri

DP & Lot Number: DP 196433, Lot 3

Local Council: Far North District Council

Zone: Horticulural Processing / Rural Living Zone

Site Area: 68,752m²

Zone Information: EQ Zone: Zone 1 Wind Zone: H Corrosion Zone: Zone c

Notes:

- Site boundaries/ levels nominal and subject

- to survey.
 Easements not shown.
 Dimensions approximate and subject to confirmation.
 Structure and grid setout indicative only and subject to calculation.
 Stormwater detention/ soakage/ treatment/ discharge not yet checked.

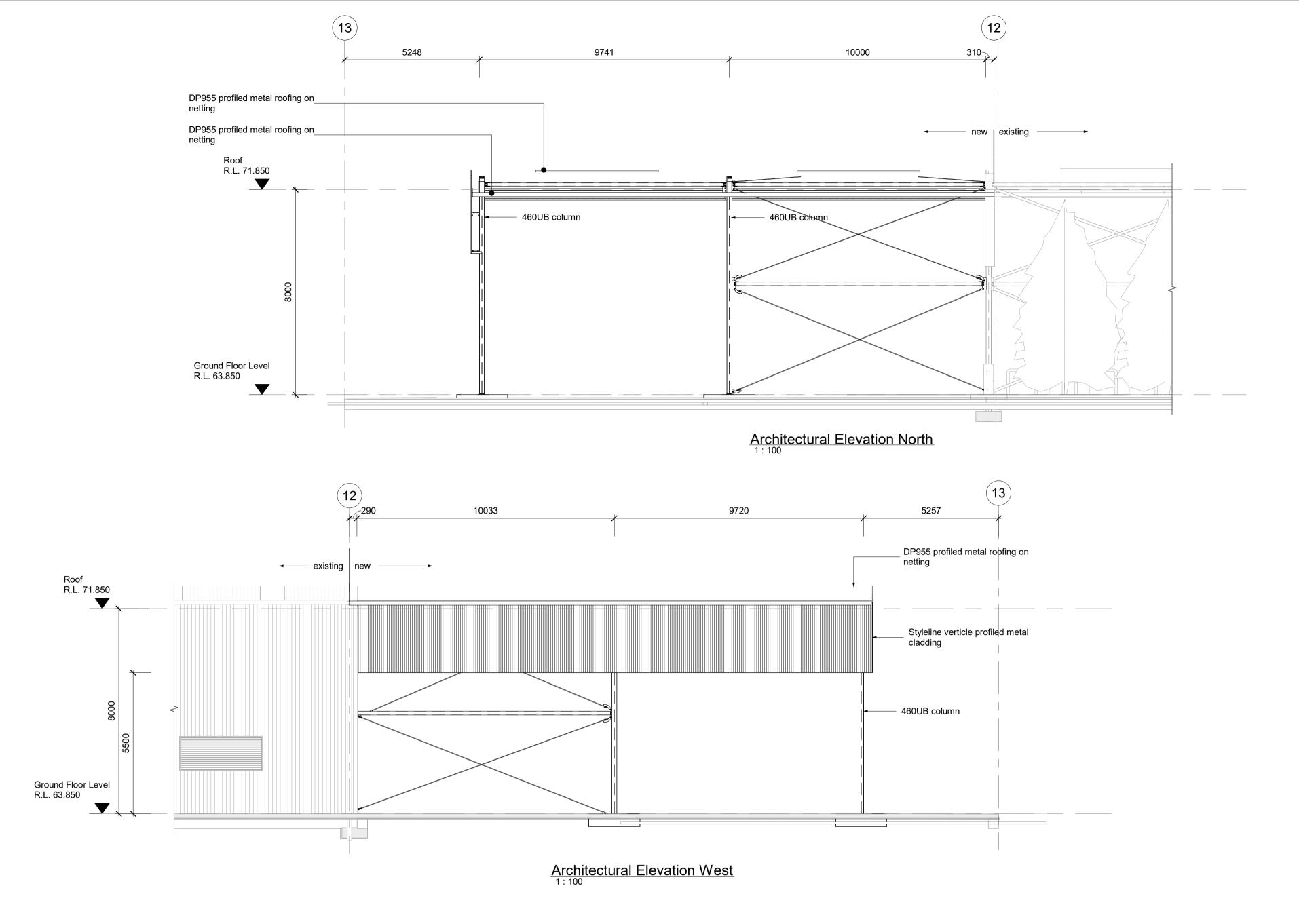
Resource Consent not expected/ expected.

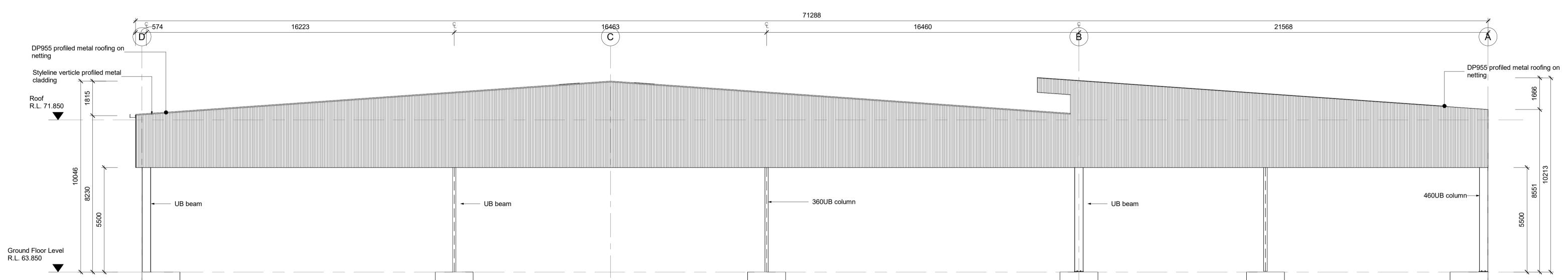
all dimensions to be verified on site before making any shop drawings or commencing any work.





PROPOSED SITE PLAN
SEEKA STAGE 1B - PACKHOUSE CANOPY EXTENSION
153 WAIPAPA ROAD, KERIKERI





Architectural Elevation East



form



EXTERIO	R ELEVATIONS
Project Title SEEKA S	TAGE 1B - PACKHOUSE CANOPY EXTENSION
153 WAIPAPA ROA	AD, KERIKERI

				Drawn: MT	Scale: 1 : 100	at A1
				Reviewer: SJ		
				Job No:	Sheet No:	Revision
3	06-06-2025	MT	FOR BUILDING CONSENT			
2	23-05-2025	MT	FOR INFORMATION	25-0030	A-200	2
1	06-02-2025	MT	FOR INFORMATION	23-0030	A-200	J
Rev	Date	by	Reason			
the considerable of this description was in a 1th DOD Constraint.						