

Application for resource consent or fast-track resource consent

(Or Associated Consent Pursuant to the Resource Management Act 1991 (RMA)) (If applying for a Resource Consent pursuant to Section 87AAC or 88 of the RMA, this form can be used to satisfy the requirements of Schedule 4). Prior to, and during, completion of this application form, please refer to Resource Consent Guidance Notes and Schedule of Fees and Charges — [both available on the Council's web page](#).

1. Pre-Lodgement Meeting

Have you met with a council Resource Consent representative to discuss this application prior to lodgement? ☒ Yes ☐ No

2. Type of Consent being applied for

(more than one circle can be ticked):

- | | |
|---|---|
| ☒ Land Use | ☐ Discharge |
| ☐ Fast Track Land Use* | ☐ Change of Consent Notice (s.221(3)) |
| ☐ Subdivision | ☐ Extension of time (s.125) |
| ☐ Consent under National Environmental Standard
(e.g. Assessing and Managing Contaminants in Soil) | |
| ☐ Other (please specify) _____ | |

* The fast track is for simple land use consents and is restricted to consents with a controlled activity status.

3. Would you like to opt out of the Fast Track Process?

☒ Yes ☐ No

4. Consultation

Have you consulted with Iwi/Hapū? ☐ Yes ☒ No

If yes, which groups have you consulted with?

Who else have you consulted with?

For any questions or information regarding iwi/hapū consultation, please contact Te Hono at Far North District Council tehonosupport@fndc.govt.nz

5. Applicant Details

Name/s:

Kay Davis Deputy Chair Te Ruapekapeka Trust

Email:

Phone number:

Postal address:

(or alternative method of service under section 352 of the act)

6. Address for Correspondence

Name and address for service and correspondence (if using an Agent write their details here)

Name/s:

Barker & Associates C/o Makarena Dalton

Email:

Phone number:

Postal address:

(or alternative method of service under section 352 of the act)

** All correspondence will be sent by email in the first instance. Please advise us if you would prefer an alternative means of communication.*

7. Details of Property Owner/s and Occupier/s

Name and Address of the Owner/Occupiers of the land to which this application relates (where there are multiple owners or occupiers please list on a separate sheet if required)

Name/s:

Leslie & Sandra Wallace

**Property Address/
Location:**

28 Ruapekapeka Road, Towai

Postcode

0182

8. Application Site Details

Location and/or property street address of the proposed activity:

Name/s:

Leslie & Sandra Wallace

**Site Address/
Location:**

28 Ruapekapeka Road, Towai

Postcode 0182

Legal Description:

Part Section 9-10 Block V H

Val Number:

Certificate of title:

NA1072/266

Please remember to attach a copy of your Certificate of Title to the application, along with relevant consent notices and/or easements and encumbrances (search copy must be less than 6 months old)

Site visit requirements:

Is there a locked gate or security system restricting access by Council staff? ☐ Yes ☒ No

Is there a dog on the property? ☐ Yes ☒ No

Please provide details of any other entry restrictions that Council staff should be aware of, e.g. health and safety, caretaker's details. This is important to avoid a wasted trip and having to re-arrange a second visit.

9. Description of the Proposal:

Please enter a brief description of the proposal here. Please refer to Chapter 4 of the District Plan, and Guidance Notes, for further details of information requirements.

To erect a wayfinding Pou to Te Ruapekapeka Pā in the Rural Production Zone. Refer to section 5 of AEE for a list of reasons for consent.

If this is an application for a Change or Cancellation of Consent Notice conditions (s.221(3)), please quote relevant existing Resource Consents and Consent Notice identifiers and provide details of the change(s), with reasons for requesting them.

10. Would you like to request Public Notification?

☐ Yes ☒ No

11. Other Consent required/being applied for under different legislation

(more than one circle can be ticked):

- ☐ Building Consent
- ☐ Regional Council Consent (ref # if known)
- ☐ National Environmental Standard consent
- ☐ Other (please specify)

12. National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health:

The site and proposal may be subject to the above NES. In order to determine whether regard needs to be had to the NES please answer the following:

Is the piece of land currently being used or has it historically ever been used for an activity or industry on the Hazardous Industries and Activities List (HAIL) ☐ Yes ☒ No ☐ Don't know

Is the proposed activity an activity covered by the NES? Please tick if any of the following apply to your proposal, as the NESCS may apply as a result. ☐ Yes ☒ No ☐ Don't know

- | | |
|--|--|
| ☐ Subdividing land | ☐ Disturbing, removing or sampling soil |
| ☐ Changing the use of a piece of land | ☐ Removing or replacing a fuel storage system |

13. Assessment of Environmental Effects:

Every application for resource consent must be accompanied by an Assessment of Environmental Effects (AEE). This is a requirement of Schedule 4 of the Resource Management Act 1991 and an application can be rejected if an adequate AEE is not provided. The information in an AEE must be specified in sufficient detail to satisfy the purpose for which it is required. Your AEE may include additional information such as Written Approvals from adjoining property owners, or affected parties.

Your AEE is attached to this application ☒ Yes

13. Draft Conditions:

Do you wish to see the draft conditions prior to the release of the resource consent decision? ☒ Yes ☐ No

If yes, do you agree to extend the processing timeframe pursuant to Section 37 of the Resource Management Act by 5 working days? ☒ Yes ☐ No

14. Billing Details:

This identifies the person or entity that will be responsible for paying any invoices or receiving any refunds associated with processing this resource consent. Please also refer to Council's Fees and Charges Schedule.

Name/s: (please write in full) Kay Kawari DAVIS - Te Ruapekapeka Trust

Email:

Phone number:

Postal address:

(or alternative method of service under section 352 of the act)

Fees Information

An instalment fee for processing this application is payable at the time of lodgement and must accompany your application in order for it to be lodged. Please note that if the instalment fee is insufficient to cover the actual and reasonable costs of work undertaken to process the application you will be required to pay any additional costs. Invoiced amounts are payable by the 20th of the month following invoice date. You may also be required to make additional payments if your application requires notification.

Declaration concerning Payment of Fees

I/we understand that the Council may charge me/us for all costs actually and reasonably incurred in processing this application. Subject to my/our rights under Sections 357B and 358 of the RMA, to object to any costs, I/we undertake to pay all and future processing costs incurred by the Council. Without limiting the Far North District Council's legal rights if any steps (including the use of debt collection agencies) are necessary to recover unpaid processing costs I/we agree to pay all costs of recovering those processing costs. If this application is made on behalf of a trust (private or family), a society (incorporated or unincorporated) or a company in signing this application I/we are binding the trust, society or company to pay all the above costs and guaranteeing to pay all the above costs in my/our personal capacity.

Name: (please write in full)

Kay Kawari DAVIS

Signature:

(signature of bill payer)

Date 23/06/2025

MANDATORY

15. Important Information:

Note to applicant

You must include all information required by this form. The information must be specified in sufficient detail to satisfy the purpose for which it is required.

You may apply for 2 or more resource consents that are needed for the same activity on the same form. You must pay the charge payable to the consent authority for the resource consent application under the Resource Management Act 1991.

Fast-track application

Under the fast-track resource consent process, notice of the decision must be given within 10 working days after the date the application was first lodged with the authority, unless the applicant opts out of that process at the time of lodgement. A fast-track application may cease to be a fast-track application under section 87AAC(2) of the RMA.

Privacy Information:

Once this application is lodged with the Council it becomes public information. Please advise Council if there is sensitive information in the proposal. The information you have provided on this form is required so that your application for consent pursuant to the Resource Management Act 1991 can be processed under that Act. The information will be stored on a public register and held by the Far North District Council. The details of your application may also be made available to the public on the Council's website, www.fndc.govt.nz. These details are collected to inform the general public and community groups about all consents which have been issued through the Far North District Council.

15. Important information continued...

Declaration

The information I have supplied with this application is true and complete to the best of my knowledge.

Name: (please write in full)

Makarena Dalton

Signature:

[Redacted Signature]

Date 23-Jun-2025

A signature is not required if the application is made by electronic means

Checklist (please tick if information is provided)

- ☐ Payment (cheques payable to Far North District Council)
- ☒ A current Certificate of Title (Search Copy not more than 6 months old)
- ☐ Details of your consultation with Iwi and hapū
- ☒ Copies of any listed encumbrances, easements and/or consent notices relevant to the application
- ☒ Applicant / Agent / Property Owner / Bill Payer details provided
- ☐ Location of property and description of proposal
- ☒ Assessment of Environmental Effects
- ☒ Written Approvals / correspondence from consulted parties
- ☒ Reports from technical experts (if required)
- ☒ Copies of other relevant consents associated with this application
- ☒ Location and Site plans (land use) AND/OR
- ☐ Location and Scheme Plan (subdivision)
- ☒ Elevations / Floor plans
- ☒ Topographical / contour plans

Please refer to Chapter 4 of the District Plan for details of the information that must be provided with an application. Please also refer to the RC Checklist available on the Council's website. This contains more helpful hints as to what information needs to be shown on plans.



Te Ruapekapeka Pā 'Wayfinding' Pou, Towai

Intersection of Ruapekapeka Road and State
Highway 1

Assessment of Environmental Effects and Statutory Analysis

23 June 2025

B&A

Urban & Environmental

Prepared for:
Te Ruapekapeka Trust

B&A Reference:

26040

Status:

Final Revision

Date:

23 June 2025

Prepared by:



Laura Bowman

Planner, Barker & Associates Limited

Reviewed by:



Makarena Dalton

Senior Associate, Barker & Associates Limited

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Appendix 5	Copies of the Relevant Resource Consent Approvals – NRC
Appendix 6	Site Plan, Foundation and Elevation Plans
Appendix 7	SW Engineering PS1
Appendix 8	Rules Assessment
Appendix 9	Topographical Survey

1.0 Applicant and Property Details

To:	Far North District Council
Site Address:	Part Section 9-10 Block V Hukerenui Survey District
Applicant Name:	Te Ruapekapeka Trust
Address for Service:	Barker & Associates Ltd PO Box 414, Kerikeri 0230 Level 1, 62 Kerikeri Road Kerikeri 0230 Attention: Makarena Dalton
Legal Description:	Part Section 9-10 Block V Hukerenui Survey District (refer to Record of Title as Appendix 1)
Site Area:	17.6084 ha
Site Owner:	Leslie James Wallace and Sandra Louise Wallace
District Plan:	Operative Far North District Plan (ODP) Proposed Far North District Plan (PDP)
Zoning:	ODP: Rural Production Zone PDP: Rural Production Zone
Precinct:	ODP: None PDP: None
Overlays & Controls:	ODP: NRC Flood Susceptible land PDP: River Flood Hazard Zone (10 and 100 Year ARI Event)
Designations:	ODP: None PDP: None
Additional Limitations:	NRC Flood Hazard Zone 10, 50 and 100 Years
Locality Diagram:	Refer to Figure 1
Brief Description of Proposal:	To erect a wayfinding Pou to Te Ruapekapeka Pā in the Rural Production Zone.
Summary of Reasons for Consent:	ODP: Restricted Discretionary consent is required pursuant to 8.6.5.1.2 Sunlight; 8.6.5.1.4 Setback from Boundaries and 12.7.6.1.1 Setback from Lakes, Rivers

and the Coastal Marine Area. A summary of reason for consent is outlined in **Section 5** below .

2.0 Background

Barker & Associates (**B&A**) are engaged by Te Ruapekapeka Trust to prepare and lodge a resource consent application to the Far North District Council (**FNDC**).

Te Ruapekapeka Trust received funding from Kānoa – Regional Economic Development and Provincial Growth und (**PGF**) in recognition of Te Ruapekapeka as a historic site of national importance. As part of this project, Te Ruapekapeka Trust, FNDC and Waka Kotahi NZTA (**NZTA**) worked in partnership to seal Ruapekapeka Road and install a number of improvements at Te Ruapekapeka Pā. In addition, there was a project to undertake improvements to State Highway 1, establish a carpark and erect a ‘wayfinding’ pou at the intersection of Ruapekapeka Road SH1 with consents obtained to facilitate these works (refer to section 2.2 to below), however, this project is no longer going ahead due to funding constraints.

Now, Te Ruapekapeka Trust is moving ahead with a smaller scale project to erect a Pou to mark the pā location at the state highway. This proposal seeks to erect a wayfinding pou within the site legally described as Part Section 9-10 Block V Hukerenui Survey District. This will serve as a pivotal landmark to identify Te Ruapekapeka Pā, especially for travellers on State Highway 1. Details of pre-lodgement consultation and relevant consenting history are provided below.

This Assessment of Environmental Effects (**AEE**) has been prepared in accordance with the requirements of Section 88 of and Schedule 4 to the Resource Management Act 1991 (**RMA**) and is intended to provide the information necessary for a full understanding of the activity for which consent is sought and any actual or potential effects the proposal may have on the environment

2.1 Pre-Lodgement Consultation

A Memorandum of Understanding (**MOU**) has been entered into with the Wallace Whānau to erect the Pou within their property. Records of consultation have been included within **Appendix 2**

Pre-lodgement consultation has also been undertaken with FNDC’s roading department and NZTA. Records of consultation have been included within **Appendix 3**. The following comments are relevant from each organisation:

- **FNDC Roding Department** – have reviewed the plans, undertaken a site visit and are familiar with the project. Formal approval will be made via the consenting process; however, they have no road safety concerns and support the project in principle.
- **NZTA** – Consultation with NZTA is still underway, however, no concerns have been raised at the time of lodgement.

2.2 Consenting History

A summary of the relevant FNDC resource consent approvals is provided below, with copies of the approved consents enclosed at **Appendix 4**:

- **2220549-RMALUC** was approved on 26 April 2022 for the Ruapekapeka Road intersection improvements. Consents were obtained by FNDC’s Roding department. The approved plans for this included a potential location for the Wayfinding Pou in the road reserve. However, the final location of the structure was not formalised under this approved consent. FNDC and Waka Kotahi are no longer moving ahead with the road improvements. As such, Te Ruapekapeka

Trust are progressing with the construction of the Wayfinding Pou as a separate venture. A decision was made not to locate the structure in the road reserve and the proposal is to erect the structure on the adjacent property. As such a new resource consent application is being sought for the Wayfinding Pou as a standalone activity.

- **2220252-RMALUC** was approved on 20 December 2021 under delegated authority for physical works associated with the upgrade and sealing of Te Ruapekapeka Road. These works have been completed.

Regional consents have also been obtained to undertake improvements at the intersection of State Highway 1 and Ruapekapeka Road, refer to **Appendix 5**. While the full extent of these works will not be carried out as part these works; these approvals can be relied on for the purpose of undertaking earthworks in proximity to Towai Stream.

3.0 Site Context

3.1 Site Description

The Wayfinding Pou structure is proposed to be located within Pt Section 9 Blk V Hukerenui SD as shown in **Figure 1** below. Specifically, the structure would be located in the westernmost corner boundary at the intersection of State Highway 1 and Ruapekapeka Road.

The subject site has an area of approximately 17.6084 ha and is located with the Rural Production zone. It is bounded State Highway 1 on the east by and by Ruapekapeka Road to the Northwest. The site is relatively flat and compromises of farm accessory buildings as built development and open pasture land. There is a waterbody that traverses the westernmost corner of the site, in the vicinity of the proposed location of the structure.

There are overhead powerlines that run along the road reserve on the southern side of Ruapekepeke Road and as such run along a section of the northwestern boundary that adjoins this local road. There are also powerlines running along the eastern road reserve of State Highway 1, and adjoin the western boundary of the site. The overhead power line traverses the northwestern corner of the site.



Figure 1: Locality plan. Yellow star indicates the proposed Wayfinding Pou location on the site.

3.2 Surrounding Locality

The wider locality is predominantly made up of land zoned as Rural Production which houses a number of residential dwellings and open pasture land. Directly across State Highway 1 to the west of the site there is a G.A.S. Petrol Service Bar which provides as a general convenience store of Towai. Towai is located approximately 1km to the south which comprises a café and tavern.

4.0 Proposal

A summary of the key elements is set out below. More detailed descriptions on particular aspects of the proposal are set out in the specialist reports and plans accompanying the application.

This application includes the installation of a structure defined as a Wayfinding Pou within the northwestern corner of the site, at the intersection of Ruapekapeka Road and State Highway 1. A site plan is included at **Appendix 6** demonstrating the location of the structure within the site. In summary, the application involves the following:

- **Structure:** The proposed Wayfinding Pou will have a maximum height of 9.9m and will be 6.3m at its widest span. The Pou will be set on a foundation base approximately 3m x 3m.
- **Earthworks:** Approximately 50m³ of earthworks are proposed over an area of 10m² for the structure to develop a foundation pad which is 3m x 3m. No vegetation removal is required.

SW Engineering have prepared a Producer Statement of the required works which is provided as **Appendix 7** of the AEE.

Detail of each element described above is provided in the relevant reports or plans.

5.0 Reasons for Consent

A rules assessment against the provisions of the Far North District Plan (ODP) is attached as **Appendix 8**. The site is Rural Production Zone and is identified as NRC Flood Susceptible land under the ODP. Under the Proposed District Plan (PDP) the site is located in the Rural Production Zone with the River Flood Hazard Zones (10 and 100 Year ARI Events) overlays. The proposal requires consent for the matters outlined below.

5.1 Operative Far North District Plan

Rural Production Zone

- **8.6.5.1.2 Sunlight:** the proposed Wayfinding Pou with infringe the permitted sunlight standard as the proposed structure it to be setback 0.783m from the northern boundary of the site. Given the height of the structure at just under 10m, it will project beyond a 45 degree recession plane as measured inwards from 2m above ground level. This will result as restricted discretionary activity in accordance with rule 8.6.5.3.3.
- **8.6.5.1.4 Setback from Boundaries:** the proposed Wayfinding Pou with infringe the permitted setback from boundary of both Ruapekapeka Road and State Highway 1. This will result as restricted discretionary activity in accordance with rule 8.6.5.3.4.

Natural and Physical Resources

- **12.7.6.1.1 Setback from Lakes, Rivers and the Coastal Marine Area:** the proposed Wayfinding Pou with infringe the permitted setback rule as it will be situated within a 3m setback from the nearest waterbody. This will result as restricted discretionary activity in accordance with rule 12.7.6.2.

5.2 Proposed Far North District Plan

No rules with immediate legal effect trigger reasons for consent in accordance with section 96F of the RMA, refer to **Appendix 8**.

5.3 National Environmental Standard – Contaminated Soils

The NES Contaminated Soils were gazetted on 13th October 2011 and took effect on 1st January 2012.

The standards are applicable if the land in question is, or has been, or is more likely than not to have been used for a hazardous activity or industry and the applicant proposes to subdivide or change the use of the land, or disturb the soil, or remove or replace a fuel storage system.

The application site is not mapped on Northland Regional Councils Selected Land Use register and there is no information that suggests that the site has been used for any activities that are on the Hazardous Activities and Industry List (HAIL) or evidence of migration of hazardous substances from adjacent land use.

Based on the above, the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011 (NES-CS) does not apply to the proposal.

5.4 Activity Status

Overall, this application is for a **restricted discretionary** activity.

6.0 Public Notification Assessment (Sections 95A, 95C and 95D)

6.1 Assessment of Steps 1 to 4 (Sections 95A)

Section 95A specifies the steps the council is to follow to determine whether an application is to be publicly notified. These are addressed in statutory order below.

6.1.1 Step 1: Mandatory public notification is required in certain circumstances

Step 1 requires public notification where this is requested by the applicant; or the application is made jointly with an application to exchange of recreation reserved land under section 15AA of the Reserves Act 1977.

The above does not apply to the proposal.

6.1.2 Step 2: If not required by step 1, public notification precluded in certain circumstances

Step 2 describes that public notification is precluded where all applicable rules and national environmental standards preclude public notification; or where the application is for a controlled activity; or a restricted discretionary, discretionary or non-complying boundary activity.

In this case, the applicable rules do not preclude public notification, and the proposal is not a controlled activity or boundary activity. Therefore, public notification is not precluded.

6.1.3 Step 3: If not required by step 2, public notification required in certain circumstances

Step 3 describes that where public notification is not precluded by step 2, it is required if the applicable rules or national environmental standards require public notification, or if the activity is likely to have adverse effects on the environment that are more than minor.

As noted under step 2 above, public notification is not precluded, and an assessment in accordance with section 95A is required, which is set out in the sections below. As described below, it is considered that any adverse effects will be less than minor.

6.1.4 Step 4: Public notification in special circumstances

If an application is not required to be publicly notified as a result of any of the previous steps, then the council is required to determine whether special circumstances exist that warrant it being publicly notified.

Special circumstances are those that are:

- Exceptional or unusual, but something less than extraordinary; or
- Outside of the common run of applications of this nature; or

- Circumstances which make notification desirable, notwithstanding the conclusion that the adverse effects will be no more than minor.

The application is to install a structure identified as a Wayfinding Pou in at the intersection of Ruapekapeka Road and State Highway 1 within Part Section 9-10 Block V Hukerenui Survey District. Resource consent is required for a restricted discretionary activity as such the ODP provides for and anticipates this activity. The proposal infringes the permitted Sunlight and setback standards.

It is considered that there is nothing noteworthy about the proposal. It is therefore considered that the application cannot be described as being out of the ordinary or giving rise to special circumstances.

6.2 Section 95D Statutory Matters

In determining whether to publicly notify an application, section 95D specifies a council must decide whether an activity will have, or is likely to have, adverse effects on the environment that are more than minor.

In determining whether adverse effects are more than minor:

- Adverse effects on persons who own or occupy the land within which the activity will occur, or any land adjacent to that land, must be disregarded.

The land to be excluded from the assessment is listed in section 6.3 below.

- Adverse effects permitted by a rule in a plan or national environmental standard (the 'permitted baseline') may be disregarded.

In this case the Rural Production zone provides for up to 5,000m³ of earthworks with cuts or fill faces up to 3m in height where suitable erosion and sediment control measures have been implemented. The proposal involves minimal earthworks to establish the foundation of the pou. These are estimated at up to 50m³ over an area of approximately 10m² which are considered to be well below the permitted baseline. As such, earthworks that meet these thresholds are considered to be a relevant permitted baseline.

- As a restricted discretionary activity, only those effects on persons that fall within the matters of discretion restricted under the plan can be considered.

The matters of discretion are listed in section 6.4 below.

- Trade competition must be disregarded.

This is not considered to be a relevant matter in this case.

- The adverse effects on those persons who have provided their written approval must be disregarded.

- LJ and SL Wallace, as the owner of Part Section 9-10 Block V Hukerenui Survey District, have provided their written approval to the proposal.

Therefore, adverse effects on these parties have been disregarded.

The sections below set out an assessment in accordance with section 95D, including identification of adjacent properties, matters of discretion, and an assessment of adverse effects.

6.3 Land Excluded from the Assessment

In terms of the tests for public notification (but not for the purposes of limited notification or service of notice), the adjacent properties to be excluded from the assessment are shown in **Figure 2** below, and include:

- 28 Ruapekapeka Road (North);
- 50 Ruapekapeka Road; Part Ruapekapeka 6B1C2B Block and Part Ruapekapeka 6B2B1 Block [North East];
- Lot 1 Deposited Plan 61839 and 3920 SH 1 (East, South East); and
- 3933 SH 1 and Section 129-130 Block V Hukerenui Survey District (South West) .



Figure 2: Adjacent properties in relation to subject site. Source: Emaps.

6.4 Matters of Discretion

Under section 104C of the Act, as a restricted discretionary activity, the consent authority must consider only those matters over which it has restricted the exercise of its discretion in its plan.

These matters are:

- 8.6.5.1.2 Sunlight;

- a) the extent to which adjacent properties will be adversely affected in terms of visual domination, overshadowing, loss of privacy and loss of access to sunlight and daylight;
 - b) the location and proximity of adjacent residential units, and the outdoor space used by those units;
 - c) the ability to mitigate any adverse effects of loss of sunlight.
- **8.6.5.1.4 Setback from Boundaries;**
 - a) The extent to which the building(s) reduces outlook and privacy of adjacent properties;
 - b) the extent to which the buildings restrict visibility for access and egress of vehicles;
 - c) the ability to mitigate any adverse effects on the surrounding environment, for example by way of planting;
 - d) for sites having a frontage with Kerikeri Road (between its intersection with SH10 and Cannon Drive) there are various considerations that do not apply to this application.
 - e) for residential buildings located within 100m of Minerals Zone there are various considerations that do not apply to this application
 - f) the extent to which the buildings and their use will impact on the public use and enjoyment of adjoining esplanade reserves and strips and adjacent coastal marine areas. This consideration is not pertinent to this application
 - **12.7.6.1.1 Setback from Lakes, Rivers and the Coastal Marine Area**
 - a) the extent to which the activity may adversely affect cultural and spiritual values;
 - b) the extent to which the activity may adversely affect wetlands;
 - c) the extent to which the activity may exacerbate or be adversely affected by natural hazards;
 - d) the potential effects of the activity on the natural character and amenity values of lakes, rivers, wetlands and their margins or the coastal environment;
 - e) the history of the site and the extent to which it has been modified by human intervention;
 - f) the potential effects on the biodiversity and life supporting capacity of the water body or coastal marine area or riparian margins;
 - g) the potential and cumulative effects on water quality and quantity, and in particular, whether the activity is within a water catchment that serves a public water supply;
 - h) the extent to which any proposed measures will mitigate adverse effects on water quality or on vegetation on riparian margins;
 - i) whether there are better alternatives for effluent disposal;
 - j) the extent to which the activity has a functional need to establish adjacent to a water body;
 - k) whether there is a need to restrict public access or the type of public access in situations where adverse safety or operational considerations could result if an esplanade reserve or strip were to vest.

6.5 Assessment of Effects on the Wider Environment

The following sections set out an assessment of wider effects of the proposal, and it is considered that effects in relation to the following matters are relevant:

- Dominance, Shading and Privacy Effects Values;
- Construction Activities;
- Transport Effects; and
- Cultural Effects.

These matters are set out and discussed below.

6.5.1 Dominance, Shading and Privacy Effects Values

The Wayfinding Pou is proposed to be located within 1m of the northwestern boundary which adjoins Ruapekapeka Road. The nearest residential dwelling is over 100m away and so adjacent properties will be adversely affected in terms of visual domination, overshadowing, loss of privacy and loss of access to sunlight and daylight.

The location of the structure has been designed to be visible from the roading network. However, the structure complies with the permitted maximum height and standard GFA standards for buildings in this zone and will not restrict the visibility from cars utilising the adjacent roading network and intersection.

Pou are a common feature of roading projects, with many examples of this along State Highways and local roads alike and this project is considered to be no different.

Taking account of the above, overall, adverse effects associated with visual effects values are considered to be less than minor.

6.5.2 Construction Activities

The Wayfinding Pou is proposed to be located with the 30m margin from a watercourse. Regional consents for activities of a much larger scale have already been approved and the physical works associated with installing the structure is considered minimal with temporary erosion and sediment control measures installed during the construction period to manage any runoff. The proposed earthworks to modify the site and enable the construction of the foundation will include excavation of a maximum volume of 50m³ over an area of 10m² to establish suitable levels for the foundation.

There is sufficient room for vehicles and associated construction activities with an existing metalled carparking area available for vehicles. These works will be completed in a number of weeks.

Overall, having regard to the above, it is considered that any adverse construction effects will be less than minor.

6.5.3 Transport Effects

A topographical survey of the site has been prepared by Taiao Surveyors and is enclosed at Appendix 9 of the AEE showing the sites natural and physical features. The Pou will be erected within 0.7m of the legal boundary of Ruapekapeka Road and approximately 5m from the legal

boundary of State Highway 1. The proposed works are still a considerable distance from the formed carriageway and will not impact any associated stormwater drains of both roads.

As noted above, Pou are a common feature of roading projects and the proposed Pou is not considered to raise traffic safety concerns. Pre-lodgement consultation has been undertaken with both FNDC's Roading department and Waka Kotahi and no traffic safety concerns have been raised to date.

On this basis, effects of the transport network are considered to be less than minor.

6.5.4 Cultural Effects

The proposed Wayfinding Pou is not located within a site that is mapped as containing a site of significance to Māori in the ODP. An ArchSite search has been undertaken on the proposed structure site and no archaeology or heritage items within the site have been identified. Te Ruapekapeka Trust recognises the cultural value of the location and have chosen to locate the Wayfinding Pou in this location within this site based on its cultural significance. The installation aims to enhance the cultural and historical significance of the site, providing visitors with a visual representation of Te Ruapekapeka's heritage and promoting awareness of its importance.

Taking into account the above, subject to installing appropriate erosion and sediment control measures the proposal is considered to have less than minor adverse effects on cultural values.

6.6 Summary of Effects

Overall, it is considered that any adverse effects on the environment relating to this proposal will be less than minor.

6.7 Public Notification Conclusion

Having undertaken the section 95A public notification tests, the following conclusions are reached:

- Under step 1, public notification is not mandatory;
- Under step 2, public notification is not precluded;
- Under step 3, public notification is not required as it is considered that the activity will result in less than minor adverse effects; and
- Under step 4, there are no special circumstances.

Therefore, based on the conclusions reached under steps 3 and 4, it is recommended that this application be processed without public notification.

7.0 Limited Notification Assessment (Sections 95B, 95E to 95G)

7.1 Assessment of Steps 1 to 4 (Sections 95B)

If the application is not publicly notified under section 95A, the council must follow the steps set out in section 95B to determine whether to limited notify the application. These steps are addressed in the statutory order below.

7.1.1 Step 1: Certain affected protected customary rights groups must be notified

Step 1 requires limited notification where there are any affected protected customary rights groups or customary marine title groups; or affected persons under a statutory acknowledgement affecting the land.

The above does not apply to this proposal.

7.1.2 Step 2: If not required by step 1, limited notification precluded in certain circumstances

Step 2 describes that limited notification is precluded where all applicable rules and national environmental standards preclude limited notification; or the application is for a controlled activity (other than the subdivision of land).

In this case, the applicable rules do not preclude limited notification and the proposal is not a controlled activity. Therefore, limited notification is not precluded.

7.1.3 Step 3: If not precluded by step 2, certain other affected persons must be notified

Step 3 requires that, where limited notification is not precluded under step 2 above, a determination must be made as to whether any of the following persons are affected persons:

- In the case of a boundary activity, an owner of an allotment with an infringed boundary;
- In the case of any other activity, a person affected in accordance with s95E.

The application is not for a boundary activity, and therefore an assessment in accordance with section 95E is required and is set out below.

Overall, it is considered that any adverse effects on persons will be less than minor, and accordingly, that no persons are adversely affected.

7.1.4 Step 4: Further notification in special circumstances

In addition to the findings of the previous steps, the council is also required to determine whether special circumstances exist in relation to the application that warrant notification of the application to any other persons not already determined as eligible for limited notification.

In this instance, having regard to the assessment in section 6.1.4 above, it is considered that special circumstances do not apply.

7.2 Section 95E Statutory Matters

If the application is not publicly notified, a council must decide if there are any affected persons and give limited notification to those persons. A person is affected if the effects of the activity on that person are minor or more than minor (but not less than minor).

In deciding who is an affected person under section 95E:

- Adverse effects permitted by a rule in a plan or national environmental standard (the 'permitted baseline') may be disregarded;

- Only those effects that relate to a matter of control or discretion can be considered (in the case of controlled or restricted discretionary activities); and
- The adverse effects on those persons who have provided their written approval must be disregarded.

These matters were addressed in section 6.2 above, and written approval has been provided by:

- LJ and SL Wallace, as the owner of Part Section 9-10 Block V Hukerenui Survey District, have provided their written approval to the proposal. These parties are also the owners of the majority of the neighbouring properties listed below and so effects on these properties can be disregarded.
 - 28 Ruapekapeka Road
 - Part Ruapekapeka 6B1C2B Block
 - Part Ruapekapeka 6B2B1 Block
 - Lot 1 Deposited Plan 61839
 - 3920 State Highway 1

Having regard to the above provisions, an assessment is provided below.

7.3 Assessment of Effects on Persons

Adverse effects in relation to dominance, shading and privacy on persons are considered below.

Wider effects, were considered in section 7 above, and considered to be less than minor.

7.3.1 Persons at 50 Ruapekapeka Road

50 Ruapekapeka Road is located to the north east of the site and approximately 800m from the proposed location for the Wayfinding Pou structure. As such there will be no dominance, shading or privacy effects for persons at this address.

7.3.2 Persons at 3933 SH 1 and Section 129-130 Block V Hukerenui Survey District

These two properties form site of the G.A.S Petrol Service Station. The sites are located approximately 50m to the west of the proposed location for the Wayfinding Pou structure. As such there will be no dominance, shading or privacy effects for persons at this address.

7.3.3 NZTA and FNDC Roothing Department

As detailed at section 2.1 of this AEE, consultation with NZTA and FNDC has been undertaken with a record of consultation enclosed at **Appendix 4**. The following comments are noted:

- FNDC Roothing Department who are the roading authorities for Ruapekapeka Road are supportive of the project and have provided approval in principle. This is subject to formal approval via the resource consenting process.
- Te Ruapekapeka Trust has been working with NZTA for a number of years which is reflected in the correspondence attached. The current proposal is currently being considered by NZTA's traffic safety team, and the results of that consultation is anticipated via this consenting process. Notwithstanding, the proposed Pou while technically infringing the 10m setback from the legal boundary will still be located approximately 20m from the formed carriageway of the

state highway ensuring the structure will not damage the road or impede traffic flows. The Pou will be visible by passing vehicles on the state highway, but is not considered to cause traffic safety concerns.

Overall, adverse effects on both NZTA and FNDC are considered to be less than minor.

7.3.4 Summary of Effects

Taking the above into account, it is considered that any adverse effects on persons at the aforementioned properties will be less than minor in relation to dominance, shading and privacy effects. Wider effects, were assessed in section 7 above and are considered to be less than minor.

It is considered, therefore, that there are no adversely affected persons in relation to this proposal.

7.4 Limited Notification Conclusion

Having undertaken the section 95B limited notification tests, the following conclusions are reached:

- Under step 1, limited notification is not mandatory;
- Under step 2, limited notification is not precluded;
- Under step 3, limited notification is not required as it is considered that the activity will not result in any adversely affected persons; and
- Under step 4, there are no special circumstances.

Therefore, it is recommended that this application be processed without limited notification.

8.0 Consideration of Applications (Section 104)

8.1 Statutory Matters

Subject to Part 2 of the Act, when considering an application for resource consent and any submissions received, a council must, in accordance with section 104(1) of the Act have regard to:

- Any actual and potential effects on the environment of allowing the activity;
- Any relevant provisions of a national environmental standard, other regulations, national policy statement, a New Zealand coastal policy statement, a regional policy statement or proposed regional policy statement; a plan or proposed plan; and
- Any other matter a council considers relevant and reasonably necessary to determine the application.

As a restricted discretionary activity, section 104C of the Act states that a council:

- (1) may grant or refuse the application;
- (2) must only consider matters over which a discretion is restricted; and
- (3) if it grants the application, may impose conditions under section 108 only for those matters which it has restricted the exercise of its discretion in its plan.

8.2 Weighting of Proposed Plan Changes: Proposed Far North District Plan

On the 27th July Far North District Council (FNDC) notified their Proposed District Plan (PDP).

Under the Proposed Far North District Plan, the application site is zoned Rural Production and subject River Flood Hazard Overlay.

At the time of preparing this AEE, only rules identified as having immediate legal effect have been considered. This will remain the case until FNDC releases a decision on the Proposed Far North District Plan (this will occur once hearings have been completed).

9.0 Effects on the Environment (Section 104(1)(A))

Having regard to the actual and potential effects on the environment of the activity resulting from the proposal, it was concluded in the assessment above that any wider adverse effects relating to the proposal will be less than minor and that no persons would be adversely affected by the proposal.

Further, it is considered that the proposal will also result in positive effects including:

- The installation will to enhance the cultural and historical significance of the site, providing visitors with a visual representation of Te Ruapekapeka's heritage and promoting awareness of its importance.; and

Overall, it is considered that when taking into account the positive effects, any actual and potential adverse effects on the environment of allowing the activity are acceptable.

10.0 District Plan and Statutory Documents (Section 104(1)(B))

10.1 Objectives and Policies of the Far North District Plan

10.1.1 Chapter 8.6 Rural Production Zone

The rural production zone applies to the majority of land within the district, and seeks to enable the continuation of a wide range of activities for existing and future activities that are compatible with the productive purpose of the zone. Objective 8.6.3.2 specifies that the use and development of the Rural Production Zone must be in a way that enables people and communities to provide for their cultural wellbeing.

Therefore, the objectives and policies of the zone seek to provide for a wide range of activities, while managing the effects of activities that are incompatible with the rural production zone. The proposed Wayfinding Pou Structure is not considered to be incompatible, as it does not restrict existing activities or generate reverse sensitivity effects that may limit the rural productive purpose of the zone.

In conclusion, the proposed Wayfinding Pou activity is considered to be consistent with the outcomes of the zone.

10.1.2 Chapter 12.7 Lakes, Rivers, Wetlands and the Coastline

The objectives and policies of the Lakes, Rivers, Wetlands and the Coastline chapter are contained within Chapter 12.7 of the ODP and seek to ensure the amenity and natural values, including the quality and quantity of water are maintained.

The proposed Wayfinding Pou Structure is not considered to be incompatible, as the earthworks required for to disturb the land in the vicinity of the watercourse are minimal and will be managed in such a way to avoid any adverse effects on the watercourse.

In conclusion, the proposed Wayfinding Pou activity is considered to be consistent with the outcomes of the zone.

10.2 Objectives and Policies of the Proposed Far North Plan

10.2.1 Rural Production Zone Chapter - PROZ

The proposal results in proposed Wayfinding Pou activity being located within the Rural Production Zone. The objectives and policies of the Rural Production Zone ensure land use is managed to ensure its availability for primary production activities. Policy PROZ-P4 Provides that land use that has low density development with generally low site coverage of buildings or structures will maintain the rural character and amenity of the zone. The proposed Wayfinding Pou Structure is not considered to be incompatible based on the scale and design the structure. Further, it does not generate reverse sensitivity effects that would be incompatible with the rural productive purpose of the zone. In conclusion, the proposed Wayfinding Pou activity is considered to be consistent with the outcomes of the zone.

10.2.2 Natural Hazards – Chapter NH

The proposal also interreacts with overlays as the application site has Flood Susceptible Land, noting that the specific location of the structure will be outside of this overlay.

The objectives and policies of the of the Natural Hazard Chapter seek to ensure that risks from natural hazards to people, infrastructure and property are managed and new infrastructure is located outside of natural hazard areas. The proposed Wayfinding Pou Structure is located within the area on the application site that is identified as flood susceptible land. Though in proximity to the overlay, due to the minimal GFA, the structure is not considered to exacerbate the natural hazard risk to any other persons, property or land in the wider environment. In conclusion, the proposed Wayfinding Pou activity is considered to be consistent with the outcomes of the zone.

10.3 Regional Policy Statement for Northland (RPS)

The operative Regional Policy Statement (**RPS**) for Northland contains high level policy guidance for development within the region and is the vehicle for identifying and dealing with significant resource management issues in Te Taitokerau Northland.

Overall, it is considered that the proposal is not contrary to the objectives and policies of the RPS.

10.4 Summary

It is considered that the proposed development is generally in accordance with the objectives and policies of the ODP, PDP and PRS .

11.0 Part 2 Matters

Section 5 of Part 2 identifies the purpose of the RMA as being the sustainable management of natural and physical resources. This means managing the use, development and protection of natural and physical resources in a way that enables people and communities to provide for their social, cultural and economic well-being and health and safety while sustaining those resources for future generations, protecting the life supporting capacity of ecosystems, and avoiding, remedying or mitigating adverse effects on the environment.

Section 6 of the Act sets out a number of matters of national importance including (but not limited to) the protection of outstanding natural features and landscapes and historic heritage from inappropriate subdivision, use and development.

Section 7 identifies a number of “other matters” to be given particular regard by Council and includes (but is not limited to) Kaitiakitanga, the efficient use of natural and physical resources, the maintenance and enhancement of amenity values, and maintenance and enhancement of the quality of the environment.

Section 8 requires Council to take into account the principles of the Treaty of Waitangi.

Overall, as the effects of the proposal are considered to be less than minor, and the proposal accords with the relevant ODP objectives and policies, it is considered that the proposal will not offend against the general resource management principles set out in Part 2 of the Act.

12.0 Other Matters (Section 104(1)(C))

12.1 Record of Title Interests

The Record of Title for the site is not subject to any interests.

13.0 Conclusion

The proposal involves the construction of a Wayfinding Pou Structure at Part Section 9-10 Block V Hukerenui Survey District.

Based on the above report it is considered that:

- Public notification is not required as adverse effects in relation to dominance, shading, privacy, constriction activities and cultural effects are considered to be less than minor. There are also positive effects including enhancing the cultural and historical significance;
- Limited notification is not required as there are no adversely affected persons in relation to this proposal;
- The proposal accords with the relevant ODP objectives and policies; and
- The proposal is considered to be consistent with Part 2 of the Act.

It is therefore concluded that the proposal satisfies all matters the consent authority is required to assess, and that it can be granted on a non-notified basis.



RECORD OF TITLE
UNDER LAND TRANSFER ACT 2017
FREEHOLD
Search Copy




R.W. Muir
Registrar-General
of Land

Identifier **NA1072/266** **Part-Cancelled**

Land Registration District **North Auckland**

Date Issued 26 May 1953

Prior References

NA48/224

Estate Fee Simple
Area 17.6084 hectares more or less
Legal Description Part Section 9-10 Block V Hukerenui
Survey District

Registered Owners

Leslie James Wallace as to a 1/2 share
Sandra Louise Wallace as to a 1/2 share

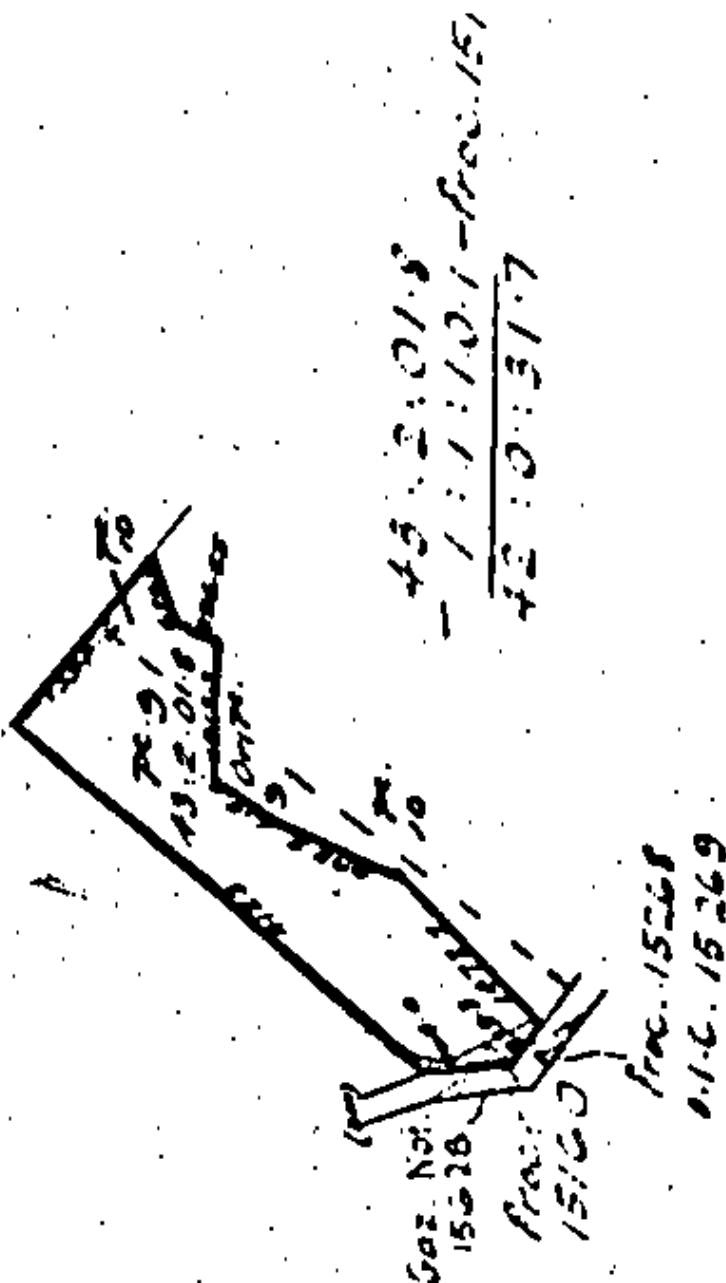
Interests

15160 Proclamation (NZ Gazette 30.8.1956 p.1178) taking parts (5314m²) for road- 9.3.1956 at 2:07 pm
785288.1 Gazette Notice (N.Z. Gazette 18.12.1980 No. 146 P.4066) declaring the adjoining State Highway No.1
(Awanui-Bluff) to be a limited access road - 12.3.1981 at 10.50 am

V Hukeremui S.D.

EQUIVALENT METRIC

AREA IS 17.6083ha
17.6083ha



Te Ruapekapeka Pa Trust



Memorandum of Understanding (MOU)

Between:

LJ & SL Wallace Family and Te Ruapekapeka Trust

Subject: Use of Land for Wayfinder Pou Title Reference:

Location: Intersection of SH1 & Te Ruapekapeka Rd

1. Purpose:

This MOU outlines the agreement between the Wallace family and Te Ruapekapeka Trust regarding the use of the land for the installation of a Wayfinder Pou, which will serve as a pivotal landmark to identify Te Ruapekapeka Pa and especially for travellers on State Highway 1.

The installation aims to enhance the cultural and historical significance of the site, providing visitors with a visual representation of Te Ruapekapeka's heritage and promoting awareness of its importance.

The Wallace family has graciously provided this land to facilitate future progress, and we extend our heartfelt thanks for allowing us to undertake this meaningful project.

2. Agreement:

- a. The Wallace family grants permission to Te Ruapekapeka Trust to use their land for the erection of the Wayfinder Pou.
- b. The Wayfinder Pou will be owned and maintained by Te Ruapekapeka Trust. The Wallace family shall not be liable for any maintenance or damages related to the Wayfinder Pou.

3. Responsibilities:

- a. Te Ruapekapeka Trust will ensure the area is kept clean and tidy.
- b. No rubbish bins or picnic tables shall be installed in the area.

4. Additional Considerations:

- a. The area identified will remain as the current carpark for the use by the local community.
- b. The land will remain in the name of the Wallace family. (please correct name)
- c. All resources and building consents will be the responsibility of Te Ruapekapeka Trust.

5. Transfer of Obligations:

- a. If the Wallace family sells or transfers ownership of the land, the new owners must agree in writing to uphold the terms of this MOU. The Te Ruapekapeka Trust shall have the right to require written confirmation of this agreement before proceeding with any actions related to the Wayfinder Pou.

6. Amendment Process:

- a. Any amendments to this MOU must be made in writing and signed by both parties. Such amendments will be considered valid only if both parties agree to the changes

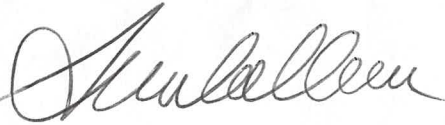
Contact Information:

Te Ruapekapeka Trustee

Signatures:

Sandra Wallace

Date: 24/3/25



Te Ruapekapeka Trust Representative

Date: 24/3/25



For any inquiries related to this MOU, please contact:

Thelma Horne

M: 0212355500

Akerama123@gmail.com

If there's anything else you would like to add, please let me know, and I can incorporate it before returning the finalised document to the Trust for submission on the Te Ruapekapeka letterhead.

From: [Elizabeth Stacey](#)
To: [Guy Holroyd](#); [Tanya Proctor](#); [Makarena Dalton](#)
Cc: [Trish Routley](#); [Wil Pille](#)
Subject: RE: Highway Way finder pou at Towai
Date: Monday, 23 June 2025 9:23:46 am
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Makarena;

We cannot approve the setback breach officially until the consent is filed. Tanya Proctor will be responsible for signing off once the application is filed. That said please include in your application that you have consulted with the transport team and the setback breach is approved in principle. [@Tanya Proctor](#) this Pou project has been in planning for some time. We have visited the site with the Trust and from an asset and road safety perspective have no concerns with approval of the setback breach in this instance. The installation is still quite separated and from the carriageway and poses no ongoing concerns for future development of Ruapekapeka Road.



Elizabeth Stacey

Team Leader - Capital Works & Renewals

M 272467309 | P 6494015274 | Elizabeth.Stacey@fndc.govt.nz

Te Kaunihera o Te Hiku o te Ika | Far North District Council

Pokapū Kōrero 24-hāora | 24-hour Contact Centre 0800 920 029

fndc.govt.nz



From: Guy Holroyd <Guy.Holroyd@fndc.govt.nz>
Sent: Thursday, 19 June 2025 3:26 pm
To: Elizabeth Stacey <Elizabeth.Stacey@fndc.govt.nz>; Tanya Proctor <Tanya.Proctor@fndc.govt.nz>
Cc: Makarena Dalton <makarenad@barker.co.nz>
Subject: FW: Highway Way finder pou at Towai

Kia ora korua,
Can anyone shed some light on this issue for me please? See email history below.
Nga mihi,
Guy



Guy Holroyd

Chief Executive Officer - Strategic Leadership Group

M 273121248 | P 6494015566 | Guy.Holroyd@fndc.govt.nz

Te Kaunihera o Te Hiku o te Ika | Far North District Council

Pokapū Kōrero 24-hāora | 24-hour Contact Centre 0800 920 029

fndc.govt.nz





From: Makarena Dalton <MakarenaD@barker.co.nz>

Sent: Thursday, 19 June 2025 2:37 pm

To: Guy Holroyd <Guy.Holroyd@fndc.govt.nz>; Gayle Andersen <Gayle.Andersen@fndc.govt.nz>

Cc: Rowena Tana <rowena@nhht.co.nz>; Kay Davis <kzkrowd@windowslive.com>; Pita Tipene <pita@nhht.co.nz>

Subject: FW: Highway Way finder pou at Towai

CAUTION: This email originated from outside Far North District Council.

Do not click links or open attachments unless you recognise the sender and know the content is safe.

Kia ora Guy,

Below is the email trail with the information linked by OneDrive for FNDC's roading department.

Put simply, Te Ruapekapeka Trust need confirmation from the roading department that the location of the Pou is OK from their perspective. Once we have that we can lodge the resource consent application.

[Te Ruapekapeka Pa Pou - Corner of State Highway 12 and Ruapekapeka Road](#)

Thank you in advance for any assistance you can provide to expedite this process.

Ngā mihi | Kind regards,

MAKARENA DALTON
Senior Associate
027 286 2298
MakarenaD@barker.co.nz

barker.co.nz

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From: Makarena Dalton

Sent: Tuesday, 17 June 2025 2:20 pm

To: wil.pille@fndc.govt.nz; Elizabeth.Stacey@fndc.govt.nz; Tanya.Proctor@fndc.govt.nz; Trish Routley <Trish.Routley@fndc.govt.nz>

Cc: Rowena Tana <rowena@nhht.co.nz>; Pita Tipene <pita@nhht.co.nz>; Kay Davis <kzkrowd@windowslive.com>; Laura Bowman <LauraB@barker.co.nz>;

Nadia.DeLaGuerre@fndc.govt.nz

Subject: RE: Highway Way finder pou at Towai

Kia ora Wil, Tanya and Trish,

I'm following up on the below, and have included Wil and Trish in the hopes that you may be able to assist with the query below.

Te Ruapekapeka Trust needs urgent assistance regarding the proposal below to erect a wayfinding Pou at the intersection of Ruapekapeka Road and SH1. Receiving comments from FNDC's roading department is now a matter of urgency, as the funders, Kānoa have advised that the Pou must be erected by **31 July** to retain the funding.

Can someone please respond and confirm who is the appropriate person to discuss this with.

Ngā mihi | Kind regards,

MAKARENA DALTON
Senior Associate
[027 286 2298](tel:0272862298)
MakarenaD@barker.co.nz

barker.co.nz

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From: Makarena Dalton

Sent: Thursday, 12 June 2025 7:26 pm

To: Elizabeth.Stacey@fndc.govt.nz; Tanya.Proctor@fndc.govt.nz; Nadia.DeLaGuerre@fndc.govt.nz

Cc: Rowena Tana <rowena@nhht.co.nz>; Pita Tipene <pita@nhht.co.nz>; Kay Davis <kzkrowd@windowslive.com>; Laura Bowman <LauraB@barker.co.nz>

Subject: RE: Highway Way finder pou at Towai

Kia ora Elizabeth,

I am following up on the email below from Rowena Tana on behalf of Te Ruapekapeka Trust.

Te Ruapekapeka Trust has engaged B&A to prepare and lodge a resource consent application on their behalf to erect a wayfinding pou structure at the corner of Ruapekapeka Road and State Highway 1, Towai in the Far North District.

As outlined by Rowena below, the erection of the Pou was initially part of a comprehensive corridor widening and intersection upgrade lead by the Far North District Council in partnership with NZTA Waka Kotahi and Te Ruapekapeka Pā Trust. Consents (2220549-RMALUC) were obtained by FNDC and approved on 26 April 2022 (refer to approved RC at the OneDrive link). However, it is now understood that the wider intersection and corridor upgrades is no longer going ahead.

Now, Te Ruapekapeka Trust are seeking a new resource consent to erect the Pou within the

adjoining private property, legally described as Part Section 9-10 Block V Hukerenui Survey District. The Pou will have a max height of 9.9m, width of between approximately 1.5m at the base and 6.3m at its widest and set on a 3m x 3m foundation.

As, proposed the Pou will be located approximately 0.7m from the legal boundary of Ruapekapeka Road and 5m from SH1. Resource consents are required to infringe the 10m setback from boundary and sunlight rules. When compared to previous indicative location (shown on the approved plans), the Pou is located outside of the legal road corridor.

Te Ruapekapeka Trust intend on lodging the resource consent and building consent exemption next week, so any comments you can provide to on behalf of FNDC's transport department would be welcome.

The following documents are enclosed at the one drive link below:

- Site plan and elevations of the Pou showing dimensions;
- Topographical survey showing ground levels and key physical features; and
- Approved RC for the Intersection Improvements.
-

[Te Ruapekapeka Pa Pou - Corner of State Highway 12 and Ruapekapeka Road](#)

Consultation with Waka Kotahi is also underway.

Ngā mihi | Kind regards,

MAKARENA DALTON
Senior Associate
027 286 2298
MakarenaD@barker.co.nz

barker.co.nz

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From: Rowena Tana <rowena@nhht.co.nz>
Sent: Monday, May 19, 2025 11:32 AM
To: Elizabeth.Stacey@fndc.govt.nz <Elizabeth.Stacey@fndc.govt.nz>
Subject: Highway Way finder pou at Towai

Kia ora Elizabeth,

Warm regards of this Autumn day to you.

You may be aware that Te Ruapekapeka Trust has a plan to erect a Way Finding pou at the corner of SH1 and Ruapekapeka Road in Towai, behind the little carpark there. The design features a warrior (sketch attached) with a maximum height of 7m at the tip of

the warrior's taiaha.

Ove the years we have worked with FNDC, Waka Kotahi, NTA, Top Energy and other organisations, to develop Te Ruapekapeka site, Ruapekapeka Road which was recently upgraded and tarsealed and had conversations about what the Waka Kotahi, FNDC and the Trust's plans are for the corner at Towai.

With regards to erecting the pou, attached is some of the documentation showing past RC applications, as we as a copy of a letter of agreement from the Wallace whanau who own the corner section where the pou will sit. They have always been supportive.

I am writing today to ask if FNDC would be agreeable to providing a letter in support of Te Ruapekapeka Trust's pou project please.

Te Ruapekapeka Trust is also requesting a letter of support for the project from the Northern Transport Alliance.

Makarena Dalton is helping us with determining a few things and it is Makarena who provided us with your cotact details. The pou construction is being carried out by Ara Visions Ltd.

If you require further information, please let me know.

Nga mihi

Rowena.

021 513428

On behalf of Te Ruapekapeka Trust

From: [Makarena Dalton](#)
To: [Tessa Robins](#)
Subject: RE: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793 CRM:0503000246
Date: Monday, 23 June 2025 2:13:00 pm

Kia ora Tessa,

The current proposal has been significantly scaled back from previous iterations that were proposed by FNDC, including the removal of the formed carparking area.

This Pou is a 'wayfinder' to Ruapekapeka Pā, and not intended as a pullover destination for gathering. While there is an existing pullover area, this area is managed by Council and will be unchanged as part of this application. Given the new location of the Pou is within private property and no carparking area is proposed, the Trust has not considered installing a safety guardrail.

Ngā mihi | Kind regards,

MAKARENA DALTON
Senior Associate
[027 286 2298](tel:0272862298)
MakarenaD@barker.co.nz

barker.co.nz



B&A Logo



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From: Tessa Robins <Tessa.Robins1@nzta.govt.nz>
Sent: Monday, 23 June 2025 12:49 pm
To: Makarena Dalton <MakarenaD@barker.co.nz>
Subject: Re: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793 CRM:0503000246

Kia ora Makarena,

I had a meeting with the safety engineer and network team just to clarify the history of this request, as this is the third iteration on record. The safety engineer advised that the previous iterations were associated with the intersection upgrade as that would also provide for a guard rail that would protect the Pou and anyone gathering at the Pou.

Can you please confirm if this was a consideration of this proposal and the justification for not providing a guardrail?

Ngā mihi

Tessa Robins

Consultant Planner

Te Toki, System Design, Transport Services

Email: Tessa.Robins1@nzta.govt.nz

Mobile: 022 377 8812

From: Makarena Dalton <MakarenaD@barker.co.nz>

Sent: Monday, June 23, 2025 11:20 AM

To: Tessa Robins <Tessa.Robins1@nzta.govt.nz>

Subject: RE: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793
CRM:0503000246

Kia ora Tessa,

FNDC's roading department has provided approval in principle. Has there been any updates on your side?

As an FYI, we intend on lodging the RC application today with FNDC.

Ngā mihi | Kind regards,

MAKARENA DALTON
Senior Associate
[027 286 2298](tel:0272862298)
MakarenaD@barker.co.nz

barker.co.nz



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From: Tessa Robins <Tessa.Robins1@nzta.govt.nz>

Sent: Tuesday, 17 June 2025 1:21 pm

To: Makarena Dalton <MakarenaD@barker.co.nz>

Subject: Re: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793
CRM:0503000246

Hi Makarena,

Perfect, thanks for the heads up!

I can see that there is a record of similar requests in this location in the past so I'll touch

base with those involved and hopefully be able to provide comments relatively fast.

I'll be in touch and feel free to email if you need an update at any time!

Ngā mihi

Tessa Robins

Consultant Planner

Te Toki, System Design, Transport Services

Email: Tessa.Robins1@nzta.govt.nz

Mobile: 022 377 8812

From: Makarena Dalton <MakarenaD@barker.co.nz>

Sent: Tuesday, June 17, 2025 1:15 PM

To: Tessa Robins <Tessa.Robins1@nzta.govt.nz>

Subject: RE: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793
CRM:0503000246

Hey Tessa,

I was hoping this would come to you! Time constraints are construction / funding deadlines for the project. Te Ruapekapeka Trust (**Trust**) were provided funding as a 'Sites and Areas of Significance' by the [Provincial Growth Fund](#). Erecting the Pou is the final part of their project, and they have been advised by Kānoa that the Pou needs to be erected by **31 July**.

For you info, the Trust have already been working with the local lines company (Top Energy) to relocate electricity lines and have had confirmation from FNDC that they will assist by fast-tracking any RC's or BC Exemption applications.

Ideally, we want to lodge with a confirmed position from NZTA. So we've held off finalising the AEE.

Ngā mihi | Kind regards,

MAKARENA DALTON
Senior Associate
[027 286 2298](tel:0272862298)
MakarenaD@barker.co.nz

barker.co.nz



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From: Tessa Robins <Tessa.Robins1@nzta.govt.nz>

Sent: Tuesday, 17 June 2025 1:06 pm

To: Makarena Dalton <MakarenaD@barker.co.nz>

Subject: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793 CRM:0503000246

Kia ora Makarena,

Thank you for sending this through, can you please advise of the time constraints and when you would need comments from NZTA by?

Ngā mihi

Tessa Robins

Consultant Planner

Te Toki, System Design, Transport Services

Email: Tessa.Robins1@nzta.govt.nz

Mobile: 022 377 8812

From: Makarena Dalton <MakarenaD@barker.co.nz>

Sent: Friday, 13 June 2025 11:38 am

To: Planning & Auckland Northland <AKLPlanning@nzta.govt.nz>; Environmental Planning <EnvironmentalPlanning@nzta.govt.nz>

Cc: Rowena Tana <rowena@nhht.co.nz>; Jacqui Hori-Hoult <Jacqui.Hori-Hoult@nzta.govt.nz>; Steve Matene <Steve.Matene@nzta.govt.nz>; Pita Tipene <pita@nhht.co.nz>; Kay Davis <kzkrowd@windowlive.com>

Subject: RE: Ruapekapeka Rd Towai

Tēnā koutou,

See correspondence below for some context, Te Ruapekapeka Trust has been working closely with NZTA Waka Kotahi over the years regarding various improvements to State Highway 1 in Towai. Up until recently, NZTA, FNDC and Te Ruapekapeka Trust were working together on a project to undertake corridor widening and safety improvements at the along State Highway 1 at the intersection with Ruapekapeka Road. Consents for the corridor improvements were obtained (refer to one drive link attached), however, both FNDC and NZTA are no longer progressing the works. Up until now, Te Ruapekapeka have been liaising with **Jacqui Hori-Hoult** (Regional Manager Te Tai Tokerau me Tāmaki Makaurau, Maintenance & Operations) who is cc'd to these comms.

As such, Te Ruapekapeka Trust is seeking a new resource consent to erect a wayfinding Pou at the intersection of Ruapekapeka Road and State Highway 1, Towai in the Far North. The wayfinding Pou is the final piece of work associated with the Provincial

Growth Funded project to recognise Ruapekapeka Pā as a nationally significant site and area of significance to Māori.

Resource Consent Details

The Pou is proposed within a site adjoining SH1, legally described as Part Section 9-10 Block V Hukerenui Survey District. The Pou will have a max height of 9.9m, have a width of between approximately 1.5m at the base and 6.3m at its widest and set on a 3m x 3m foundation. As proposed the Pou will be located approximately 0.7m from the legal boundary of Ruapekapeka Road and 5m from SH1.

Resource consents are required to infringe the 10m setback from boundary and sunlight rules. When compared to previous indicative location (shown on the approved plans), the Pou is located outside of the legal road corridor.

Te Ruapekapeka Trust intend on lodging the resource consent and building consent exemption next week, so any comments you from Waka Kotahi's planning team department would be welcome.

The following documents are enclosed at the one drive link below:

- Site plan and elevations of the Pou showing dimensions;
- Topographical survey showing ground levels and key physical features; and
- Approved RC for the Intersection Improvements.

[Te Ruapekapeka Pa Pou - Corner of State Highway 12 and Ruapekapeka Road](#)

There are significant time constraints to complete this project and any assistance you can provide to confirm NZTA's position in relation to this project would be greatly appreciated. If you have any questions, please don't hesitate to contact me.

Ngā mihi | Kind regards,

MAKARENA DALTON



Senior Associate

[027 286 2298](tel:0272862298)

MakarenaD@barker.co.nz

barker.co.nz



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FAR NORTH DISTRICT COUNCIL

**FAR NORTH OPERATIVE DISTRICT PLAN
DECISION ON RESOURCE CONSENT APPLICATION (LANDUSE)**

Resource Consent Number: 2220549-RMALUC

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

Far North District Council

The activity to which this decision relates: Works associated with the seal extension on Ruapekapeka Road from SH 1 at Towai to Ruapekapeka Paa breaching the noise and water setback rules of the District Plan

Subject Site Details

Address:	28 Ruapekapeka Road, Kawakawa 0210
Legal Description:	Lot 1 DP 43558 Lot 1 DP 61839 Pt Lot 1 DP 39703 Sec 128 Pt 8-10 Pt Ruapekapeka 6B2B1 6B1C2B BLK V Hukernui SD
Record of Title reference:	NA-12B/449, NA-12B/7, NA-1338/6, NA-17D/897, NA-20B/1039, NA-1375/53, NA-1072/266, NA-12B/7

Pursuant to Section 108 of the Act, this consent is issued subject to the following conditions:

1. The activity shall be carried out in accordance with the approved plans prepared by NCC Consulting Engineers, referenced Overall Layout Plan, dated 7/9/21, and attached to this consent with the Council's "Approved Stamp" affixed to it.
2. **Hours of operation**
Work is to only take place Monday to Saturday, 7:30am to 6:00pm. No work is to take place on Sundays or public holidays. Furthermore, construction activity which is known to be particularly noisy will be undertaken closer to the middle of the day (11:00 am to 2:00 pm) or at times preferred by neighbours through consultation.
3. **Complaints Register**
A complaints register will be maintained by the Applicants Contractor and action taken to respond to complaints regarding neighbourhood amenity. The complaints register will be emailed to rcmonitoring@fndc.govt.nz upon request.

The applicant's contractor is to ensure the installation of GD05 Sediment control standards, or equivalent for the proportion of the carpark that is outside of the designated area. Evidence of GD05 sediment controls and riparian planting is to be emailed to rcmonitoring@fndc.govt.nz

4. The contractor is to ensure the following is undertake riparian planting within the setback to the waterway following completion of works. The species planted need to be species that will contribute to filtration, shading, and food source for insects, aquatic and avifauna whilst also providing shade to the stream to maintain temperature stability which is beneficial to aquatic fauna. Evidence of completed riparian planting is to be emailed to rcmonitoring@fndc.govt.nz

Advice Notes

1. Archaeological sites are protected pursuant to the Heritage New Zealand Pouhere Taonga Act 2014. It is an offence, pursuant to the Act, to modify, damage or destroy an archaeological site without an archaeological authority issued pursuant to that Act. Should any site be inadvertently uncovered, the procedure is that work should cease, with the Trust and local iwi consulted immediately. The New Zealand Police should also be consulted if the discovery includes koiwi (human remains). A copy of Heritage New Zealand's Archaeological Discovery Protocol (ADP) is attached for your information. This should be made available to all person(s) working on site.

Reasons for the Decision

1. The Council has determined (by way of an earlier report and resolution) that the adverse environmental effects associated with the proposed activity are no more than minor and that there are no affected persons or affected customary rights group or customary marine title group.

2. District Plan Rules Affected:

Rule # & Name	Non-Compliance Aspect	Activity Status
8.6.5.3.4 Construction Noise	There are three dwellings with notional boundaries which are within 150m of the nearest extent of work outside of the designation (carpark and stream realignment). There is a residence associated with the service station that is 40m to the west from the majority of the work to form the stream realignment outside of the designation. The other two residences are located to the north, approximately 150m distant.	Restricted Discretionary
12.7.6.1.1 SETBACK FROM LAKES, RIVERS AND THE COASTAL MARINE AREA	The activity is within 30m of a river.	Discretionary

Adverse effects will be minor:

It is considered the relevant and potential effects have been addressed within the assessment of effects above, and it has been concluded that the adverse effects will be less than minor.

Positive effects of the proposal:

Under s104(1)(a) the positive and potential effects of the proposal are:

- a. Overall, the potential effects on the biodiversity and life supporting capacity of the riparian areas are expected to be positive in the medium to longer term, and water quality improvements are expected in the long-term.
- b. An increase in tourist visitor numbers
- c. Providing a safe, sealed road access.
- d. Reduce dust pollution
- e. Improve travel times
- f. Provide resilience for the state highway network as a detour route for State Highway 1.

Objectives and policies of the District Plan:

The following objectives and policies of the District Plan have been considered:

Noise

- a) Policies 8.4.7 and 8.4.8
- b) Objective 8.3.10

Setbacks to Waterways

- a) Objectives: 12.7.3.1, 12.7.3.2, 12.7.3, 12.7.3.4, 12.7.3.5, 12.7.3.6 and 12.7.3.7
- b) Policies: 12.7.4.1, 12.7.4.2, 12.7.4.3, 12.7.4.4, 12.7.4.5, 12.7.4.6, 12.7.4.7, 12.7.4.8, 12.7.4.9, 12.7.4.11 and 12.4.7.15

The proposal is not contrary to the relevant objectives and policies of the District Plan.

3. In accordance with an assessment under s104(1)(b) of the RMA the proposal is consistent with the relevant statutory documents. [delete or fill in as appropriate]
 - a) The Northland Regional Policy Statement 2018
 - b) Northland Regional Plan 2019
4. No other non – statutory documents were considered relevant in making this decision.
5. No other matters were considered in relevant in making this decision.
6. Part 2 Matters
The Council has taken into account the purpose & principles outlined in sections 5, 6, 7 & 8 of the Act. It is considered that granting this resource consent application achieves the purpose of the Act.
7. In summary it is considered that the activity is consistent with the sustainable management purpose of the RMA.

Approval

This resource consent has been prepared by Trish Routley 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: 26th April 2022

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 Act) 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 Act, this resource consent will lapse 5 years after the date of commencement of consent unless, before the consent lapses;

The consent is given effect to; or

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 Act.

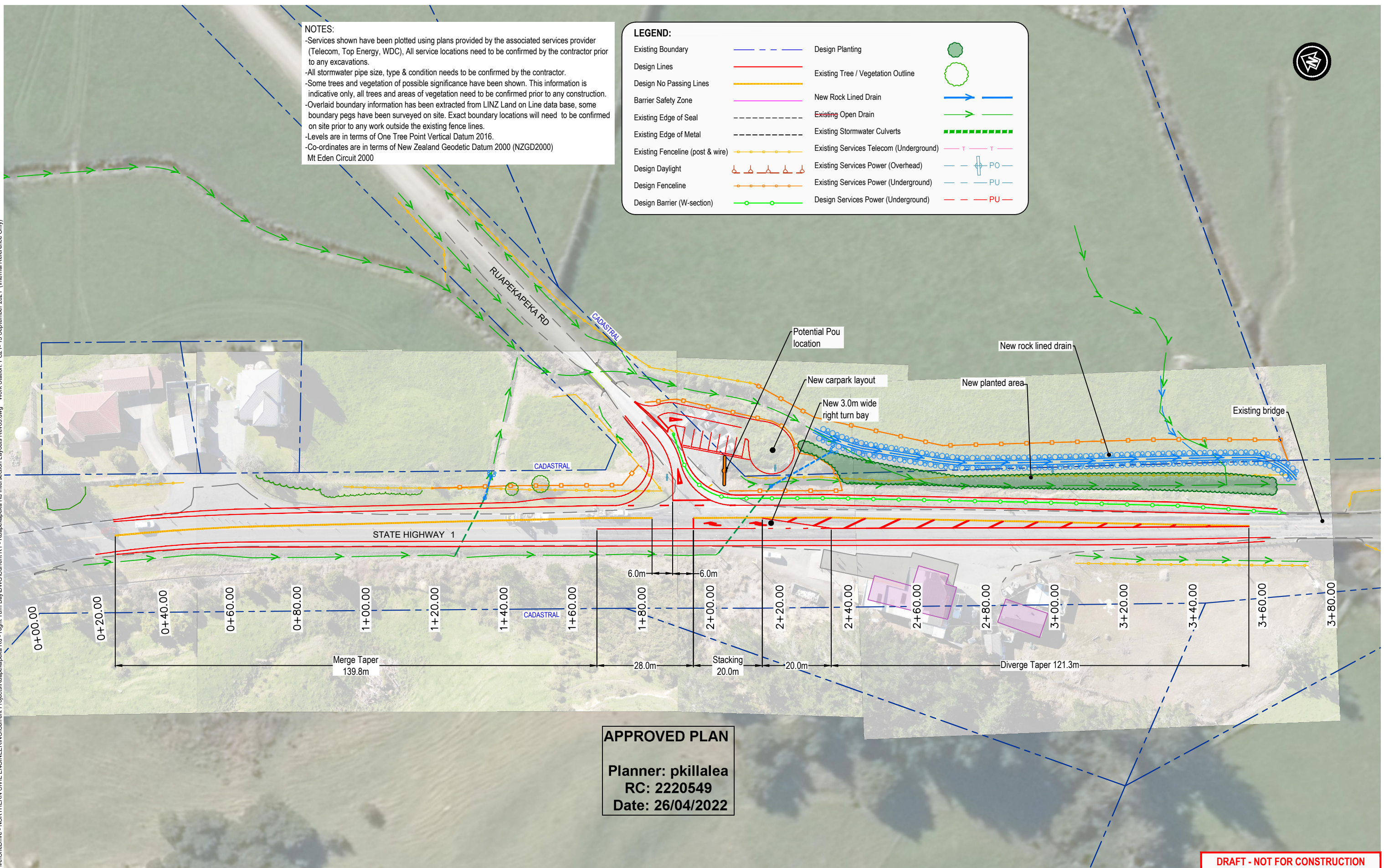
C:\Users\p221\Desktop\One Drive\OneDrive - NORTHERN CIVIL ENGINEERING\Current Projects\Ruapekapeka Rd - Right Turn Bay\DWG\Current R1 - Ruapekapeka Rd Intersection Layouts Rev03.dwg Work Station: PC21-13 September 2021 (Internal Reference Only)

NOTES:

- Services shown have been plotted using plans provided by the associated services provider (Telecom, Top Energy, WDC). All service locations need to be confirmed by the contractor prior to any excavations.
- All stormwater pipe size, type & condition needs to be confirmed by the contractor.
- Some trees and vegetation of possible significance have been shown. This information is indicative only, all trees and areas of vegetation need to be confirmed prior to any construction.
- Overlaid boundary information has been extracted from LINZ Land on Line data base, some boundary pegs have been surveyed on site. Exact boundary locations will need to be confirmed on site prior to any work outside the existing fence lines.
- Levels are in terms of One Tree Point Vertical Datum 2016.
- Co-ordinates are in terms of New Zealand Geodetic Datum 2000 (NZGD2000) Mt Eden Circuit 2000

LEGEND:

Existing Boundary	Design Planting	Existing Tree / Vegetation Outline
Design Lines	Existing Open Drain	Existing Stormwater Culverts
Design No Passing Lines	New Rock Lined Drain	Existing Services Telecom (Underground)
Barrier Safety Zone	Existing Services Power (Overhead)	Existing Services Power (Underground)
Existing Edge of Seal	Existing Services Power (Underground)	Design Services Power (Underground)
Existing Edge of Metal		
Existing Fenceline (post & wire)		
Design Daylight		
Design Fenceline		
Design Barrier (W-section)		



APPROVED PLAN

Planner: pkillalea
RC: 2220549
Date: 26/04/2022

DRAFT - NOT FOR CONSTRUCTION

DRAWN:	B.P.	DATE:	07/09/21	REV.	DRAWING STATUS - DRAFT	BOUNDARY ACCURACY - MED
CHECKED:	C.H.	DATE:	07/09/21			
APPROVED:						

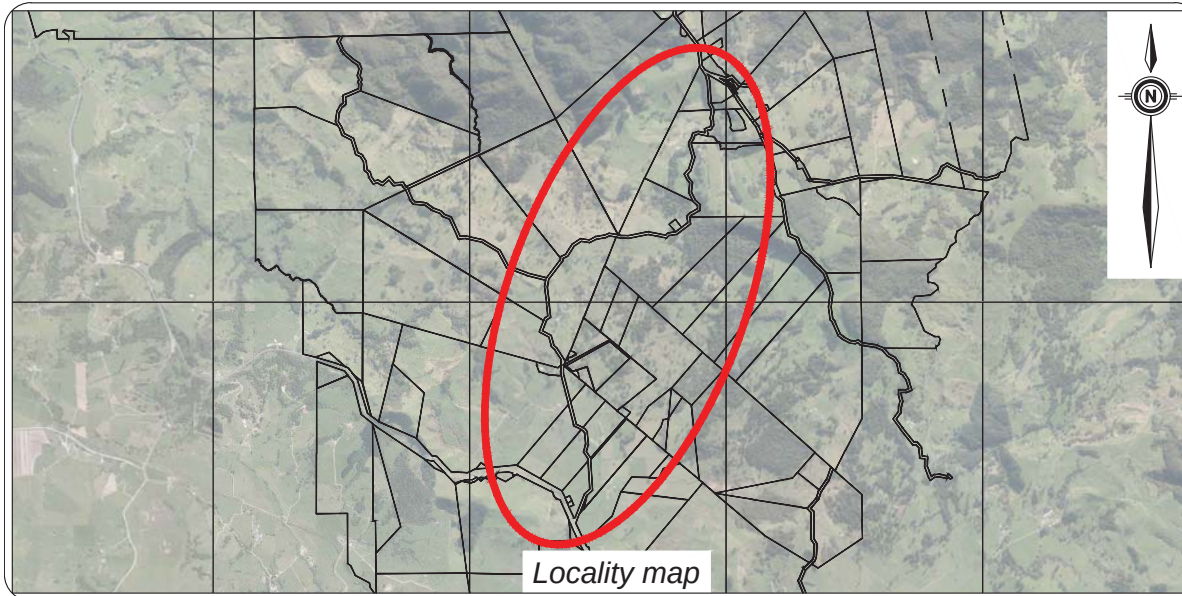


PROJECT:	SH1 / Ruapekapeka Rd Intersection Improvements	JOB NO.	----
TITLE:	OVERALL LAYOUT PLAN	CLIENT REF.	-
SCALE:	1 : 1000	ORIGINAL PAPER SIZE A3	
		SHEET NO.	G1
			RO

Ruapekapeka Road - Seal Extension

Towai, Northland

Far North District Council



Index

Site Location Plan
Key Sheet
Construction Plans
Long Sections
Cross Sections
Typical Details

LP1
K1
P1 - 18
LS1 - 30
CS1 - 44
DE1 - 9



3 Elizabeth Street
Warkworth

T: 09 425 9422
F: 09 425 9431
E: info@haighworkman.co.nz

Job No. 8726

For Approval

April 2021

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Site Location Plan			
Scale	1: 150,000 @A3	Date	26/03/21
Drawn	NS	Checked	JM
Approved	JM		
File	P:\BUSINESS\8000-8999\8726 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4020.DWG		

HAIGH WORKMAN Civil & Structural Engineers	
3 Elizabeth Street Warkworth	T: 09 425 9422 F: 09 425 9431 E: info@haighworkman.co.nz
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Project	Ruapekepeka Road - Seal Extension		DWG No.
Client	Far North District Council		LP1
Project No.	8726	RC no.	Sheet No.
			1 of 1

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Key Sheet

Scale 1:15000@A3



Date 26/03/21

Drawn NS Checked JM Approved JM

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Project Ruapekapeka Road

Client Far North District Council

Project No. 8726

RC no.

DWG No. **K1**

Sheet No. **1 of 1**

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



NA 12B/449
L J Wallace
S L Wallace

RELOCATE FENCE TO BOUNDARY OR
3m OFFSET FROM WORKS AS
DIRECTED BY ENGINEER
BETWEEN CHAINAGE: 124 m TO 250 m

Lot 1 DP 43558

Lot 1 DP 32376

POST & RAIL TO
TIE INTO EXISTING

EXTENT OF WORKS

EXISTING POWER POLES
AND FENCE TO REMAIN

NA 1072/266
L J Wallace
S L Wallace

NA 1375/53
L J Wallace
S L Wallace

CLEAN DRAINAGE OUTLET TO
STREAM (BOTH SIDES OF ROAD)

STATE HIGHWAY 1

RUAPEKAPEKA ROAD

LEGENDS:

PARCEL BDY



SURVEY FENCE



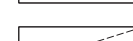
CUT EXTENT



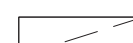
FILL EXTENT



EXISTING ROAD
METAL



EXISTING CL



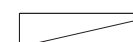
PROPOSED FENCE



PROPOSED SEAL



MAJOR CONTOUR 1m



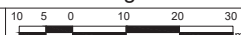
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Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3



Date 26/03/2021

Drawn NS Checked JM Approved JM

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

DWG No.
P1

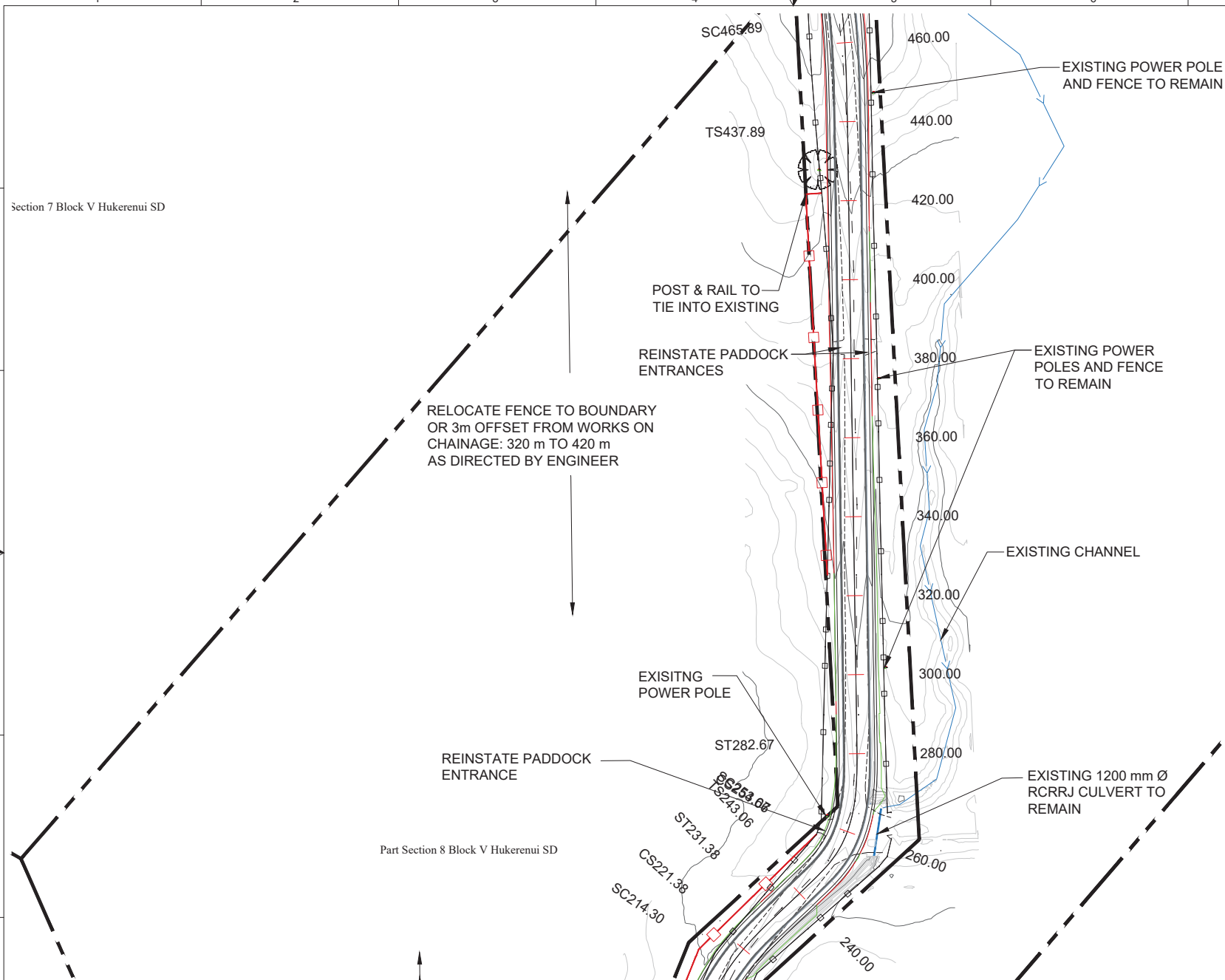
Sheet No.
1 of 18

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Section 7 Block V Hukerenui SD

Part Section 8 Block V Hukerenui SD



LEGENDS:

PARCEL BDY



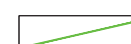
SURVEY FENCE



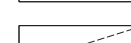
CUT EXTENT



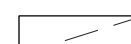
FILL EXTENT



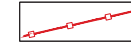
EXISTING ROAD METAL



EXISTING CL



PROPOSED FENCE



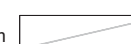
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3

Drawn NS Checked JM Approved JM Date 26/03/2021

File P:\BUSINESS\8000-8999\8726 - FND - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @CH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

DWG No.

P2

Sheet No.

2 of 18

APPROVED PLAN

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



EXTEND 1.2m EXISTING
600 mm Ø RCRRJ CULVERT
INSTALL NEW ENTRY
HEADWALL AND BASIN.

REINSTATE Paddock
ENTRANCE

EXISTING POWER POLE
AND FENCE TO REMAIN

RELOCATE FENCE TO BOUNDARY OR
3m OFFSET FROM WORKS ON
CHAINAGE: 500 m TO 650 m
AS DIRECTED BY ENGINEER

INSTALL NEW 12.5 m
375 mm Ø RCRRJ
CULVERT

EXISTING
POWER POLE

EXISTING POWER POLE
AND FENCE TO REMAIN

LEGENDS:

PARCEL BDY



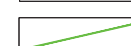
SURVEY FENCE



CUT EXTENT



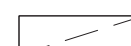
FILL EXTENT



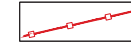
EXISTING ROAD
METAL



EXISTING CL



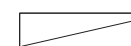
PROPOSED FENCE



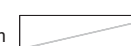
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Construction Drawings	
Scale	1:1000 @A3	Date 26/03/2021
Drawn	NS	Checked JM
Approved	JM	
File	P:\BUSINESS\0000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @CH4020.DWG	

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Project	Ruaapekapeka Road - Seal Extension		DWG No.	P3
Client	Far North District Council		Sheet No.	
Project No.	8726	RC no.		3 of 18

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



RELOCATE FENCE TO
BOUNDARY OR 3m OFFSET
FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 810 m TO 890 m

RELOCATE EXISTING
300 mmØ RCRRJ
CULVERT

RELOCATE FENCE TO BOUNDARY
OR 3m OFFSET FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 700 m TO 790 m

EXISTING POWER POLE
AND FENCE TO REMAIN

EXISTING POWER POLE
AND FENCE TO REMAIN

EXTEND 1.2m EXISTING
600 mmØ RCRRJ CULVERT
INSTALL NEW ENTRY
HEADWALL AND BASIN.

EXISTING POWER POLE
AND FENCE TO REMAIN

LEGENDS:

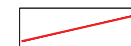
PARCEL BDY



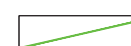
SURVEY FENCE



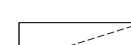
CUT EXTENT



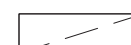
FILL EXTENT



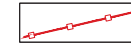
EXISTING ROAD
METAL



EXISTING CL



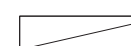
PROPOSED FENCE



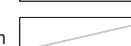
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Construction Drawings		
Scale	1:1000 @A3	10 5 0 10 20 30 m	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH20.DWG		

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Project	Ruapekapeka Road - Seal Extension		DWG No.	P4
Client	Far North District Council		Sheet No.	4 of 18
Project No.	8726	RC no.		

APPROVED PLAN

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



879145
N J Campbell
S J Campbell
RT Trustee 2007 Ltd
UMK Trustee 2007 Ltd

RELOCATE FENCE TO BOUNDARY
OR 3m OFFSET FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 940 m TO 1190 m

Section 5 Block V Hukerenui SD

879145
N J Campbell
S J Campbell
RT Trustee 2007 Ltd
UMK Trustee 2007 Ltd

RELOCATE FENCE TO BOUNDARY
OR 3m OFFSET FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 940 m TO 1190 m

NA 205/143
N J Campbell
S J Campbell
RT Trustee 2007 Ltd
UMK Trustee 2007 Ltd

POST AND RAIL

LEGENDS:

PARCEL BDY



SURVEY FENCE



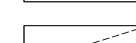
CUT EXTENT



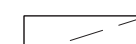
FILL EXTENT



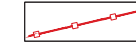
EXISTING ROAD
METAL



EXISTING CL



PROPOSED FENCE



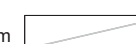
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Construction Drawings		
Scale	1:1000 @A3	10 5 0 10 20 30 m	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH400.DWG		

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Project	Ruaapekapeka Road - Seal Extension		DWG No.	P5
Client	Far North District Council		Sheet No.	5 of 18
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



RELOCATE FENCE TO BOUNDARY OR
3m OFFSET FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 1320 m TO 1400 m

EXISTING 300mm Ø
RCRRJ CULVERT TO
REMAIN

POST AND RAIL

NA 1090/265
M Khan

NA 1090/265
M Khan

Lot 1 DP 196925

95458
J A Croft

EXISTING POWER
POLE TO REMAIN

Lot 1 DP 534060

S J Campbell
UMK Trustee 2007 Ltd

RELOCATE FENCE TO BOUNDARY OR
3m OFFSET FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 1170 m TO 1230 m

Lot 1 DP 323692

RELOCATE FENCE TO BOUNDARY
OR 3m OFFSET FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 940 m TO 1190 m

LEGENDS:

PARCEL BDY



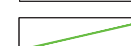
SURVEY FENCE



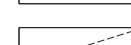
CUT EXTENT



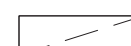
FILL EXTENT



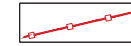
EXISTING ROAD
METAL



EXISTING CL



PROPOSED FENCE



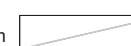
PROPOSED SEAL



MAJOR CONTOUR 1m



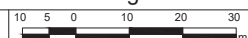
MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3



Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\0000-8999\8700 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

DWG No.

P6

Sheet No.

6 of 18

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



CLEAN EXISTING 300mm
Ø RCRRJ CULVERT
(BLOCKED)

REPLACE EXISTING 450 mm Ø
CULVERT TO 12.5 m 600 mm Ø
RCRRJ CULVERT

EXISTING 300mm Ø RCRRJ
CULVERT TO REMAIN

PROPOSED 12.5m 300mm Ø
RCRRJ CULVERT

EXISTING POWER
POLE AND FENCE TO REMAIN

RELOCATE FENCE TO BOUNDARY OR
3m OFFSET FROM WORKS
AS DIRECTED BY ENGINEER
CHAINAGE: 1320 m TO 1400 m

POST AND RAIL

LEGENDS:

PARCEL BDY



SURVEY FENCE



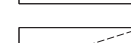
CUT EXTENT



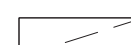
FILL EXTENT



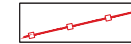
EXISTING ROAD
METAL



EXISTING CL



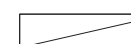
PROPOSED FENCE



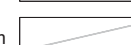
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3



Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\0000-8999\8700 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH20.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

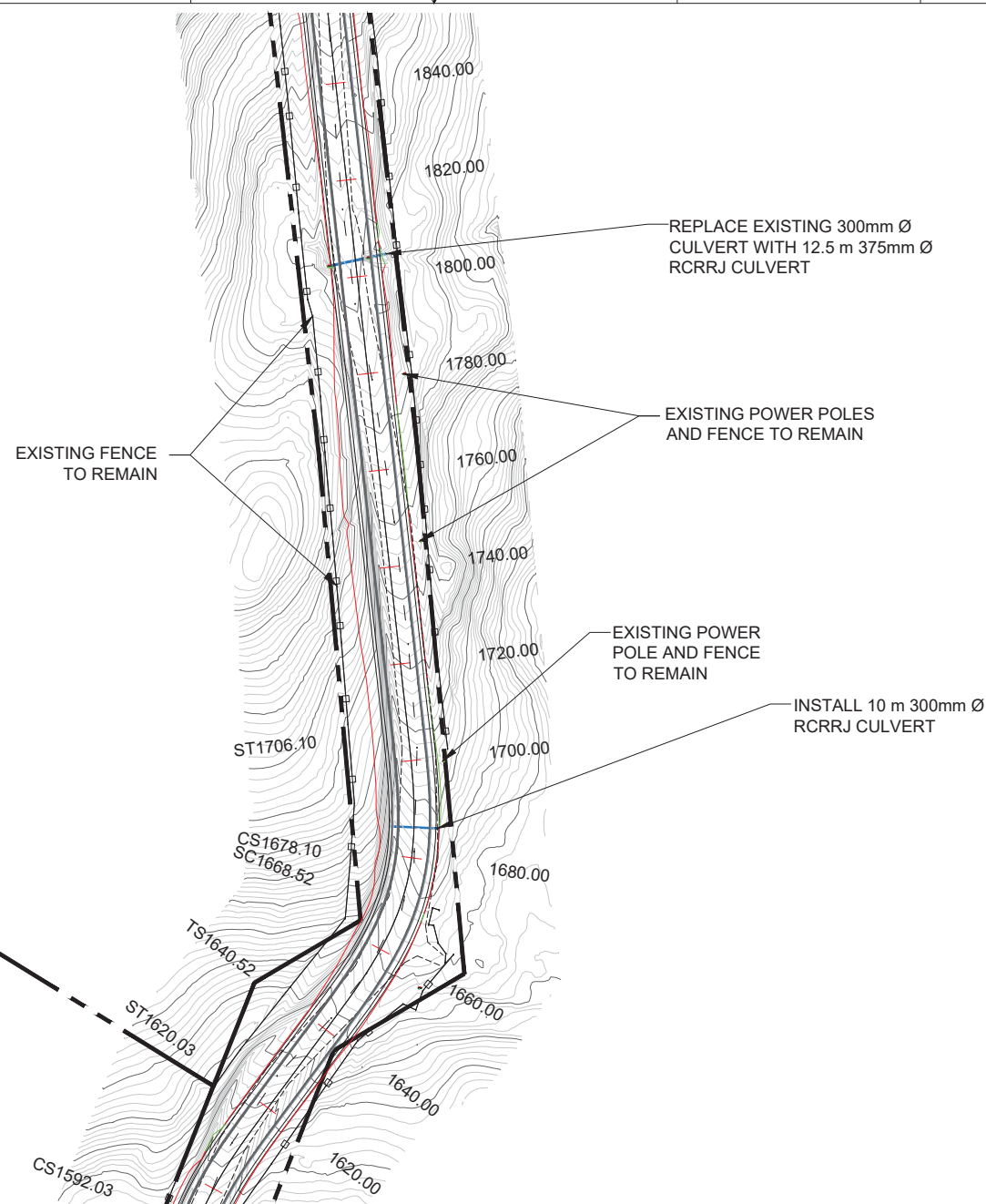
RC no.

DWG No.

P7

Sheet No.

7 of 18



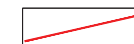
PARCEL BDY



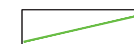
SURVEY FENCE



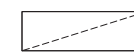
CUT EXTENT



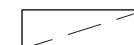
FILL EXTENT



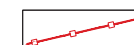
EXISTING ROAD
METAL



EXISTING CL



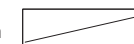
PROPOSED FENCE



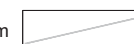
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:2000 @A3

Drawn	NS	Checked	JM	Approved	JM
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File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\ROADING\DRAWINGS\8726 - V19 B&W DESIGN
CONSTRUCTION DRAWINGS - K&C EXTENDED @CH020.DWG



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Project	Ruapekapeka Road - Seal Extension
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22	Client	Far North District Council
31		
nz		

Project No.	8726
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RC no.

DWG No.

P8

Sheet No.

8 of 18

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



ENK TRUSTEE LIMITED

EXISTING FENCE
TO REMAIN

R 9.00m

KEOGH ROAD

R 8.00m

NA 725/246
ENK TRUSTEE LIMITEDEXISTING FENCE
TO REMAIN

TS1866.47

SC1916.47

CS1942.92

CREST 1959.84

ST1992.32

TC2088.09
SAG2084.99

CLEAN WATER OUTLET

RELOCATE FENCE TO BOUNDARY OR
3m OFFSET FROM WORKS AS
DIRECTED BY ENGINEER
CHAINAGE: 1950 m TO 2100 m

NA 703/171
M KHAN

LEGENDS:

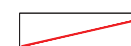
PARCEL BDY



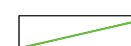
SURVEY FENCE



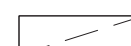
CUT EXTENT



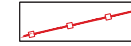
FILL EXTENT

EXISTING ROAD
METAL

EXISTING CL



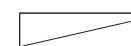
PROPOSED FENCE



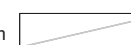
PROPOSED SEAL



MAJOR CONTOUR 1m



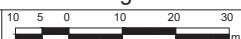
MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3



Date 26/03/2021

Drawn NS

Checked JM

Approved JM

File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @CH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

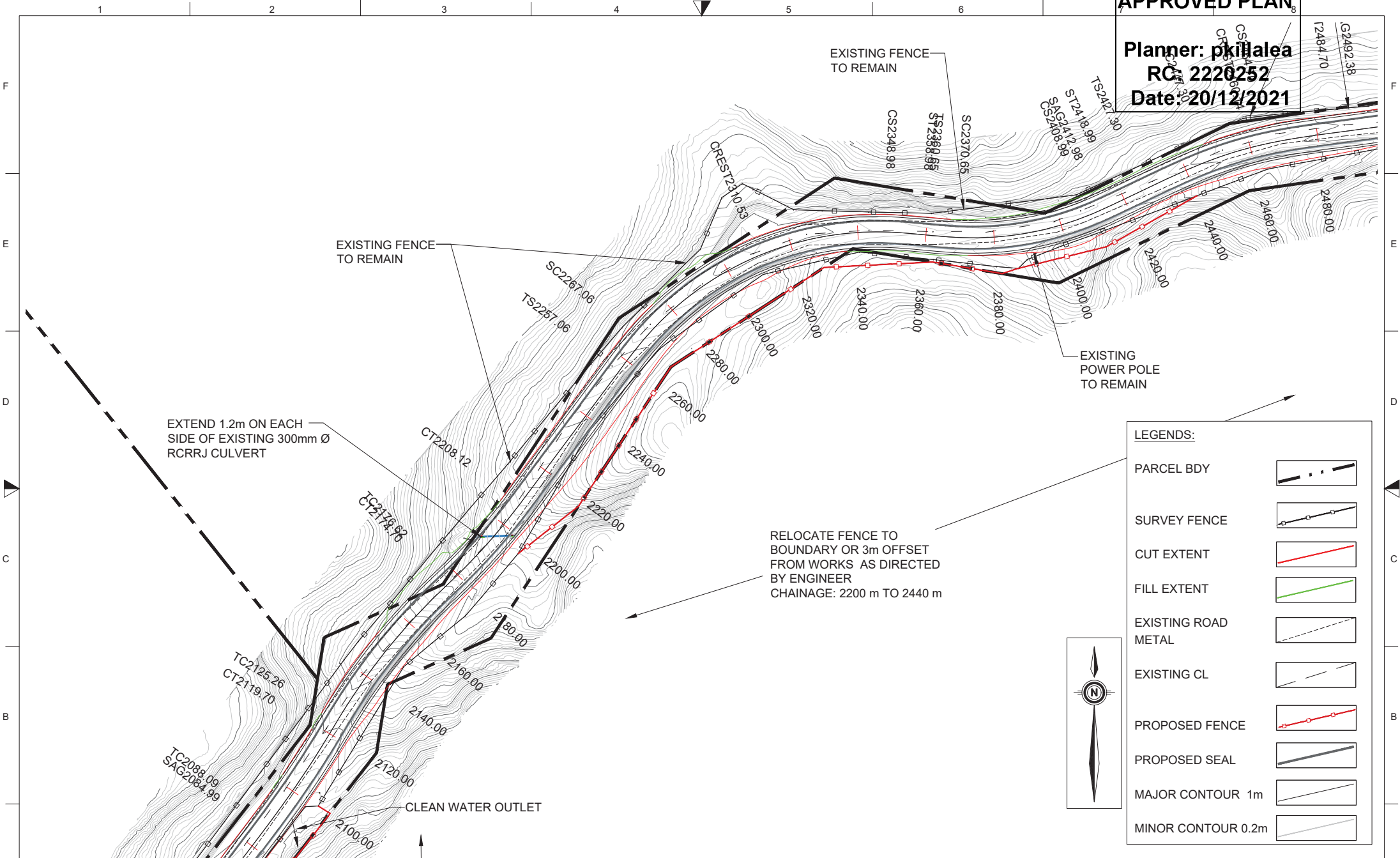
DWG No.

P9

Sheet No.

9 of 18

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Planner: pkillalea
RC: 2220252
Date: 20/12/2021

RELOCATE FENCE TO
BOUNDARY OR 3m OFFSET
FROM WORKS AS DIRECTED
BY ENGINEER
CHAINAGE: 2520 m TO 2620 m

EXISTING FENCE
TO REMAIN

EXISTING FENCE
TO REMAIN

EXISTING POWER
POLE AND FENCE
TO REMAIN

EXISTING POWER
POLES AND FENCE
TO REMAIN

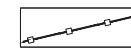
EXISTING
POWER POLE
TO REMAIN

LEGENDS:

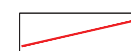
PARCEL BDY



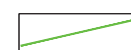
SURVEY FENCE



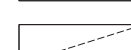
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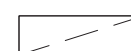
FILL EXTENT



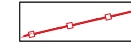
EXISTING ROAD
METAL



EXISTING CL



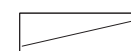
PROPOSED FENCE



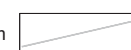
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m

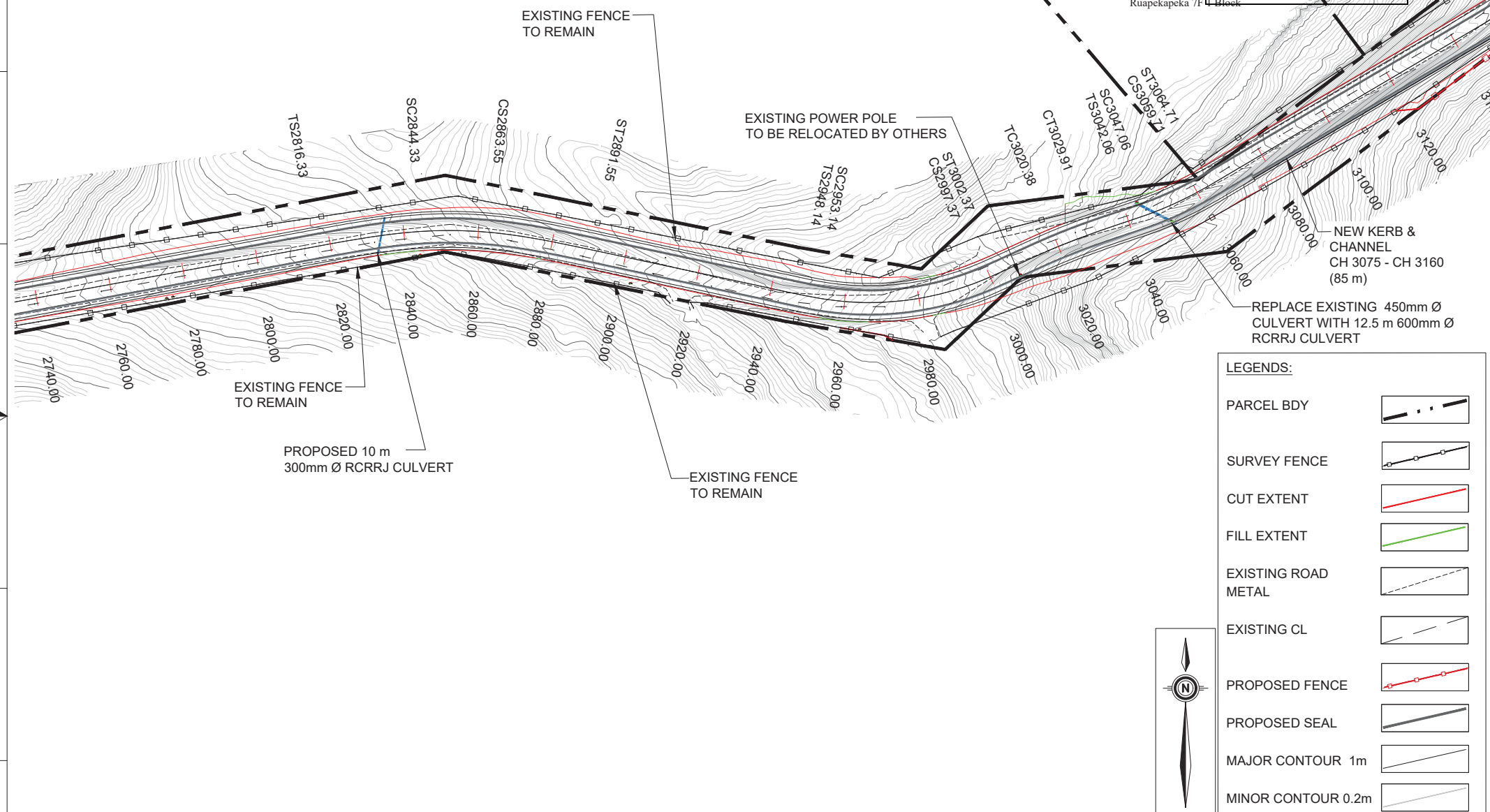


Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Construction Drawings		
Scale	1:1000 @A3	10 5 0 10 20 30 m	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\0000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROADING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH400.DWG		

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Project	Ruaapekapeka Road - Seal Extension		DWG No.
Client	Far North District Council		P11
Project No.	8726	RC no.	Sheet No.
			11 of 18



Issue	Date	Revision	DWG Ruaapeka Road Construction Drawings Scale 1:1000 @A3 1052030 m Date 26/03/2021 Drawn NS Checked JM Approved JM File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\DRAWING\8726 - V19 B&W DESIGN - CONSTRUCTION DRAWINGS - A&C\8726\8726.dwg <td> </</td>	</
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Planner: pkillalea
RC: 2220252
Date: 20/12/2021



RELOCATE FENCE TO
BOUNDARY OR 3m OFFSET
FROM WORKS AS DIRECTED
BY ENGINEER
CHAINAGE: 3230 m TO 3390 m

INSTALL NEW 10 m
450mm Ø RCRRJ
CULVERT

EXISTING FENCE
TO REMAIN

NEW KERB & CHANNEL
CH 3340 - CH 4020 (680 m)

CREST AT CH 3324 m

REGRADE WATER CHANNEL
OVER CREST (CH 3324 m)

EXISTING FENCE
TO REMAIN

REPLACE EXISTING 300mm Ø CULVERT
WITH 12.5 m 450mm Ø RCRRJ CULVERT

NEW KERB & CHANNEL
CH 3075 - CH 3160 (85 m)

RELOCATE FENCE TO
BOUNDARY OR 3m OFFSET
FROM WORKS AS DIRECTED
BY ENGINEER
CHAINAGE: 3120 m TO 3170 m

LEGENDS:

PARCEL BDY



SURVEY FENCE



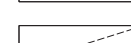
CUT EXTENT



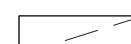
FILL EXTENT



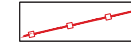
EXISTING ROAD
METAL



EXISTING CL



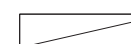
PROPOSED FENCE



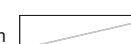
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3



Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @CH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

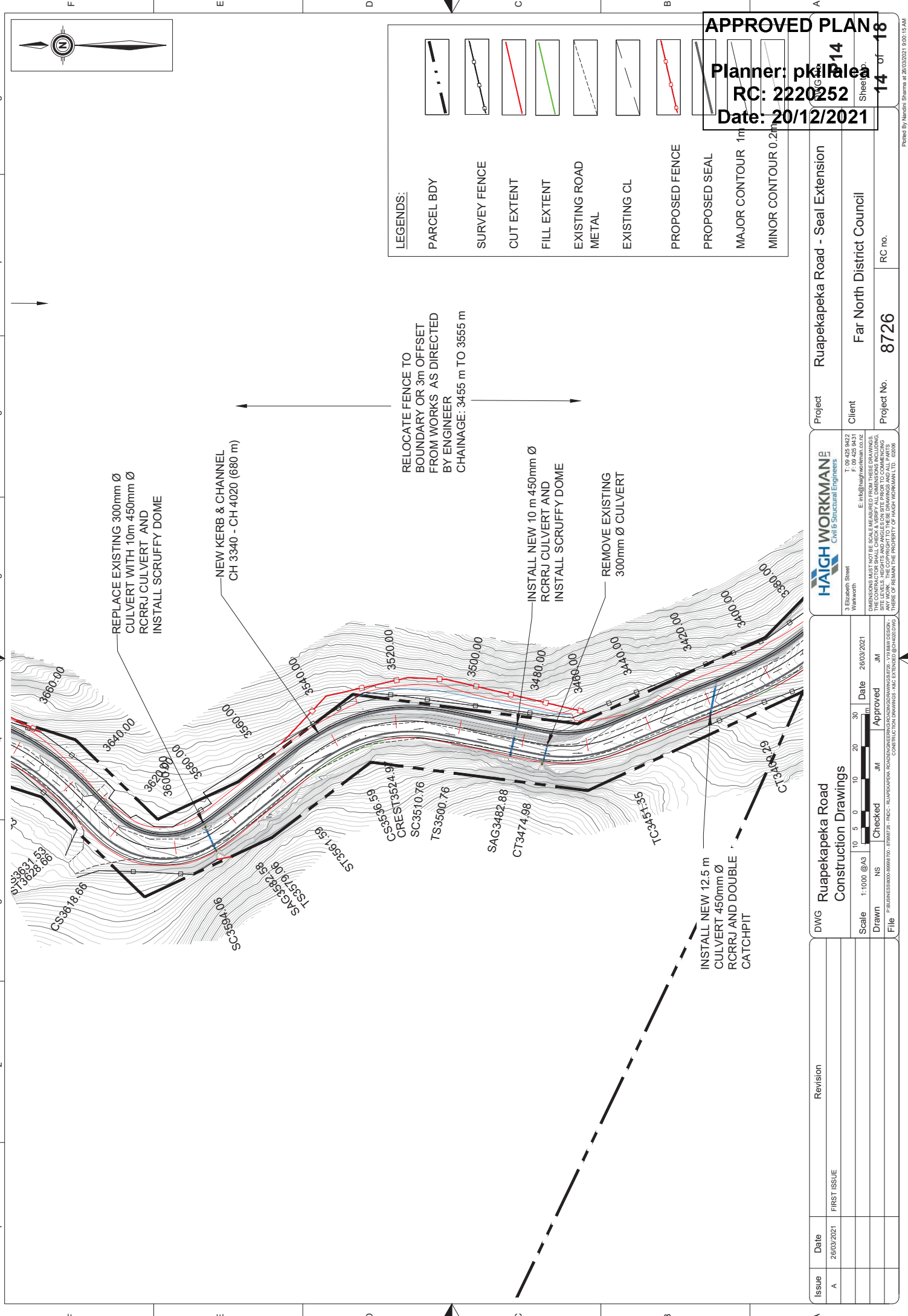
RC no.

DWG No.

P13

Sheet No.

13 of 18



LEGENDS:

PARCEL BDY

SURVEY FENCE

CUT EXTENT

FILL EXTENT

EXISTING ROAD METAL

EXISTING CL

PROPOSED FENCE

PROPOSED SEAL

MAJOR CONTOUR 1m

MINOR CONTOUR 0.2m

APPROVED PLAN
Planner: pki14
RC: 2220252
Date: 20/12/2021

Project Ruapekapeka Road - Seal Extension
Client Far North District Council
Project No. 8726
RC no.

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DWG Ruapekapeka Road
Construction Drawings
Scale 1:1000 @A3
Drawn NS
Checked JM
Approved JM
Date 26/03/2021
File

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

APPROVED PLAN

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



INSTALL NEW 10 m 300mm Ø RCRRJ
CULVERT AND DOUBLE CATCHPIT
(NOTE: CHECK OUTLET
CONDITIONS BEFORE INSTALLING)

Lot 1 DP 104174

ekapeka 7G Block

REPLACE EXISTING 300mm Ø
CULVERT WITH 10 m 450mm Ø
RCRRJ CULVERT AND INSTALL
SCRUFFY DOME

NEW KERB & CHANNEL
CH 3340 - CH 4020 (680 m)

RELOCATE FENCE TO
BOUNDARY OR 3m OFFSET
FROM WORKS AS DIRECTED
BY ENGINEER
CHAINAGE: 3660 m TO 4015 m

INSTALL NEW 10 m
450mm Ø RCRRJ
CULVERT AND
DOUBLE CATCHPIT

LEGENDS:

PARCEL BDY



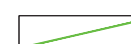
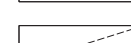
SURVEY FENCE



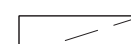
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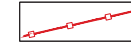
FILL EXTENT

EXISTING ROAD
METAL

EXISTING CL



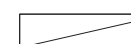
PROPOSED FENCE



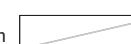
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Construction Drawings		
Scale	1:1000 @A3	10 5 0 10 20 30 m	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\0000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH400.DWG		

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Project	Ruaapekapeka Road - Seal Extension		DWG No.	P15
Client	Far North District Council		Sheet No.	15 of 18
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



INSTALL NEW 10 m 300mm
Ø RCRRJ CULVERT AND
DOUBLE CATCHPIT

REPLACE EXISTING
900mm Ø CULVERT WITH
20 m 2100mm Ø RCRRJ
CULVERT (REFER TO
CULVERT DETAIL SHEET)

REPLACE EXISTING
300mm Ø CULVERT
WITH 17.5 m 675mm Ø
RCRRJ CULVERT

NEW KERB & CHANNEL
CH 4105 - CH 4135 (30 m)

INSTALL NEW 15 m
300mm Ø RCRRJ
CULVERT

NEW KERB & CHANNEL
CH 4025 - CH 4060 (35 m)

POST AND RAIL

NEW KERB & CHANNEL
CH 3340 - CH 4020 (680 m)

Lot 1 DP 104174

Part Ruapekapeka 7E Block

LEGENDS:

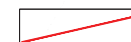
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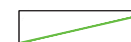
SURVEY FENCE



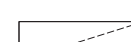
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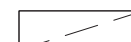
FILL EXTENT



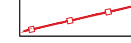
EXISTING ROAD
METAL



EXISTING CL



PROPOSED FENCE



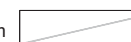
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Construction Drawings		
Scale	1:1000 @A3	10 5 0 10 20 30 m	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - V19 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED\874020.DWG		

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Project	Ruapekapeka Road - Seal Extension		DWG No.	P16
Client	Far North District Council		Sheet No.	16 of 18
Project No.	8726	RC no.		

APPROVED PLAN

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Part Huiarau Block

INSTALL NEW 10 m
375mm Ø RCRRJ
CULVERT AND INSTALL
DOUBLE CATCHPIT

KERB & CHANNEL
CH 4200 - CH 4485 (285 m)

RETAINING WALL
CH 4200 - CH 4485
REFER TO RETAINING WALL SHEETS

REPLACE EXISTING 300mm Ø RCRRJ
CULVERT WITH 17.5 m 600mm Ø
RCRRJ CULVERT

Part Huiarau Block

LEGENDS:

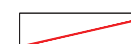
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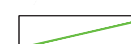
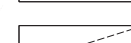
SURVEY FENCE



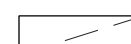
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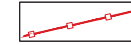
FILL EXTENT

EXISTING ROAD
METAL

EXISTING CL



PROPOSED FENCE



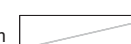
PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3



Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\0000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH400.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

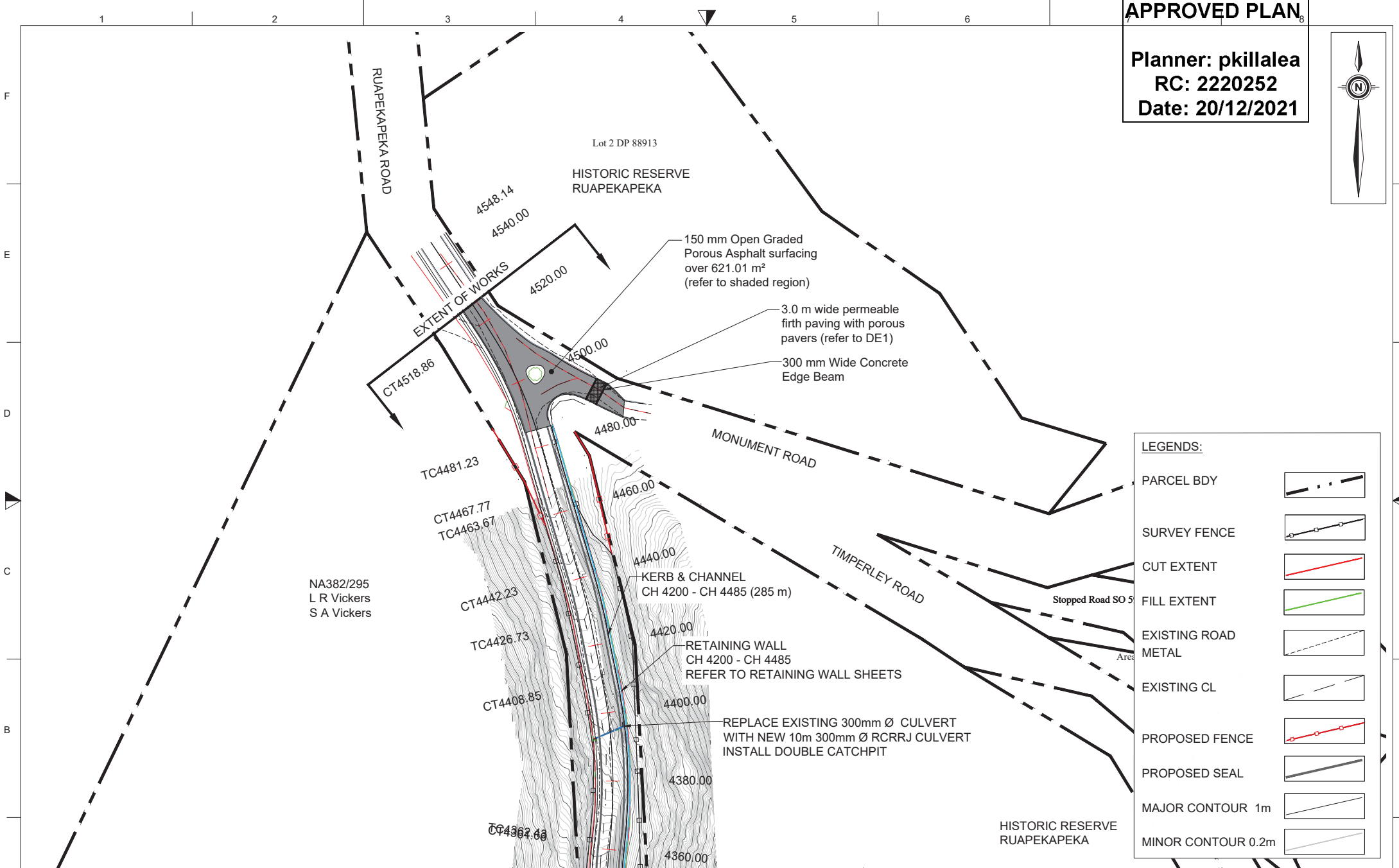
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DWG No.

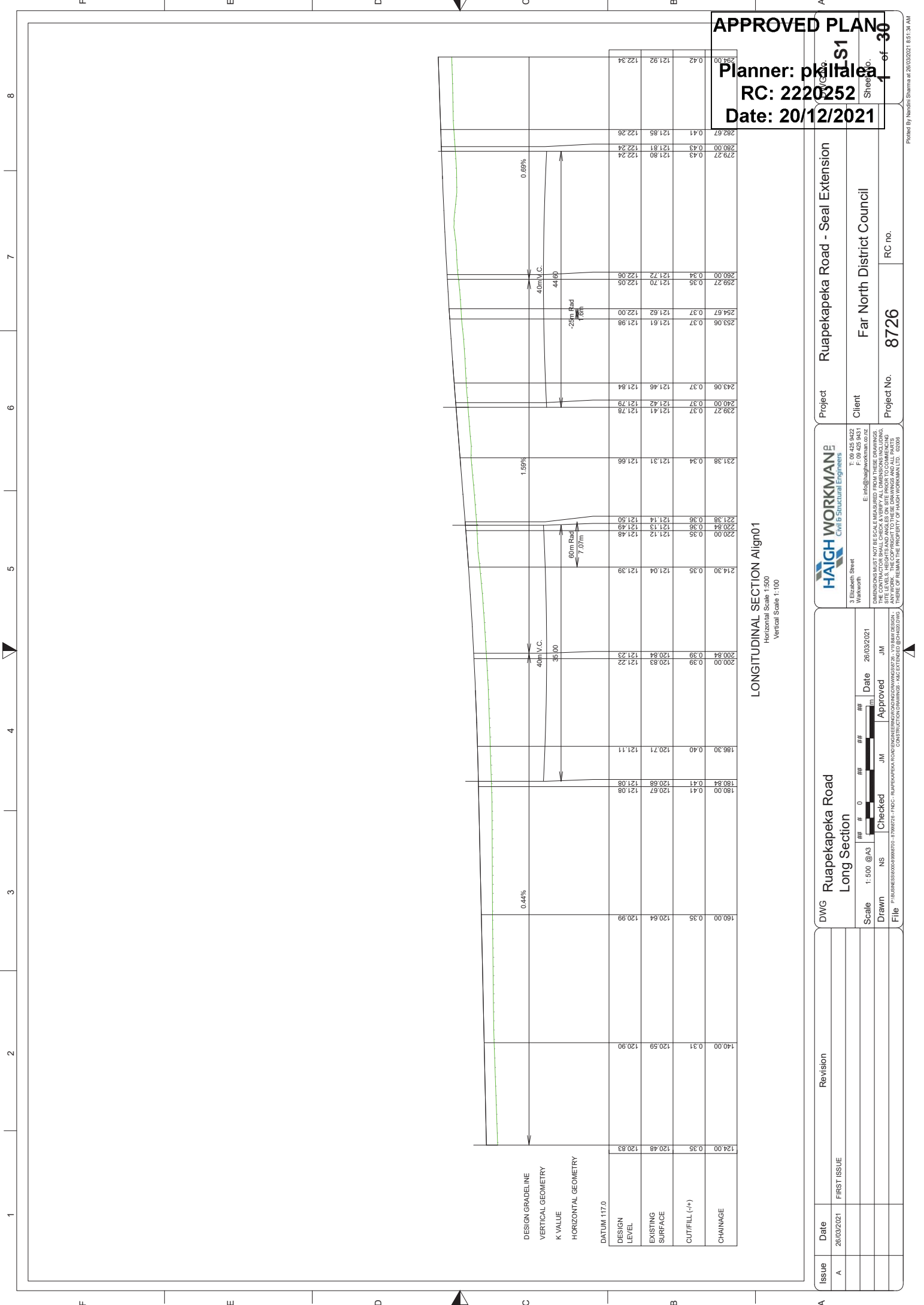
P17

Sheet No.

17 of 18



A	Issue	Date	Revision	DWG Ruapekapeka Road Construction Drawings	 HAIGH WORKMAN Civil & Structural Engineers 3 Elizabeth Street Warkworth T: 09 425 9422 F: 09 425 9431 E: info@haighworkman.co.nz DIMENSIONS MUST NOT BE SCALE MEASURED FROM THESE DRAWINGS. THE CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS INCLUDING, SITE LEVELS, HEIGHTS AND ANGLES ON SITE PRIOR TO COMMENCING ANY WORK. THE COPYRIGHT IN THESE DRAWINGS AND ALL PARTS THERE OF REMAIN THE PROPERTY OF HAIGH WORKMAN LTD. ©2008	Project Ruapekapeka Road - Seal Extension	DWG No. P18
	A	26/03/2021	FIRST ISSUE			Client Far North District Council	Sheet No. 18 of 18
						Project No. 8726	RC no.



APPROVED PLAN
Planner: **pkhalea**
RC: **2220252**
Date: **20/12/2021**

Project	Ruapekapeka Road - Seal Extension
Client	Far North District Council
Project No.	8726
RC no.	



3 Elizabeth Street
Worktown

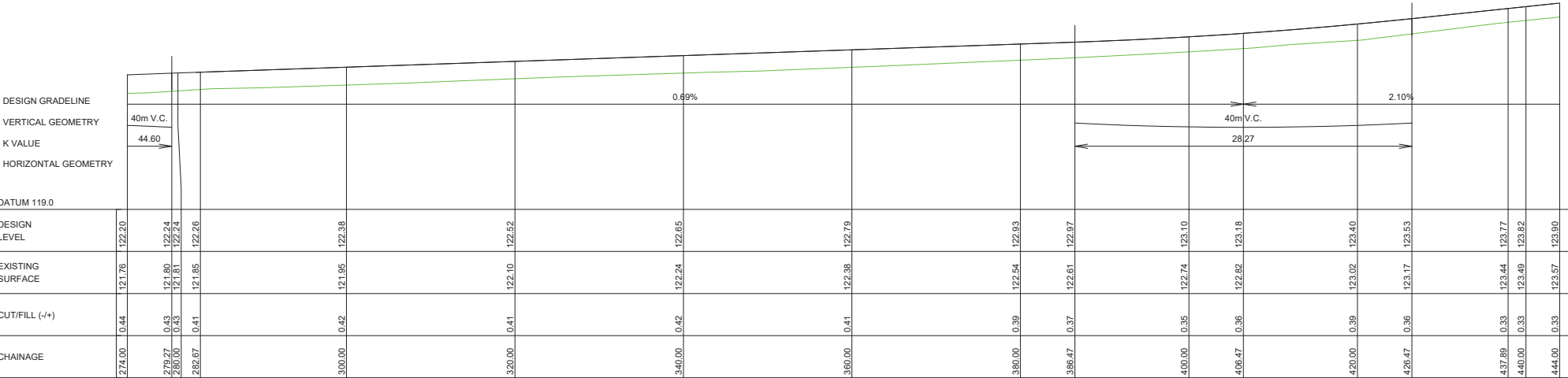
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DWG	Ruapekapeka Road Long Section	Scale	1:500 @A3	Drawn	NS	Checked	JM	Approved	JM	Date	26/03/2021
Issue	Date	26/03/2021	First Issue								

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\0000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROADING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH400.DWG		

3 Elizabeth Street
Warkworth

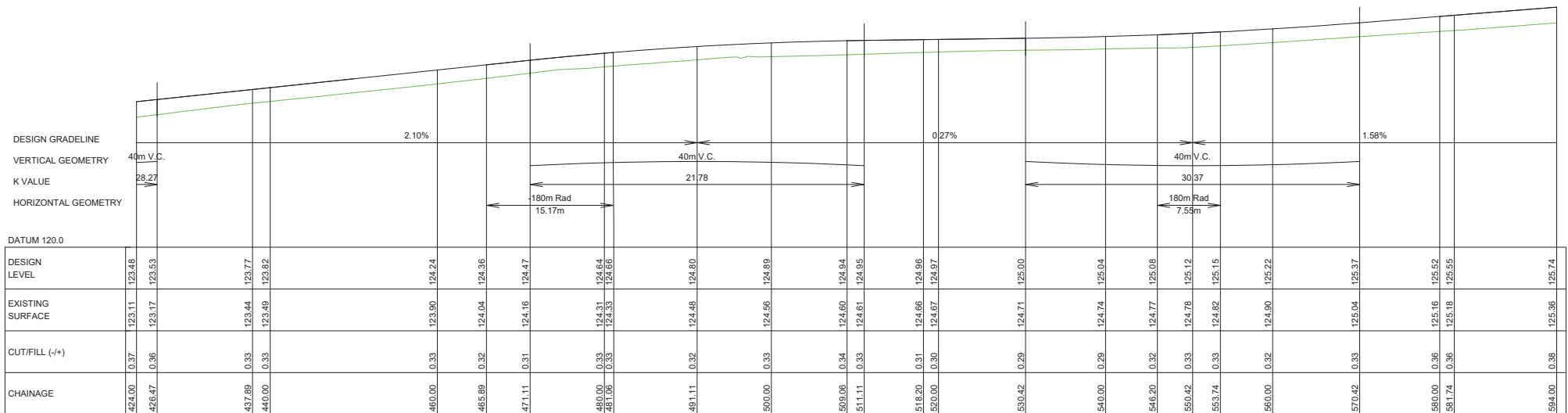
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Project	Ruapekapeka Road - Seal Extension	
Client	Far North District Council	
Project No.	8726	RC no.

DWG No.	LS2
Sheet No.	2 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

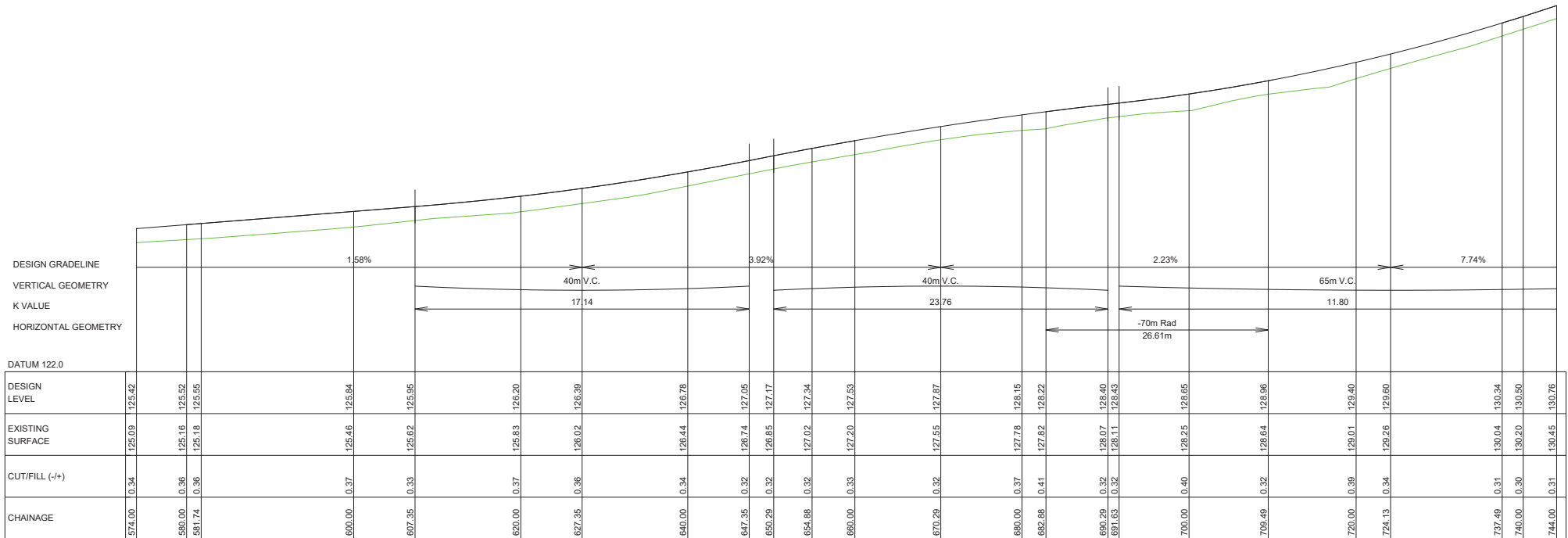
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section			
Scale	1: 500 @A3	## # 0 ## ## ##	Date	26/03/2021
Drawn	NS	Checked JM	Approved JM	
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH020.DWG			

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Project		Ruapekepeka Road - Seal Extension		DWG No.
Client		Far North District Council		LS3
Project No.		8726	RC no.	Sheet No. 3 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

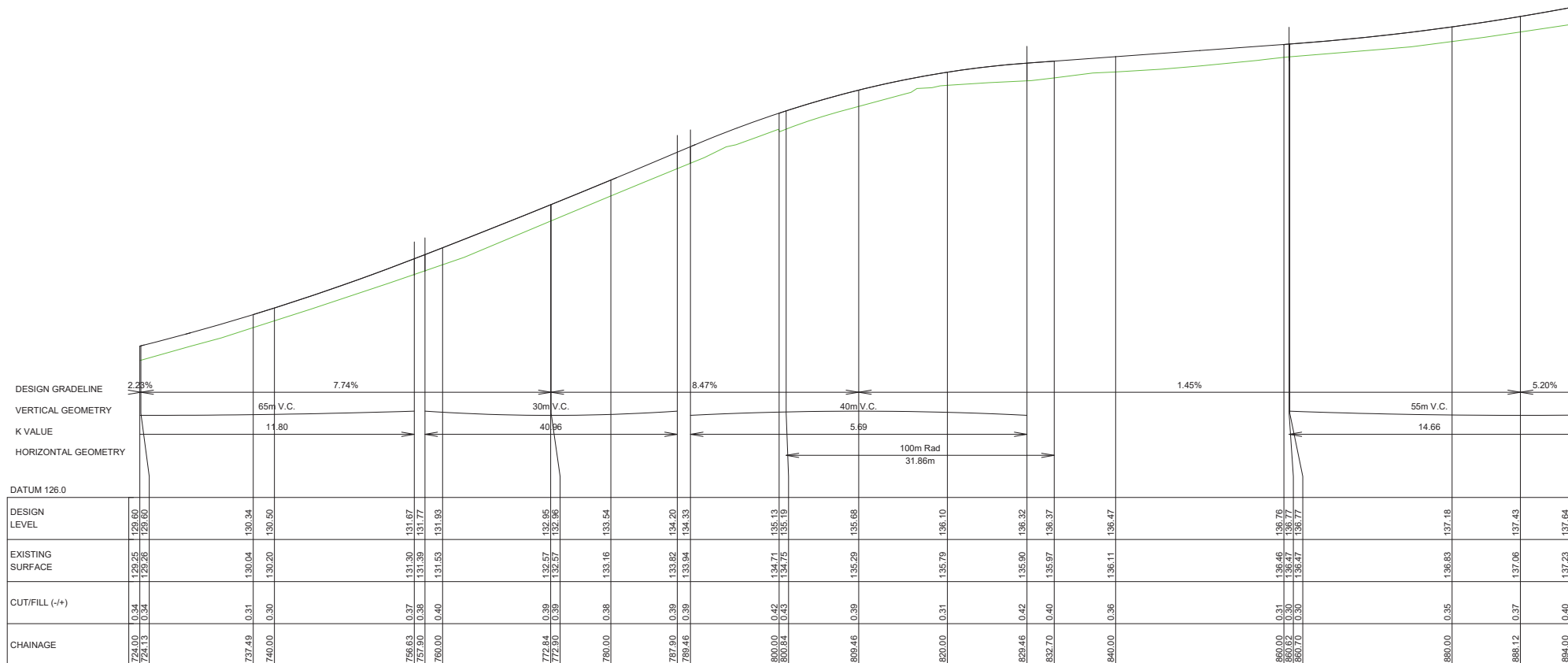
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Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section	
Scale	1: 500 @A3	Date 26/03/2021
Drawn	NS	Checked JM
Approved	JM	
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @CH4020.DWG	

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Project		Ruapekepeka Road - Seal Extension		DWG No.	
Client		Far North District Council		LS4	
Project No.		8726		Sheet No.	
RC no.				4 of 30	



Horizontal Scale 1:500
Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

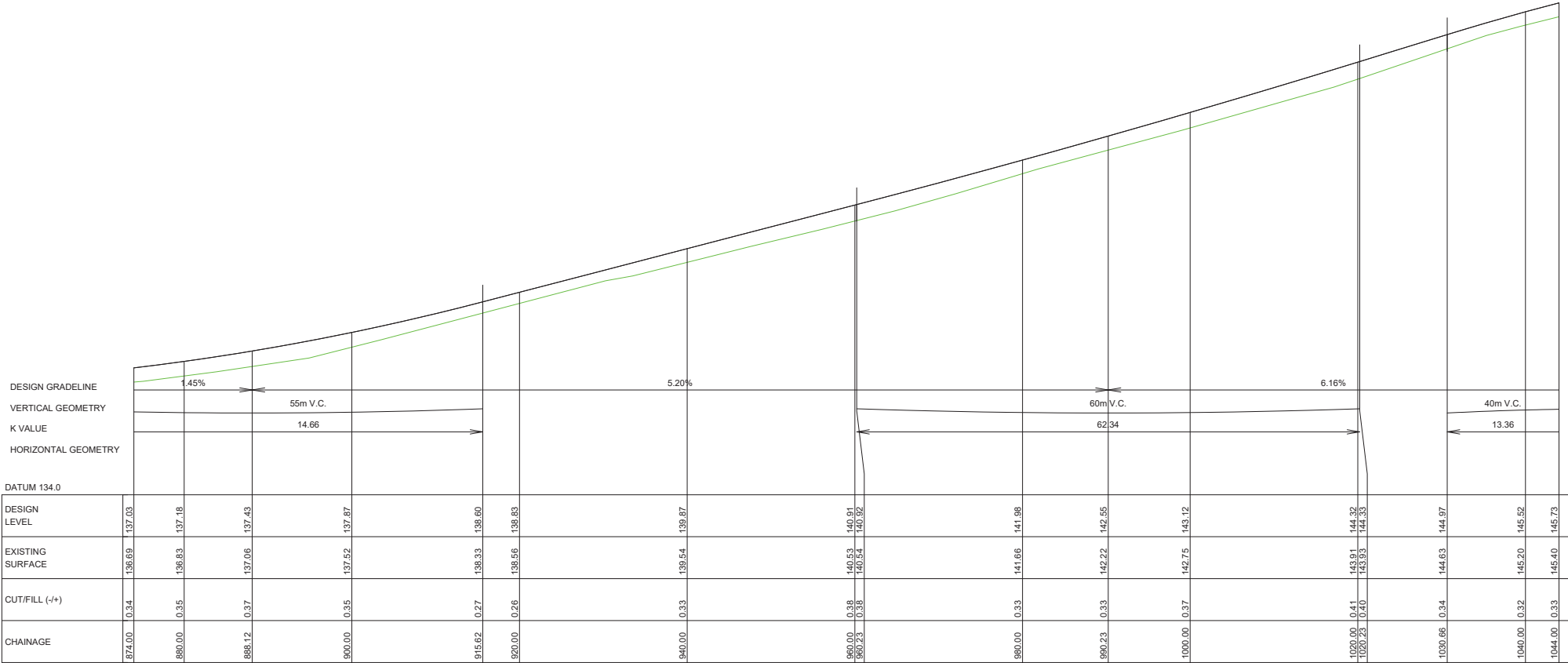
DWG		Ruapekapeka Road Long Section			
Scale	1: 500 @A3	### # 0 ###	###	Date	26/03/2021
	Drawn				
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDG - RUAPAKEKA ROAD\ENGINEERING\DRAWINGS\8726 - V19 JBW DESIGN CONSTRUCTION DRAWINGS - JAC EXTENDED ARCH\8000.DWG	NS	Checked JM	Approved JM	JBM



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02 01 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	Project Ruapekepeka Road - Seal Extension		DWG No. LS5
	Client Far North District Council		
	Project No. 8726	RC no.	Sheet No. 5 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01
Horizontal Scale 1:500
Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG

Ruapekapeka Road
Long Section

Scale

1: 500 @A3

Drawn

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Checked

JM

Approved

JM

Date

26/03/2021

HAIGH WORKMAN

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Project

Ruapekapeka Road - Seal Extension

Client

Far North District Council

Project No.

8726

RC no.

DWG No.

LS6

Sheet No.

6 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

DESIGN GRADELINE
VERTICAL GEOMETRY
K VALUE
HORIZONTAL GEOMETRY

DATUM 141.0

DESIGN LEVEL	144.56	144.97	145.52	146.05	146.46	146.84	147.14	147.26	147.54	147.75	147.77	148.51	148.71	149.47	149.99	150.60	150.92	151.15	151.71	151.94	151.98	152.30	152.35
EXISTING SURFACE	144.18	144.63	145.20	145.73	146.12	146.52	146.79	146.90	147.18	147.44	147.46	148.23	148.41	149.13	149.62	150.20	150.54	150.76	151.40	151.63	151.68	151.99	152.03
CUT/FILL (+/-)	0.38	0.34	0.32	0.33	0.34	0.32	0.34	0.36	0.36	0.31	0.31	0.28	0.30	0.34	0.37	0.39	0.38	0.39	0.31	0.31	0.30	0.31	0.32
CHAINAGE	1024.00	1030.66	1040.00	1050.66	1060.00	1070.66	1080.00	1083.76	1092.73	1099.44	1100.00	1120.00	1124.44	1140.00	1149.44	1160.00	1165.51	1169.55	1180.00	1184.55	1185.51	1192.81	1194.00

LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG

Ruapeka Road
Long Section

Scale 1: 500 @A3



Date 26/03/2021

Drawn NS

Checked JM

Approved JM

File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH020.DWG

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Project Ruapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

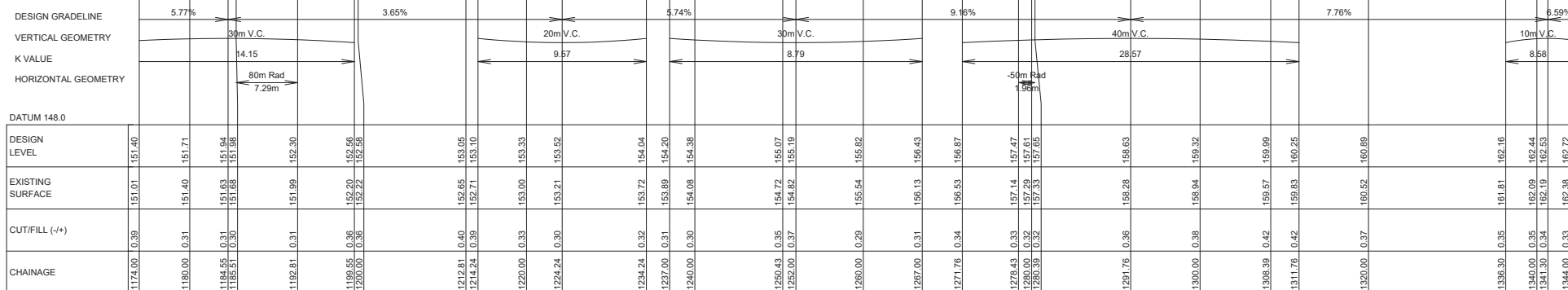
DWG No.

LS7

Sheet No.

7 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500
Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Long Section

Scale 1: 500 @A3

Drawn NS Checked JM Approved JM Date 26/03/2021

File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH400.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

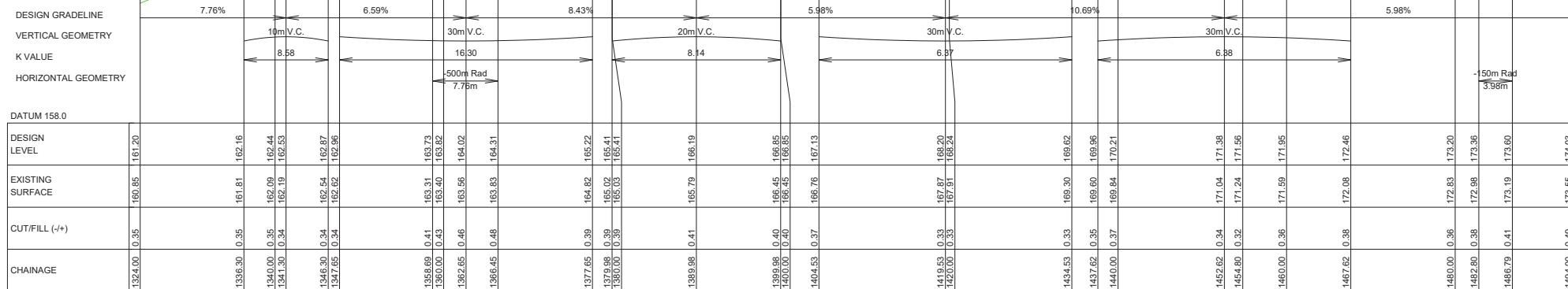
RC no.

DWG No.

LS8

Sheet No.

8 of 30



Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruapekapeka Road Long Section			
Scale	1: 500 @A3	### # 0 ### ##		Date	26/03/2021
	Drawn NS	Checked JM	Approved JM		
File	P:\BUSINESS\8000-8999\8700 - 8799\726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\DRAWING\DRAWING\8726 - V19 BAW DESIGN CONSTRUCTION DRAWINGS - MAG EXTENDED ARCH460.DWG				



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	Client Far North District Council		Sheet No. 9 of 30
	Project No. 8726	RC no.	

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

DESIGN GRADELINE
VERTICAL GEOMETRY
K VALUE
HORIZONTAL GEOMETRY

DATUM 169.0

DESIGN LEVEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Long Section	
Scale	1: 500 @A3	Date 26/03/2021
Drawn	NS	Checked JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @CH4020.DWG	



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Project	Ruaapekapeka Road - Seal Extension		DWG No.	LS10
Client	Far North District Council		Sheet No.	10 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

DESIGN GRADELINE
VERTICAL GEOMETRY
K VALUE
HORIZONTAL GEOMETRY

DATUM 179.0

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LONGITUDINAL SECTION Align01

Horizontal Scale 1:500
Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Long Section

Scale 1: 500 @A3

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH400.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

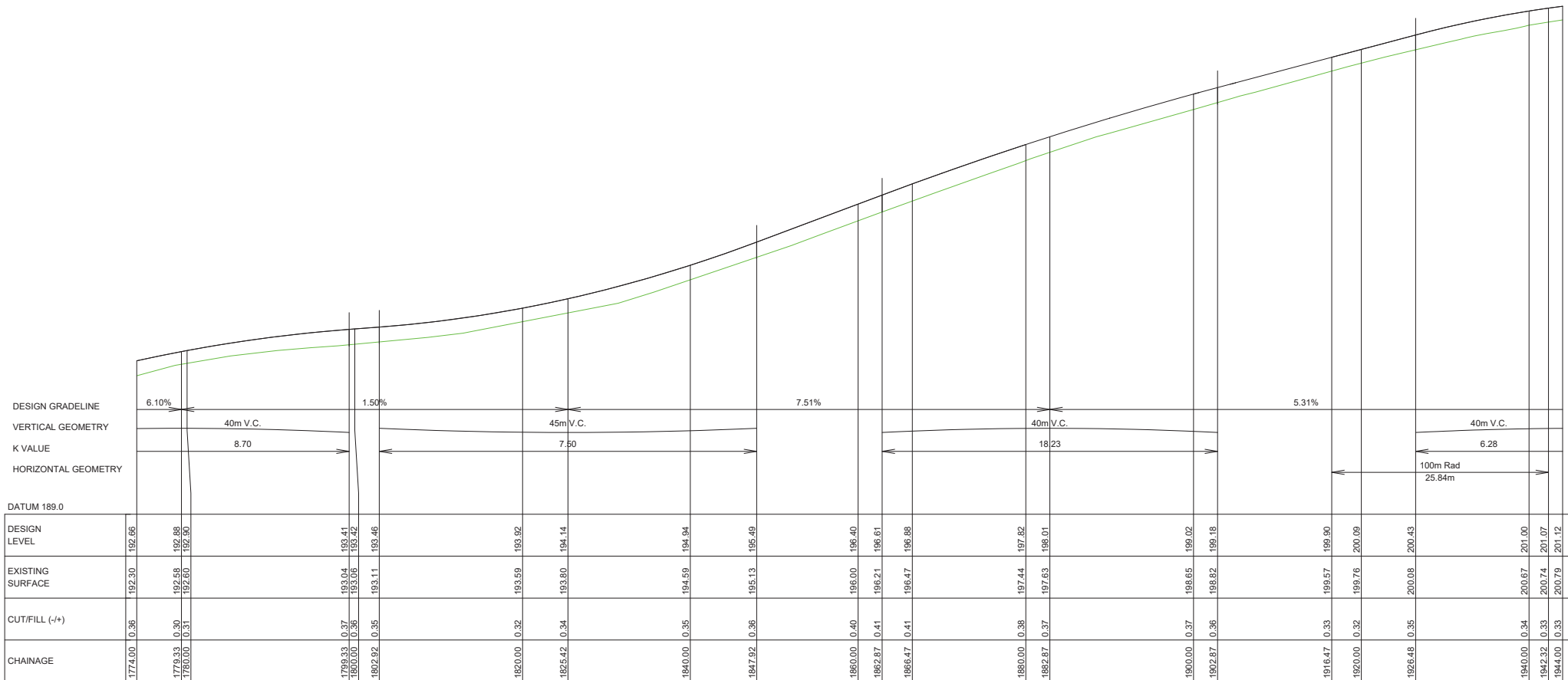
DWG No.

LS11

Sheet No.

11 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



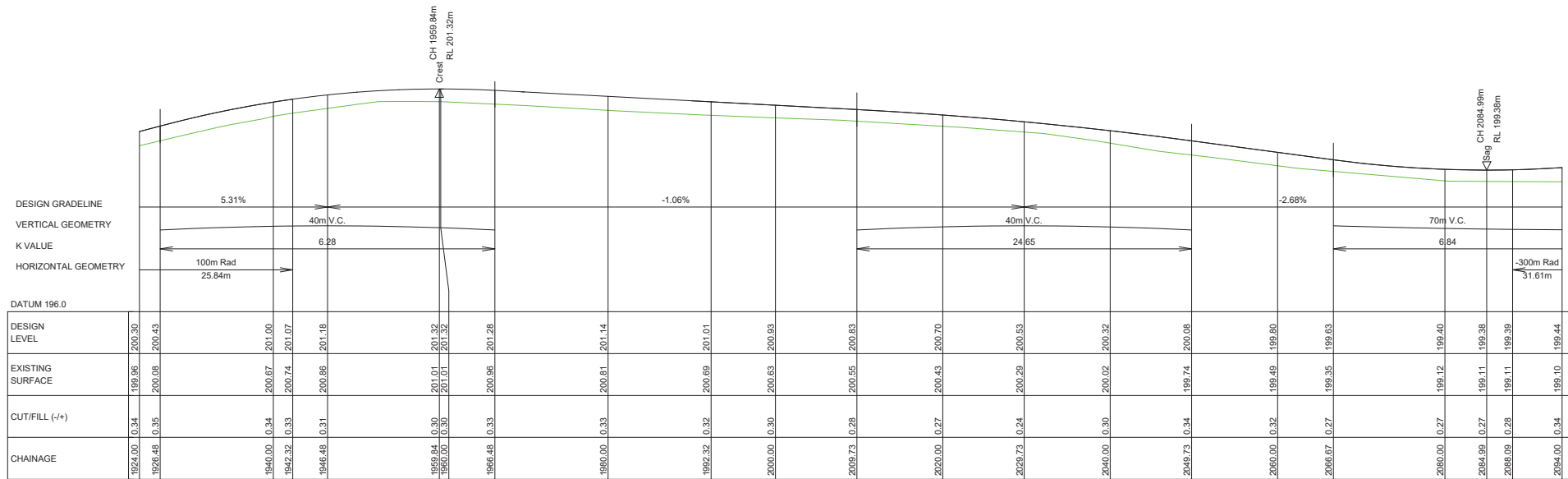
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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Project	Ruapekepeka Road - Seal Extension		DWG No.	LS12
Client	Far North District Council		Sheet No.	12 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500
Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

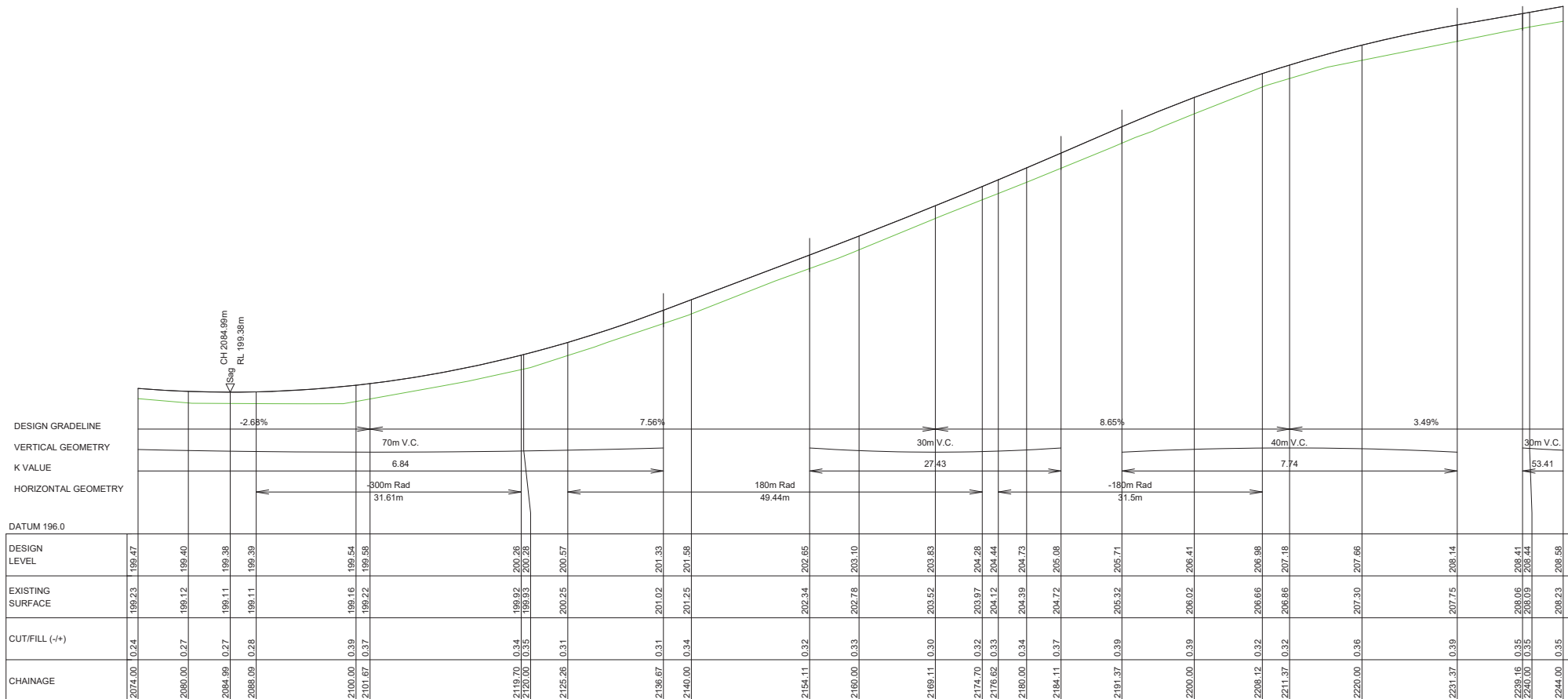
DWG	Ruaapekapeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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Project	Ruaapekapeka Road - Seal Extension	
Client	Far North District Council	
Project No.	8726	RC no.

DWG No.	LS13
Sheet No.	13 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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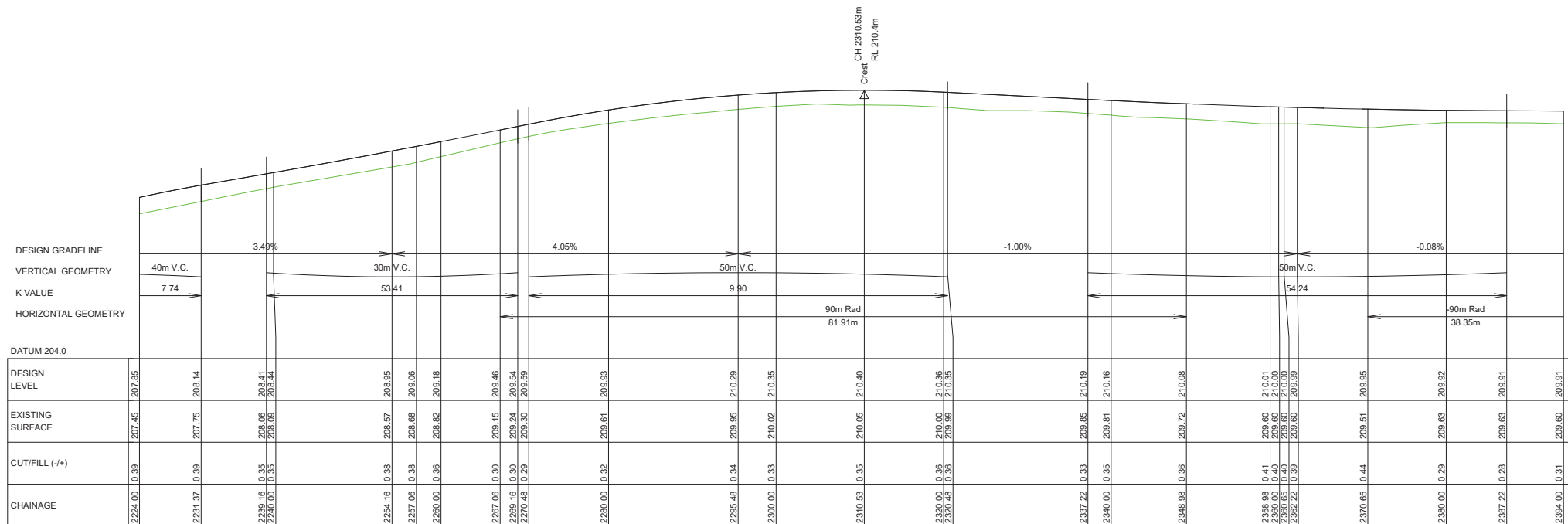
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Project	Ruaapekapeka Road - Seal Extension		DWG No.	LS14
Client	Far North District Council		Sheet No.	14 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG

Ruapekapeka Road
Long Section

Scale 1: 500 @A3

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Date 26/03/2021

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

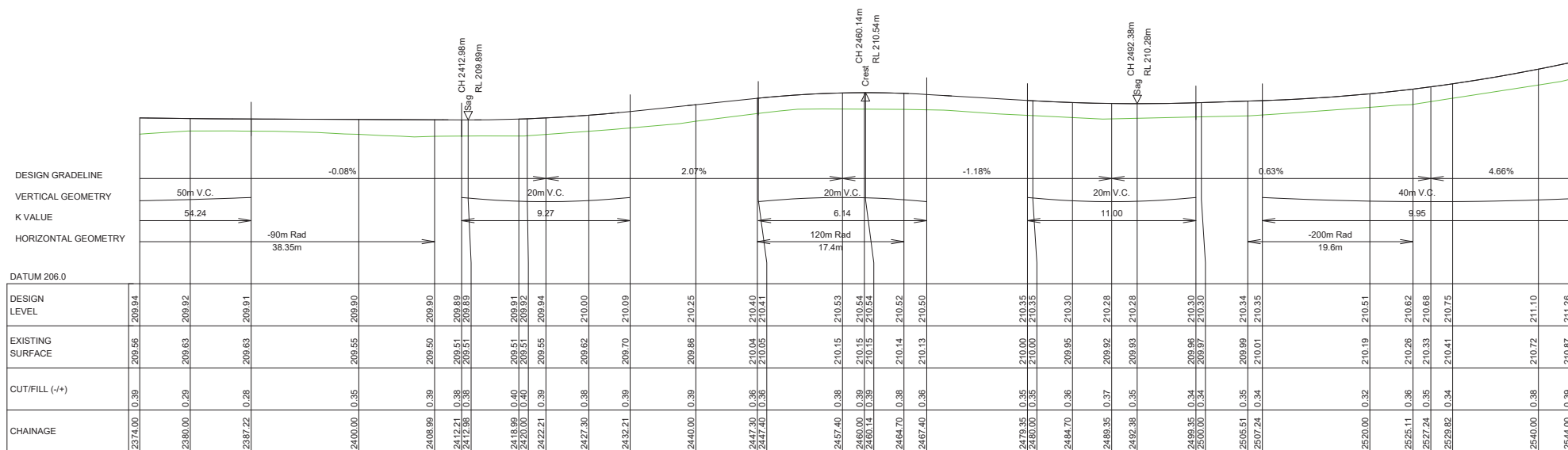
DWG No.

LS15

Sheet No.

15 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



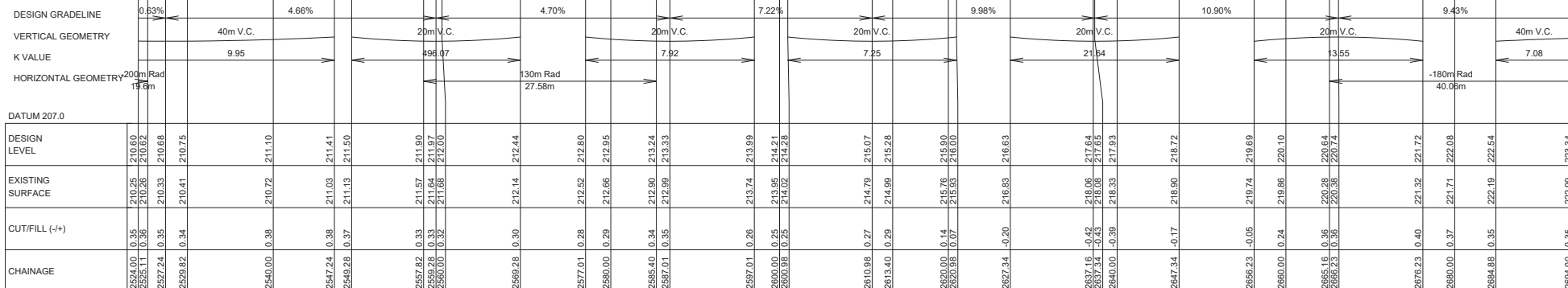
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Long Section		
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Drawn	NS	Checked JM	Approved JM
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Project	Ruapekapeka Road - Seal Extension		DWG No.	LS16
Client	Far North District Council		Sheet No.	16 of 30
Project No.	8726	RC no.		

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RC: 2220252
Date: 20/12/2021



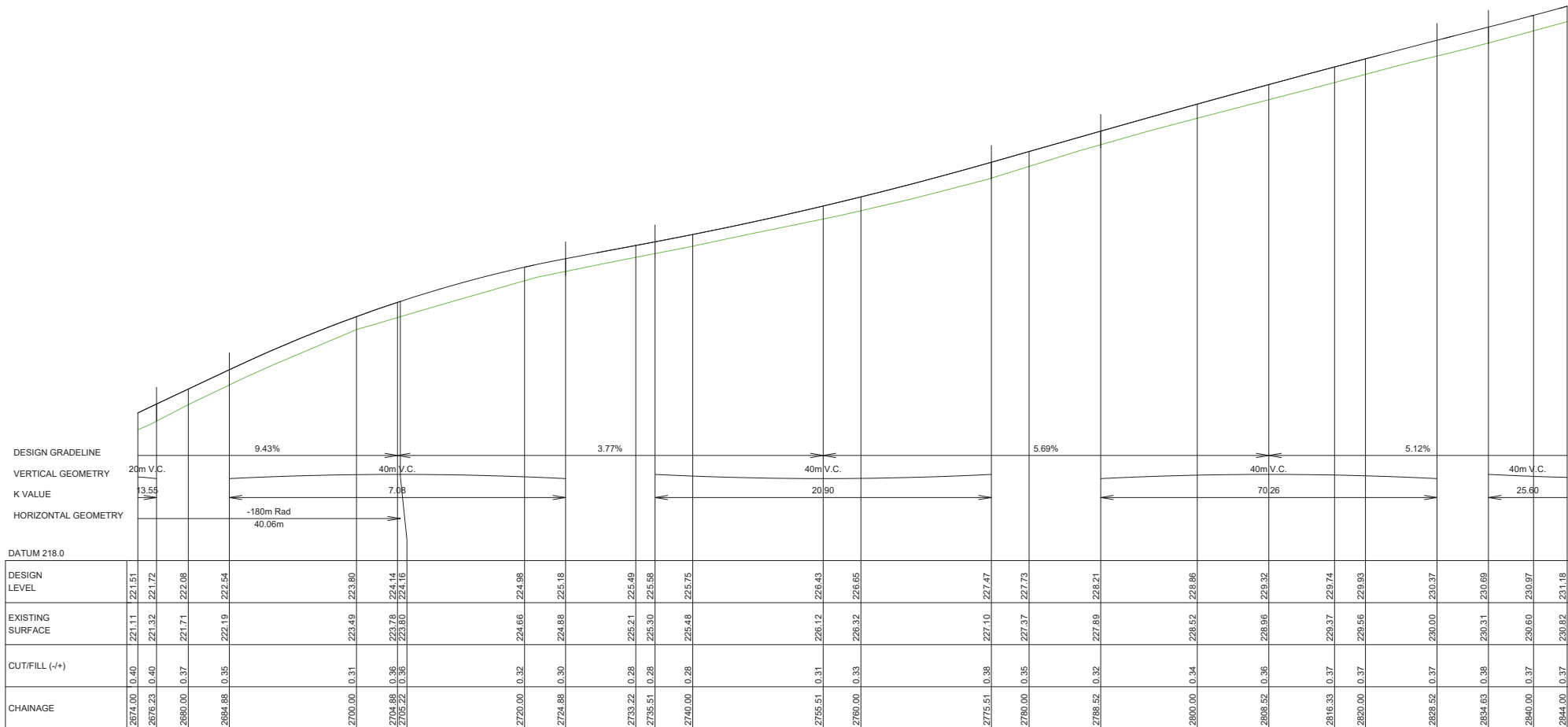
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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Project	Ruapekepeka Road - Seal Extension		DWG No.	LS17
Client	Far North District Council		Sheet No.	17 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500
Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
Scale	1: 500 @A3	# # 0 # # # #	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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Project	Ruapekepeka Road - Seal Extension		DWG No.	LS18
Client	Far North District Council		Sheet No.	18 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

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LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKEPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @CH4020.DWG		

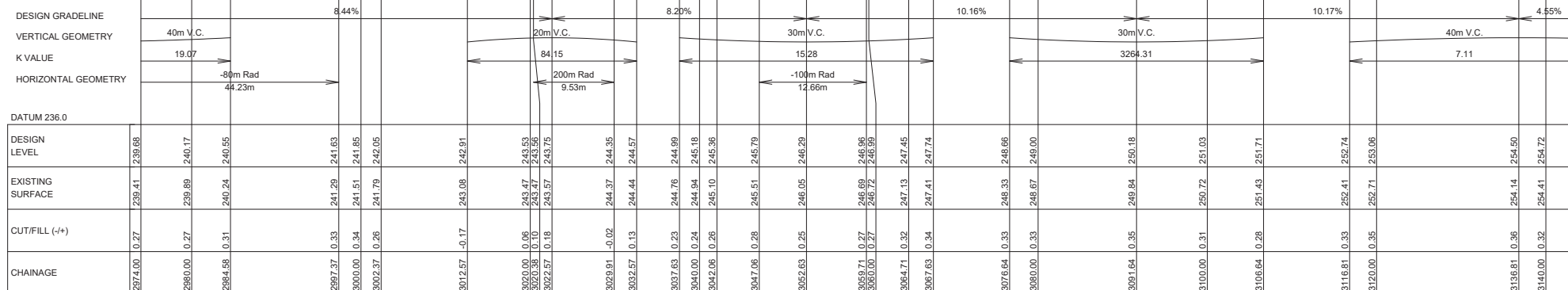
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Project	Ruapekepeka Road - Seal Extension		DWG No.	LS19
Client	Far North District Council		Sheet No.	19 of 30
Project No.	8726	RC no.		

Horizontal Scale 1:500
Vertical Scale 1:100



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruaepekapeka Road		Long Section	
Scale	1: 500 @A3	##	#	0	##
Drawn	NS	Checked		JM	Approved JM
Date	26/03/2021				
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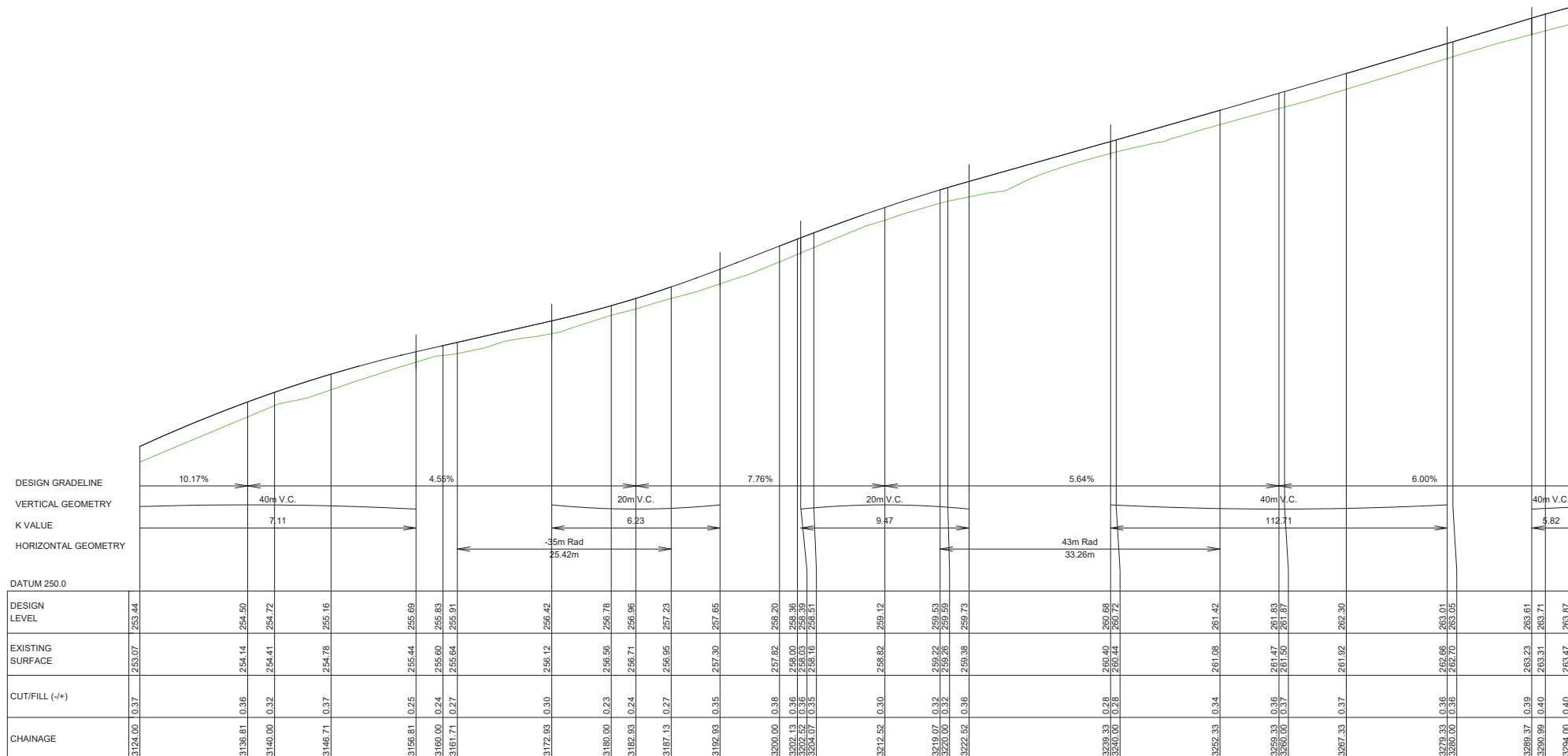
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Project	Ruaapekapeka Road - Seal Extension		DWG No. LS20 Sheet No. 20 of 30
Client	Far North District Council		
Project No.	8726	RC no.	



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Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruapekapeka Road		Long Section	
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Drawn	NS	Checked		JM	Approved JM
Date	26/03/2021				
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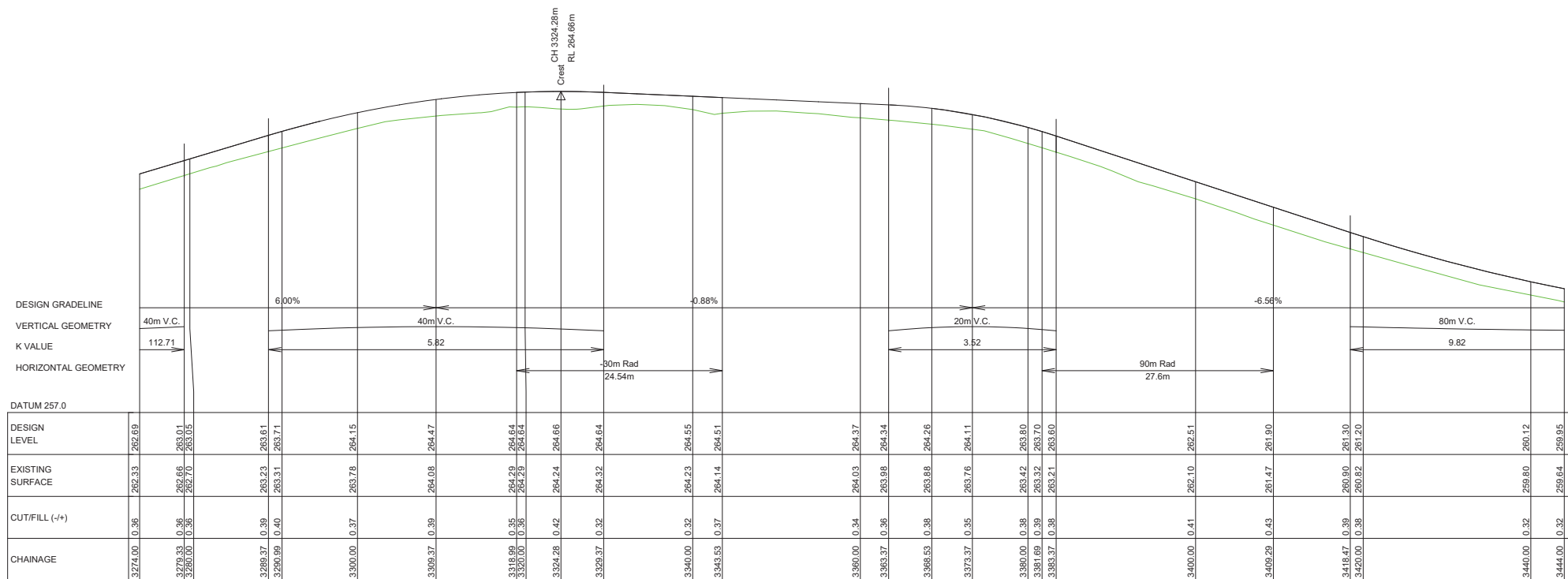
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02 81 12 S. G.	Project Ruapekepeka Road - Seal Extension		DWG No. LS21
	Client Far North District Council		Sheet No. 21 of 30
	Project No. 8726	RC no.	

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

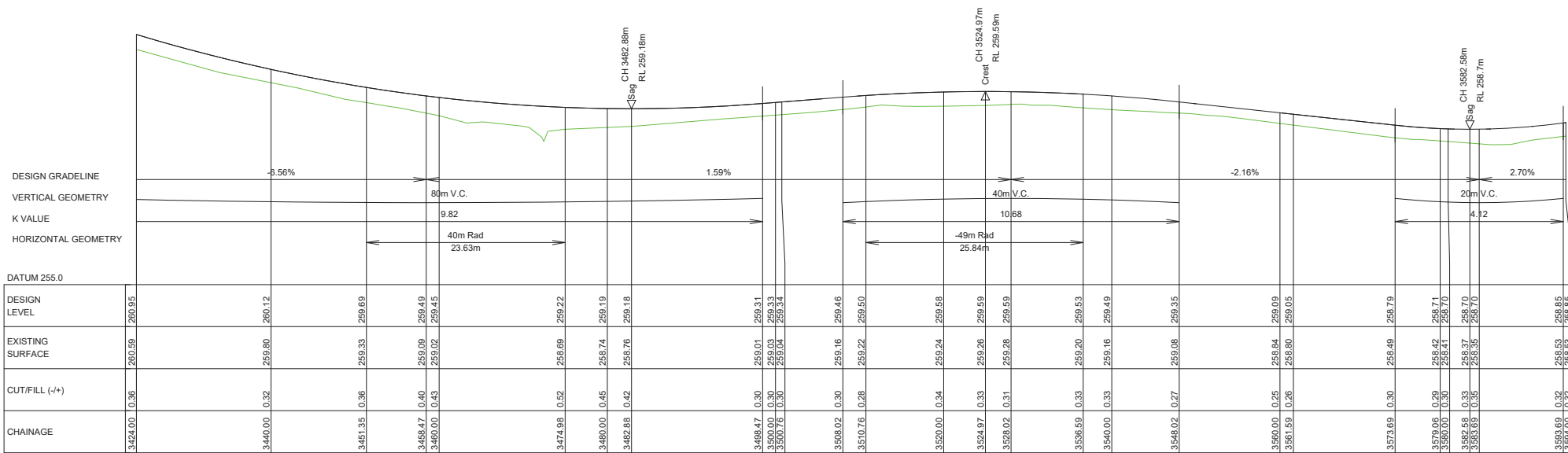
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A	26/03/2021	FIRST ISSUE

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Drawn	NS	Checked JM	Approved JM
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Project	Ruaapekapeka Road - Seal Extension		DWG No.	LS22
Client	Far North District Council		Sheet No.	22 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Long Section			
Scale	1: 500 @A3	## # 0 ## ## ##	Date	26/03/2021
Drawn	NS	Checked JM	Approved JM	
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH020.DWG			

The logo for Haigh Workman Ltd features a stylized 'H' composed of three blue diagonal bars of varying lengths, creating a sense of depth and structure.

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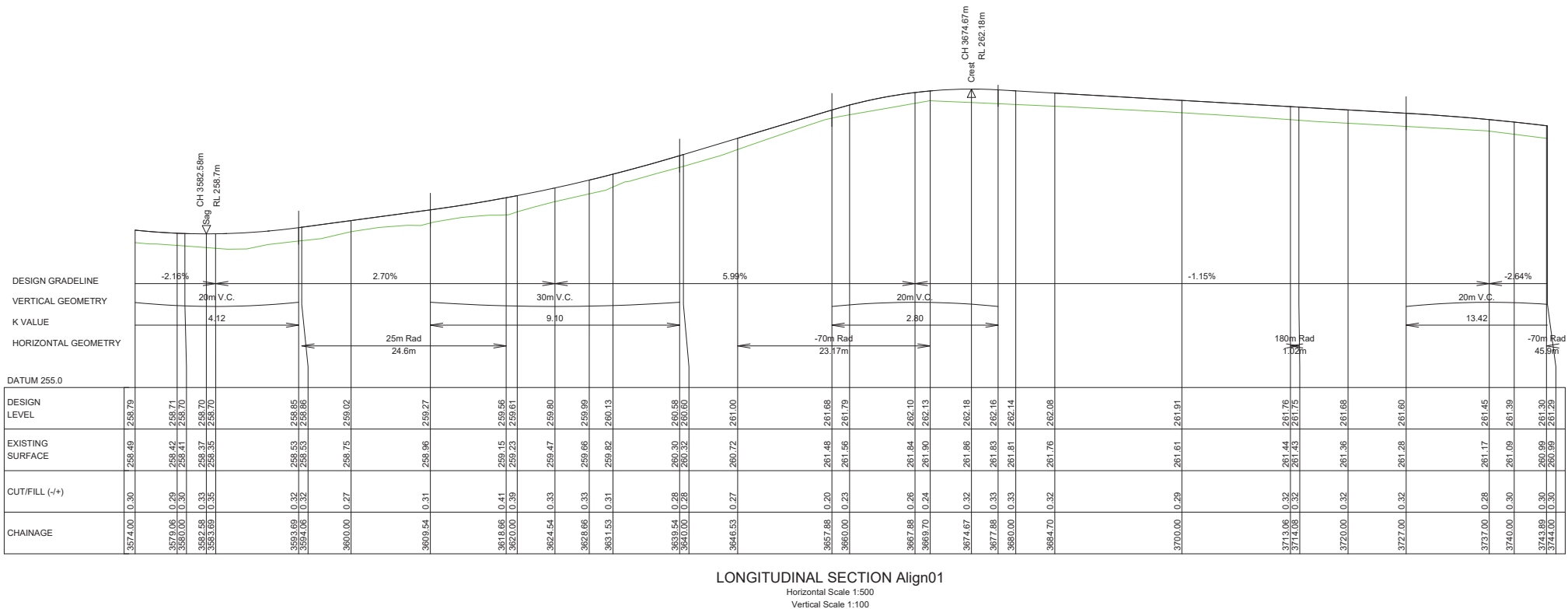
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Client	Far North District Council	
Project No.	8726	RC no.

DWG No.	LS23
Sheet No.	23 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



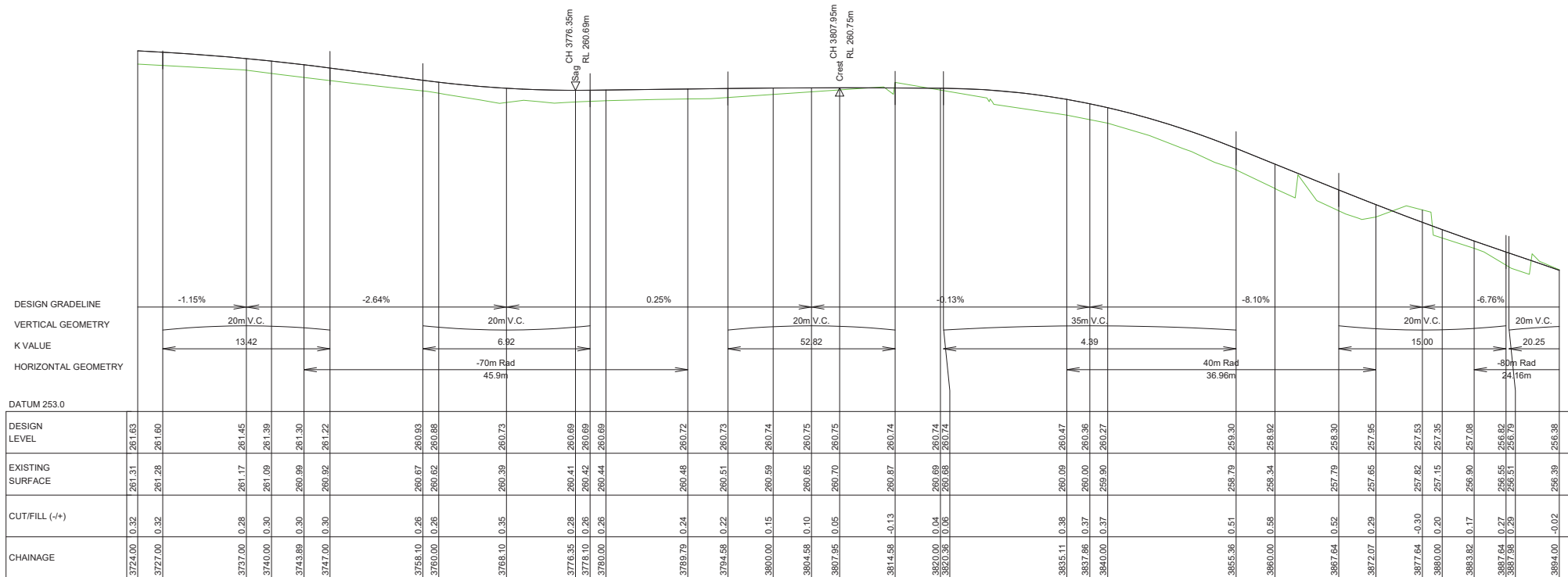
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A	26/03/2021	FIRST ISSUE

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Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
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Client	Far North District Council		Sheet No.	24 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

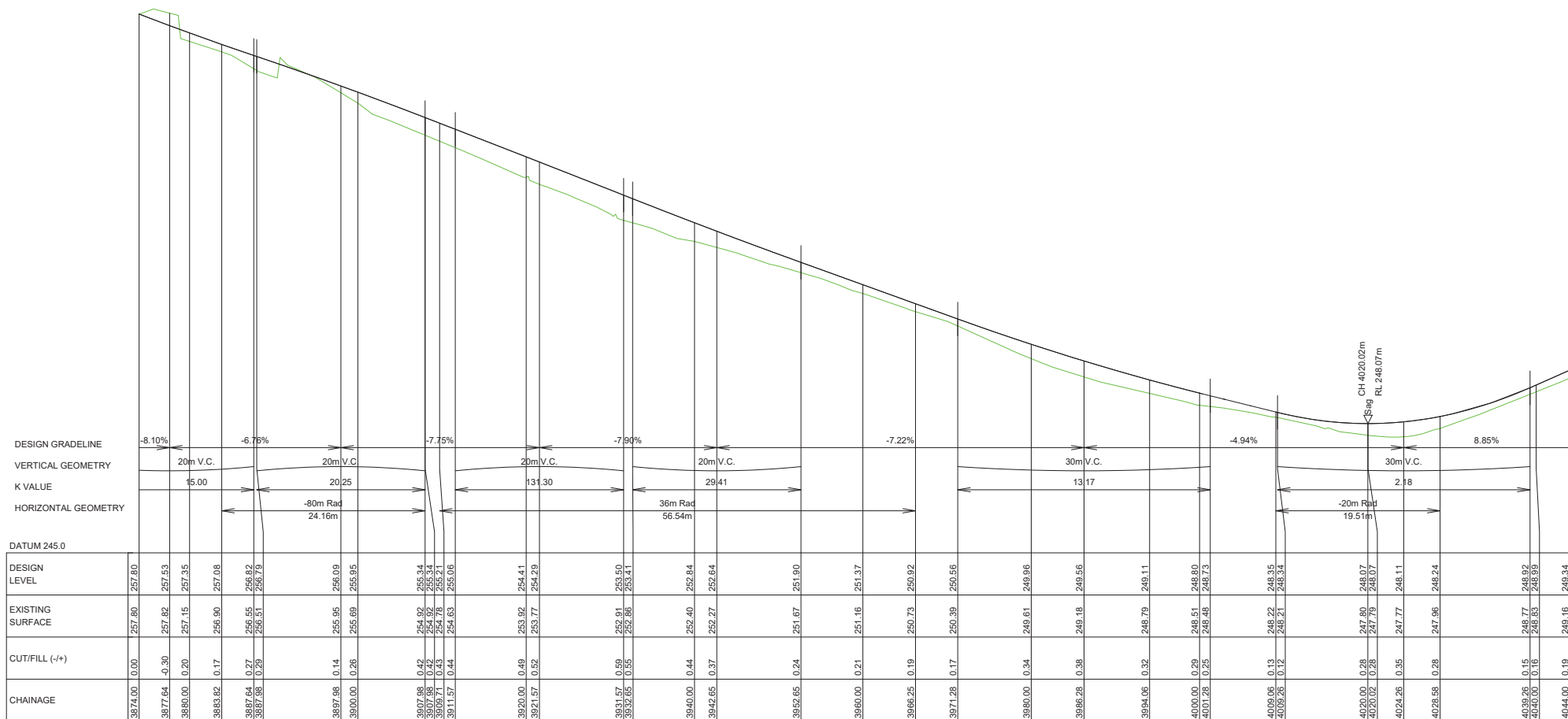
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Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
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Drawn	NS	Checked JM	Approved JM
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Client	Far North District Council		Sheet No.	25 of 30
Project No.	8726	RC no.		



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Horizontal Scale 1:500
Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruapekapeka Road Long Section			
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	Drawn				
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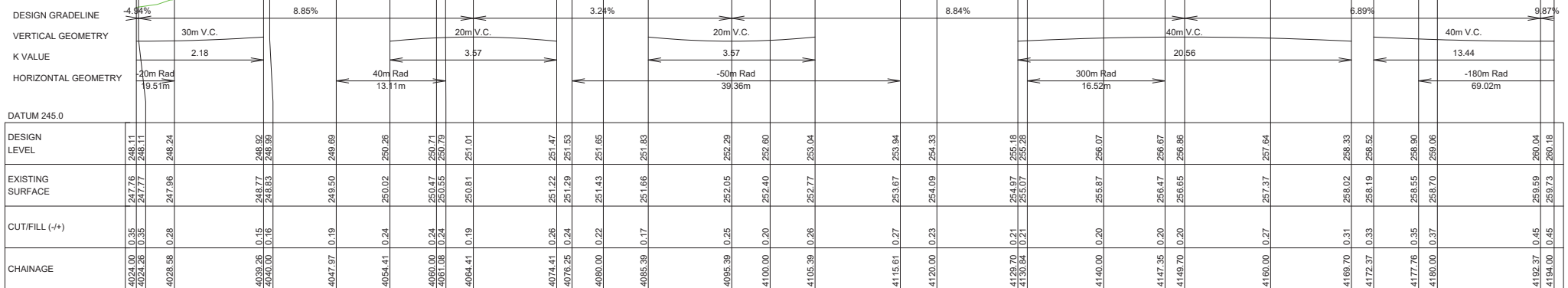
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	Client Far North District Council		Sheet No.
	Project No. 8726	RC no.	26 of 30

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LONGITUDINAL SECTION Align01

Horizontal Scale 1:500

Vertical Scale 1:100

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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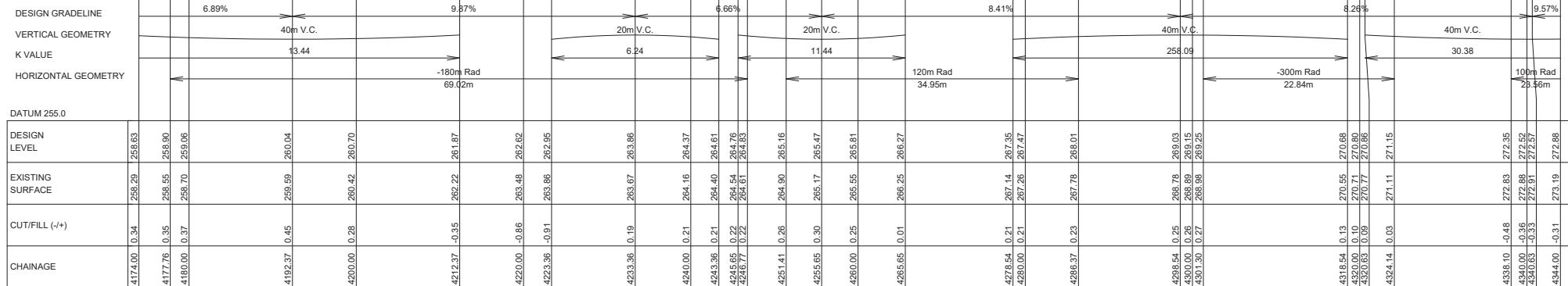
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Client	Far North District Council		Sheet No.	27 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

LONGITUDINAL SECTION Align01

Horizontal Scale 1:500
Vertical Scale 1:100



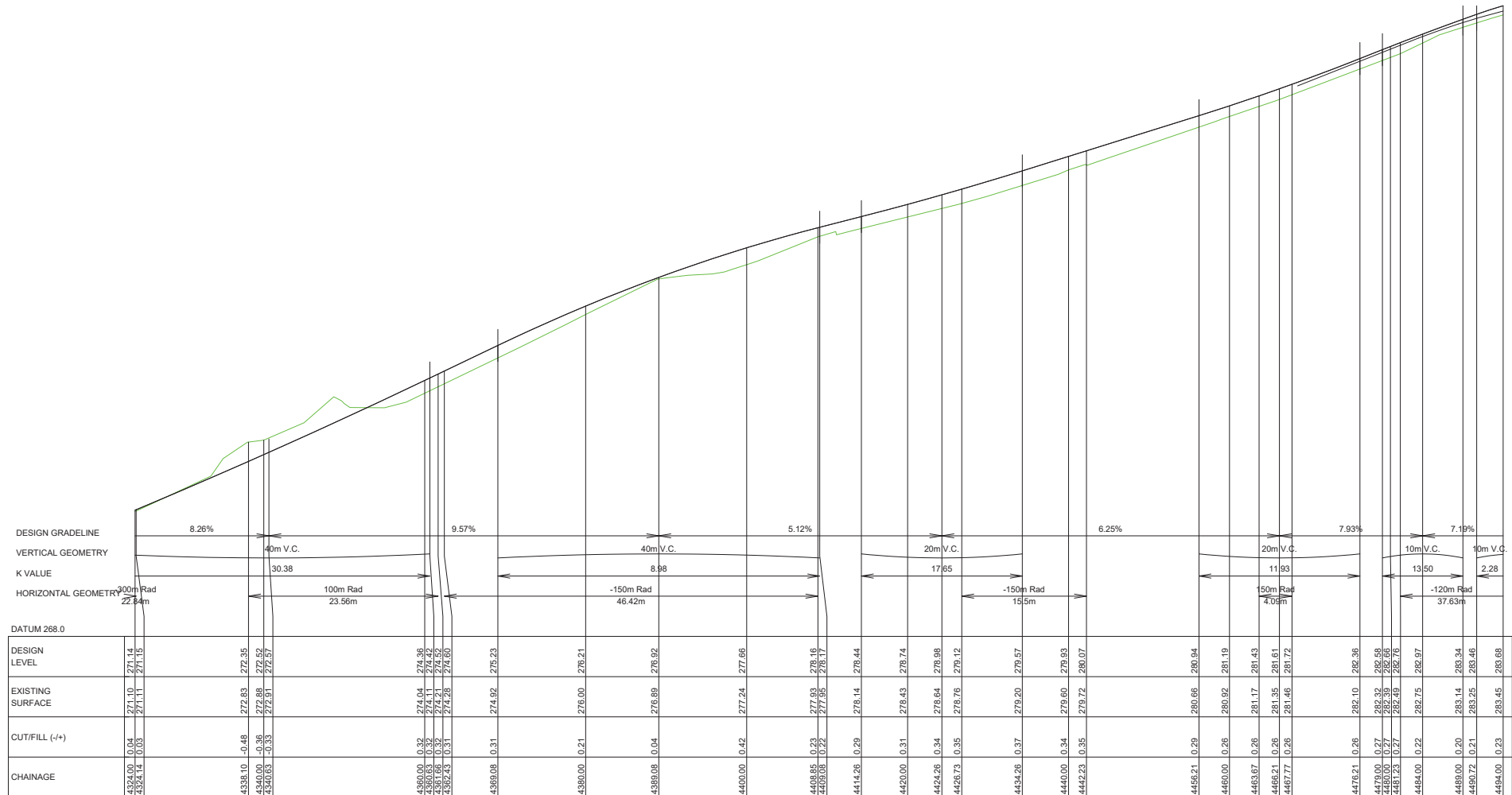
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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Project	Ruapekepeka Road - Seal Extension		DWG No.	LS28
Client	Far North District Council		Sheet No.	28 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
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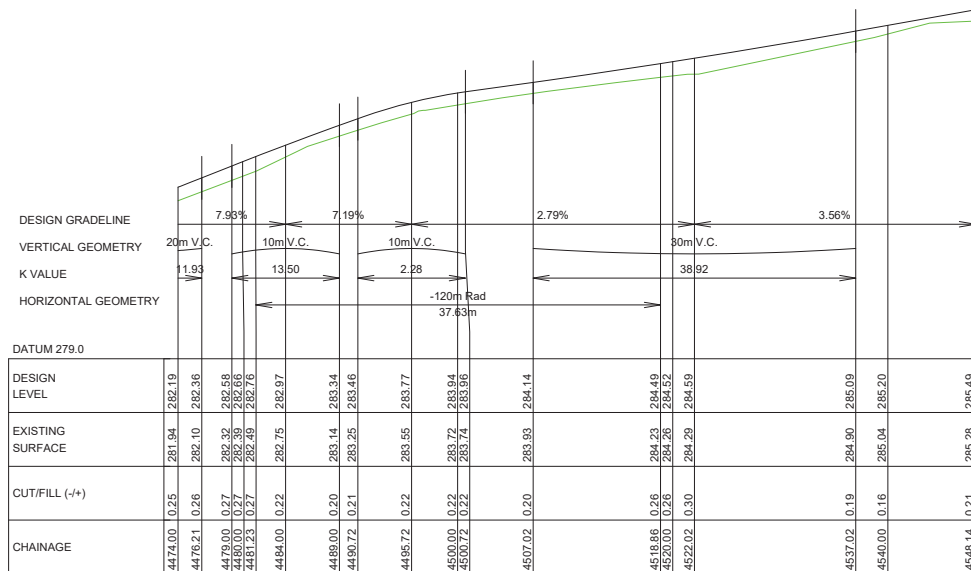
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Client	Far North District Council		Sheet No.	29 of 30
Project No.	8726	RC no.		

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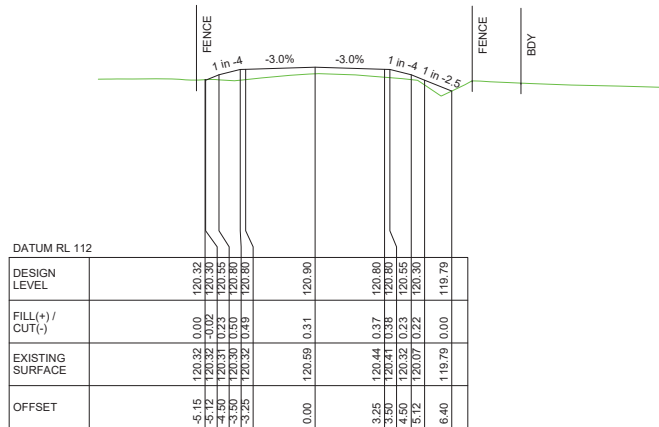
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekepeka Road Long Section		
Scale	1: 500 @A3	## # 0 ## ## #	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V18 B&W DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED @SCH020.DWG		

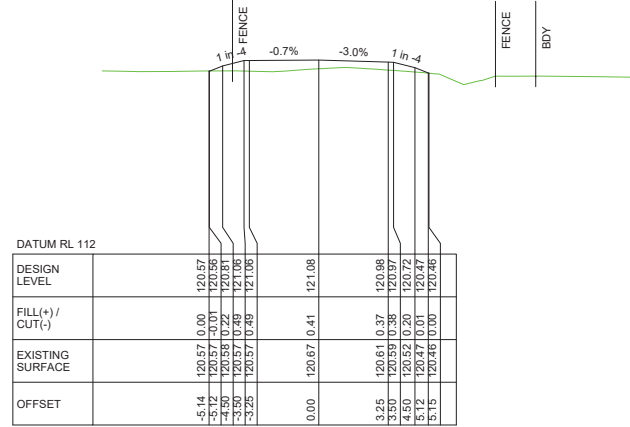
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Project	Ruapekepeka Road - Seal Extension		DWG No.	LS30
Client	Far North District Council		Sheet No.	30 of 30
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



CH 140.00



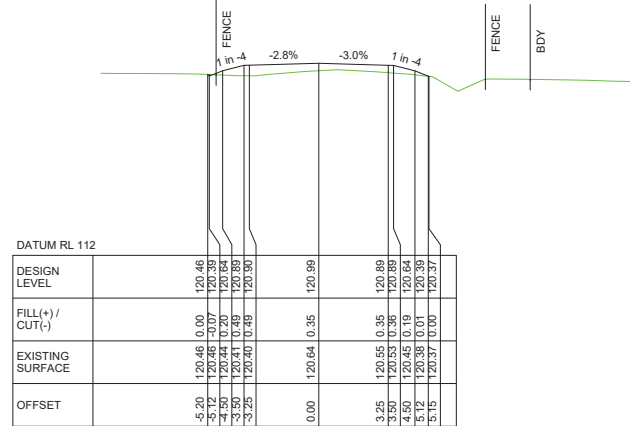
CH 180.00



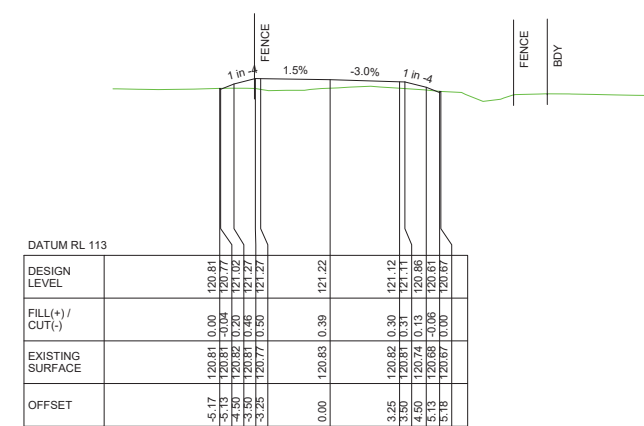
CH 220.00



CH 124.00



CH 160.00



CH 200.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED\8CH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

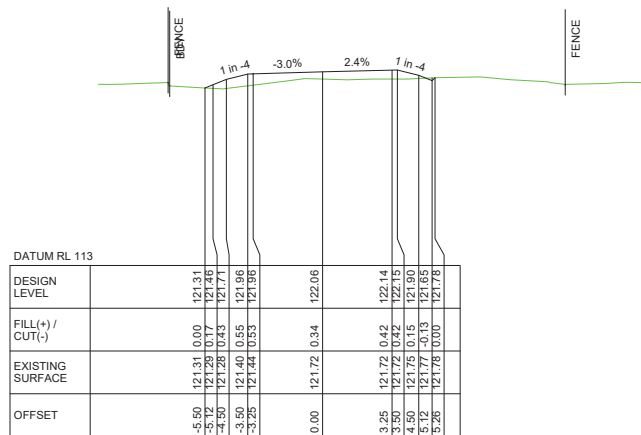
DWG No.

CS1

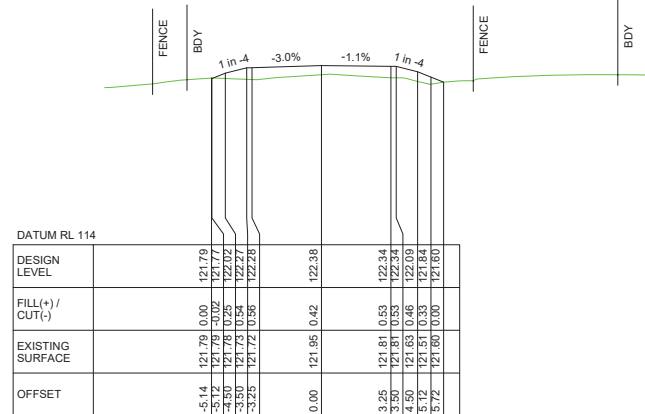
Sheet No.

01 of 44

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



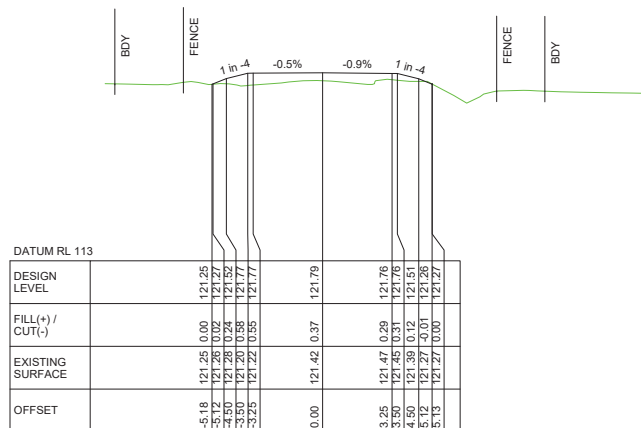
CH 260.00



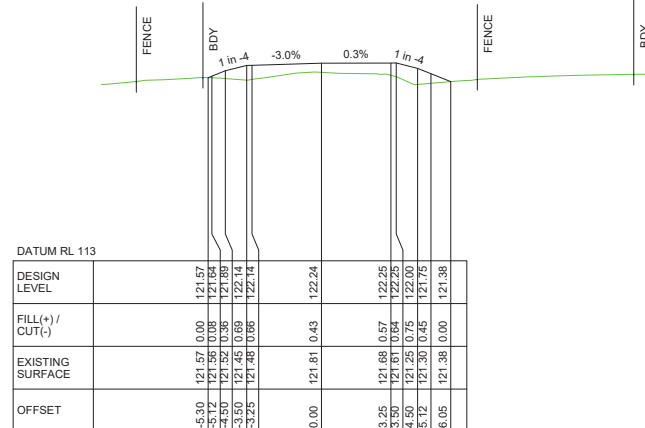
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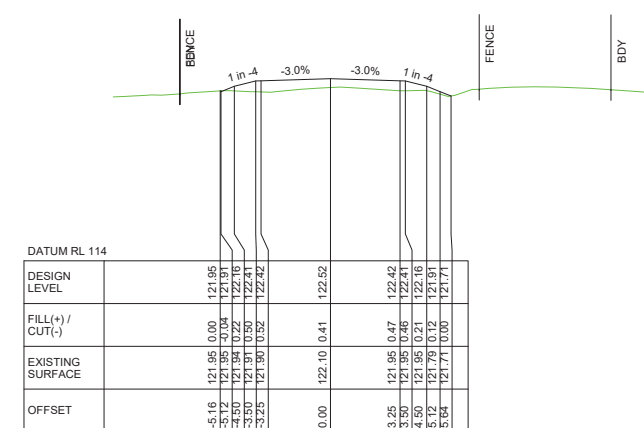
CH 340.00



CH 240.00



CH 280.00



CH 320.00

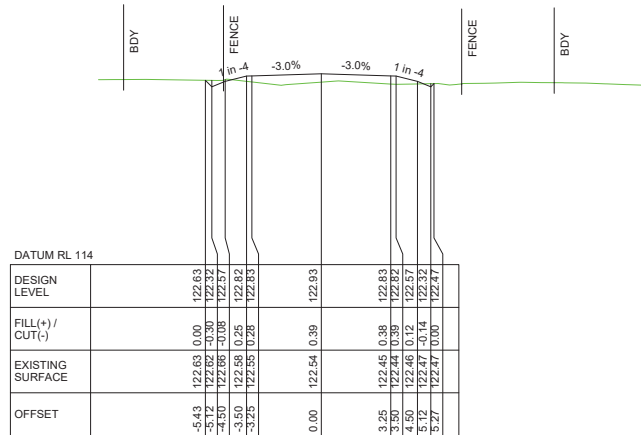
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Cross Section		
Scale	1:250 @A3	## 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROADS\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4620.DWG		

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Project	Ruapekapeka Road - Seal Extension		DWG No.
Client	Far North District Council		CS2
Project No.	8726	RC no.	Sheet No.
			02 of 44

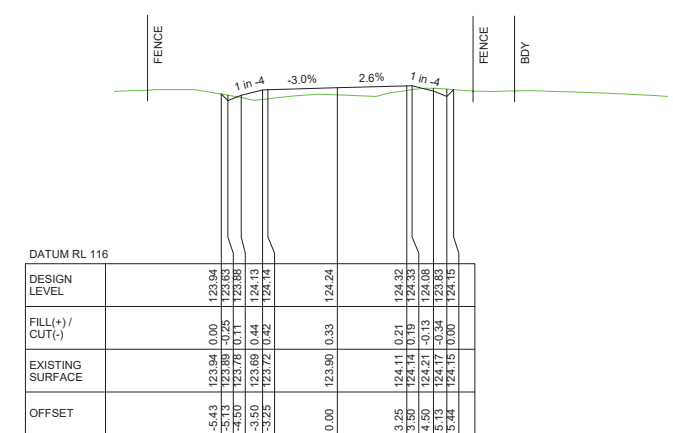
Planner: pkillalea
RC: 2220252
Date: 20/12/2021



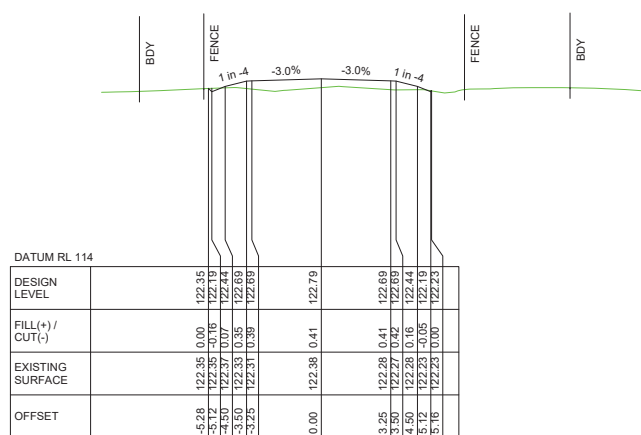
CH 380.00



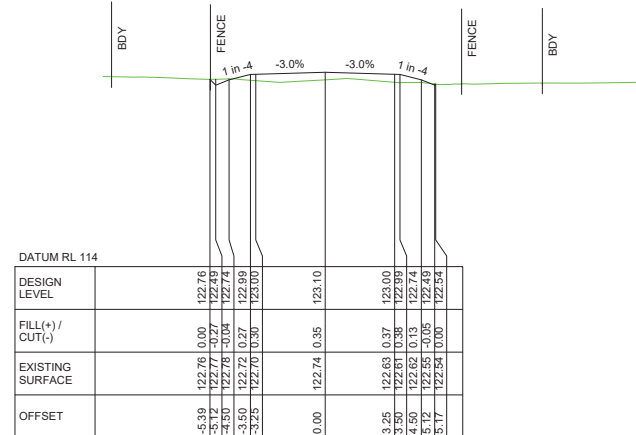
CH 420.00



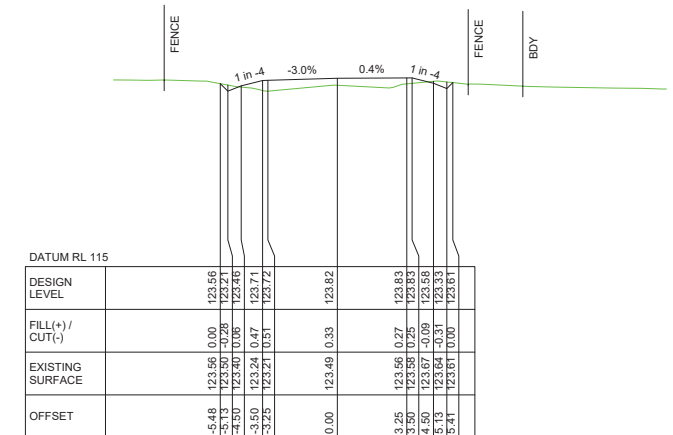
CH 460.00



CH 360.00



CH 400.00



CH 440.00

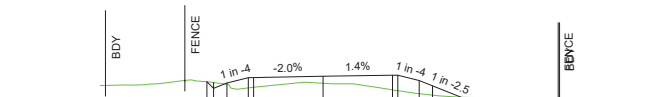
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Cross Section		
Scale	1:250 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4600.DWG		

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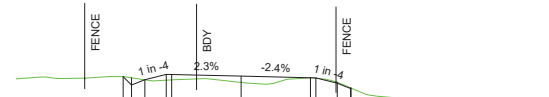
Project	Ruapekapeka Road - Seal Extension		DWG No.
Client	Far North District Council		CS3
Project No.	8726	RC no.	Sheet No.
			03 of 44

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



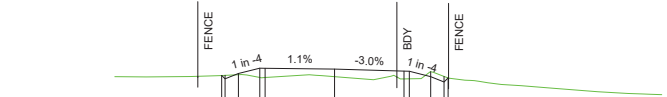
DESIGN LEVEL	FILL(+) / CUT(-)	EXISTING SURFACE	OFFSET
124.63	0.00	124.32	-5.44
124.59	-0.27	124.32	-4.30
124.51	0.05	124.32	-3.50
124.34	0.48	124.82	-3.25
124.37	0.45	124.82	-3.25
124.89	0.33	124.89	0.00
124.93	0.68	124.93	3.25
124.94	0.73	124.94	3.50
124.95	0.78	124.95	4.50
124.96	0.83	124.96	5.13
124.97	0.88	124.97	5.19
123.90	0.00	123.90	6.46

CH 500.00



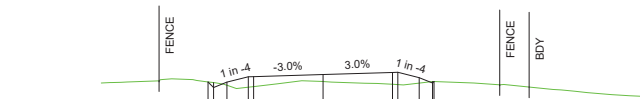
DESIGN LEVEL	FILL(+) / CUT(-)	EXISTING SURFACE	OFFSET
125.01	0.00	124.82	-5.52
124.95	-0.34	124.82	-5.12
124.87	0.00	124.87	-4.50
124.85	0.27	125.12	-3.50
125.11	0.25	125.11	-3.25
125.04	0.29	125.04	0.00
124.96	0.01	124.96	3.25
124.94	0.02	124.94	3.50
124.75	-0.05	124.70	4.50
124.49	-0.03	124.45	5.12
124.48	0.00	124.48	5.19

CH 540.00



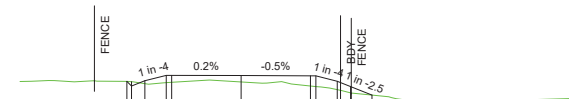
DESIGN LEVEL	FILL(+) / CUT(-)	EXISTING SURFACE	OFFSET
125.22	0.00	125.06	-5.28
125.22	-0.17	125.06	-5.12
125.25	0.06	125.31	-4.50
125.13	0.43	125.66	-3.50
125.12	0.43	125.58	-3.25
125.52	0.36	125.52	0.00
125.42	0.38	125.42	3.25
125.40	0.33	125.40	3.50
125.36	0.33	125.36	4.50
125.17	-0.26	124.91	5.12
125.10	0.00	125.10	5.31

CH 580.00



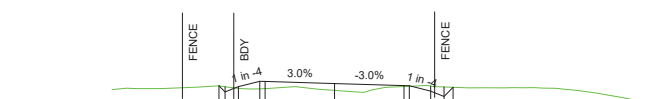
DESIGN LEVEL	FILL(+) / CUT(-)	EXISTING SURFACE	OFFSET
124.29	0.00	124.34	-5.13
124.26	-0.22	124.34	-5.13
124.14	0.15	124.29	-4.50
124.05	0.49	124.54	-3.50
124.08	0.47	124.54	-3.25
124.64	0.33	124.64	0.00
124.74	0.55	124.74	3.25
124.75	0.58	124.75	3.50
124.76	0.61	124.76	4.50
124.77	0.64	124.77	5.13
124.78	0.67	124.78	5.19
124.31	0.00	124.31	6.13

CH 480.00



DESIGN LEVEL	FILL(+) / CUT(-)	EXISTING SURFACE	OFFSET
124.70	0.00	124.70	-5.35
124.63	0.13	124.72	-5.12
124.63	0.34	124.97	-3.50
124.97	0.32	124.97	-3.25
124.97	0.30	124.97	0.00
124.95	0.47	124.95	3.25
124.95	0.50	124.95	3.50
124.70	0.40	124.70	4.50
124.30	0.30	124.45	5.12
124.05	0.00	124.05	6.13

CH 520.00



DESIGN LEVEL	FILL(+) / CUT(-)	EXISTING SURFACE	OFFSET
125.11	0.00	124.83	-5.41
125.07	-0.24	124.83	-5.12
125.00	0.08	125.08	-4.50
124.98	0.35	125.33	-3.50
124.98	0.33	125.32	-3.25
125.52	0.32	125.52	0.00
125.12	0.04	125.12	3.25
125.08	0.24	125.12	3.50
125.04	0.44	124.82	5.12
125.04	0.00	125.04	5.55

CH 560.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

DWG No.

CS4

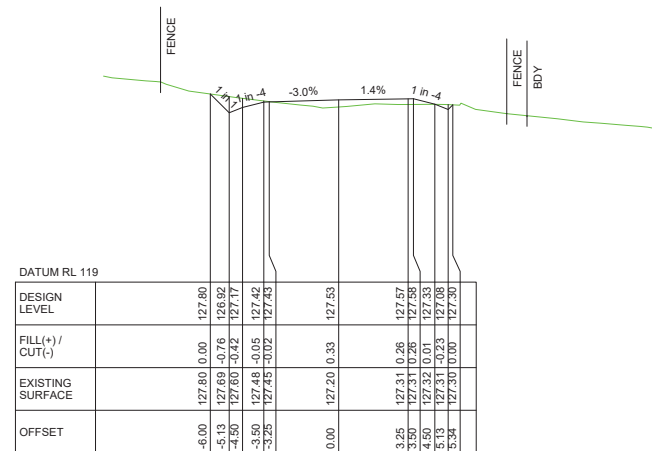
Sheet No.

04 of 44

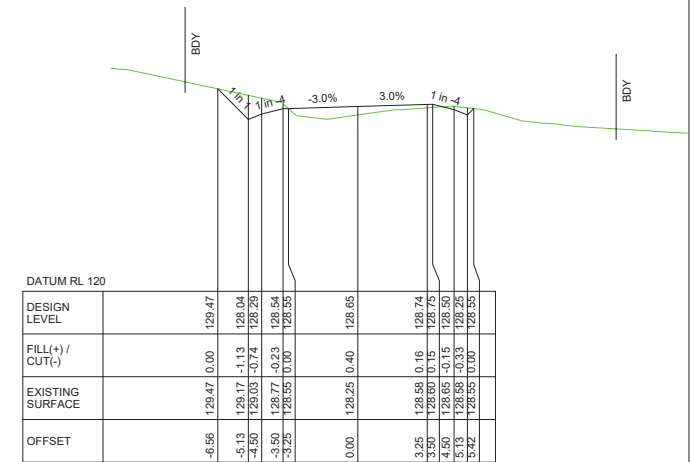
Planner: pkillalea
RC: 2220252
Date: 20/12/2021



CH 620.00



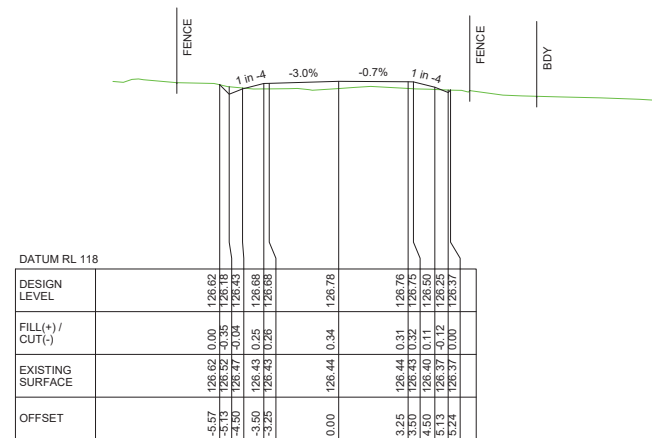
CH 660.00



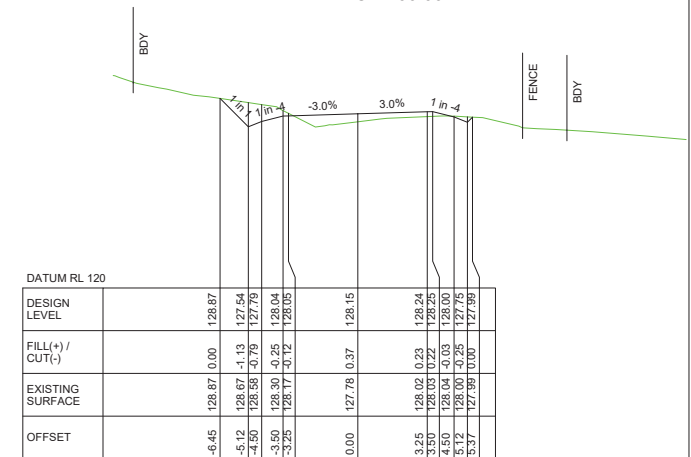
CH 700.00



CH 600.00



CH 640.00



CH 680.00

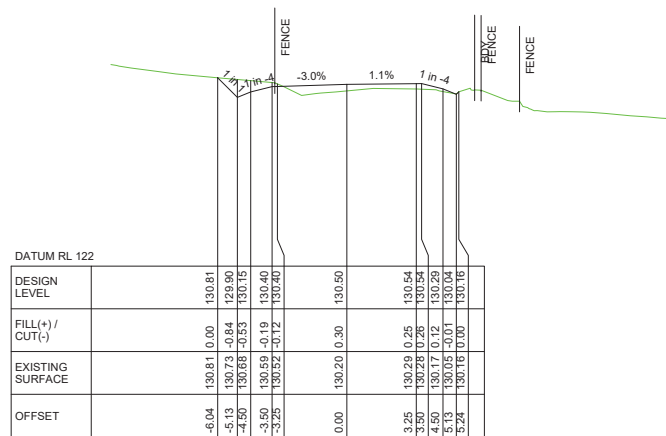
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruaapekapeka Road Cross Section		
Scale	1:250 @A3	## 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED\8CH620.DWG		

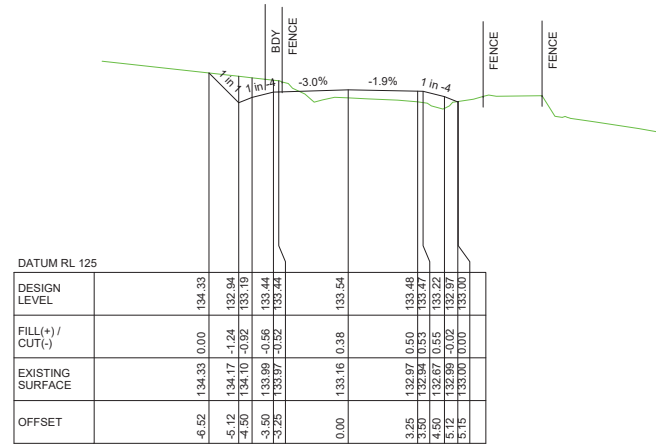
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Client	Far North District Council		CS5
Project No.	8726	RC no.	05 of 44

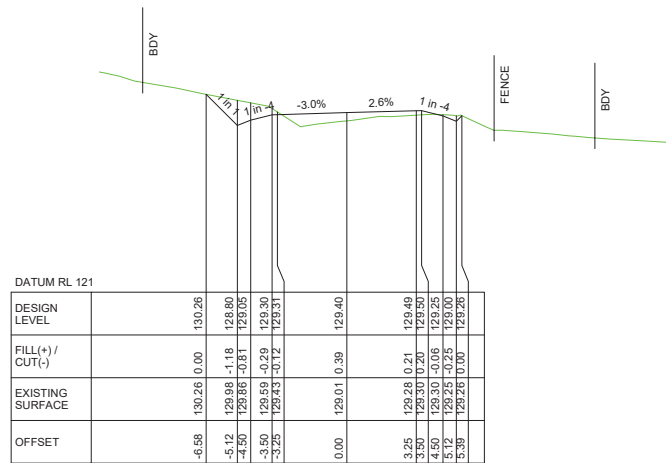
Planner: pkillalea
RC: 2220252
Date: 20/12/2021



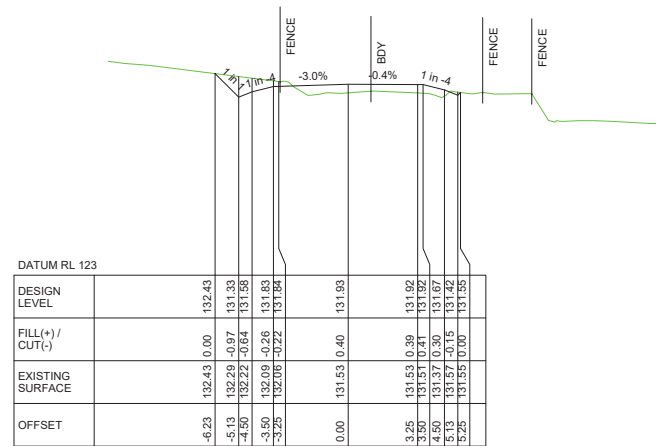
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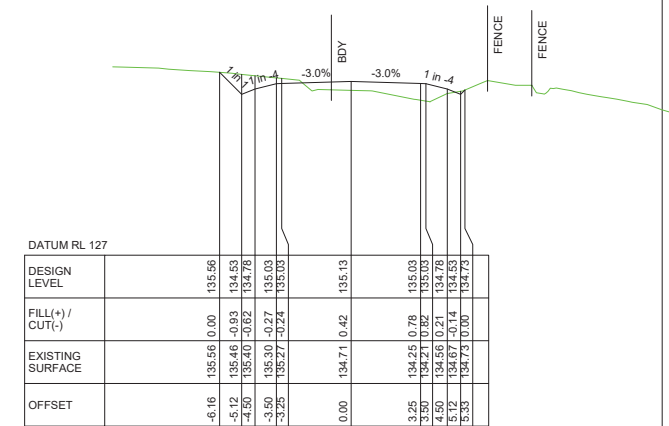
CH 780.00



CH 720.00



CH 760.00



CH 800.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1: 250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED 8CH400.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

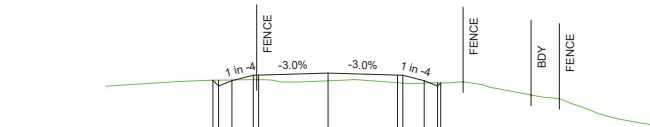
DWG No.

CS6

Sheet No.

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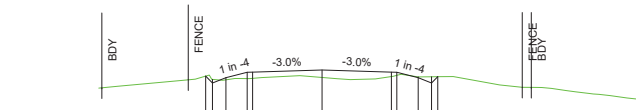
Planner: pkillalea
RC: 2220252
Date: 20/12/2021



DATUM RL 128

DESIGN LEVEL	136.14
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	136.14
OFFSET	-5.39

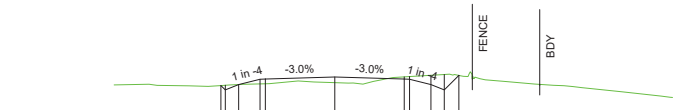
CH 840.00



DATUM RL 129

DESIGN LEVEL	136.90
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	136.90
OFFSET	-5.45

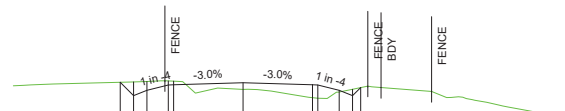
CH 880.00



DATUM RL 130

DESIGN LEVEL	138.43
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	138.43
OFFSET	-5.33

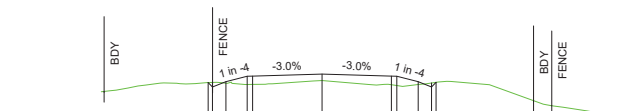
CH 920.00



DATUM RL 127

DESIGN LEVEL	136.13
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EXISTING SURFACE	136.13
OFFSET	-5.75

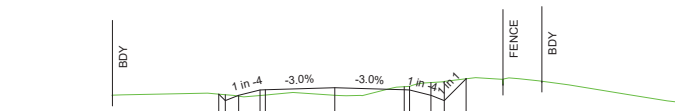
CH 820.00



DATUM RL 128

DESIGN LEVEL	136.36
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	136.36
OFFSET	-5.33

CH 860.00



DATUM RL 129

DESIGN LEVEL	137.57
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	137.57
OFFSET	-5.43

CH 900.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

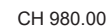
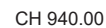
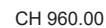
RC no.

DWG No.

CS7

Sheet No.

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Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruapekapeka Road			
		Cross Section			
Scale	1: 250 @A3	### 0 ### ###			

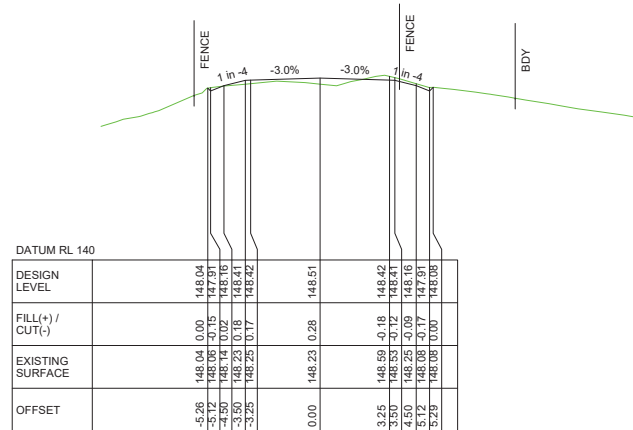
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Project	Ruaapeka Road - Seal Extension		DWG No.	CS8
Client	Far North District Council		Sheet No.	
Project No.	8726	RC no.	08 of 44	

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



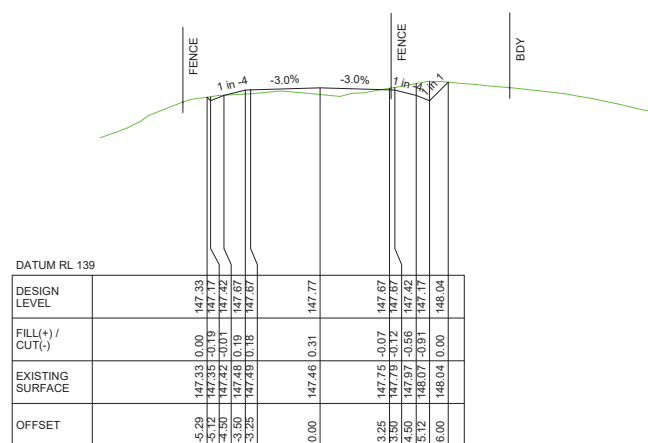
CH 1080.00



CH 1120.00



CH 1060.00



CH 1100.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4020.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

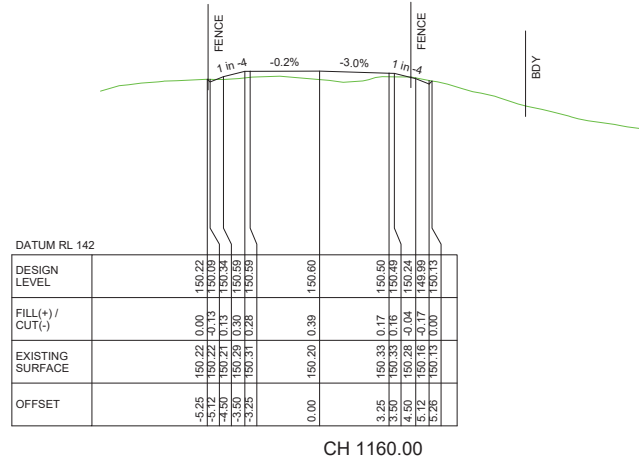
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CS9

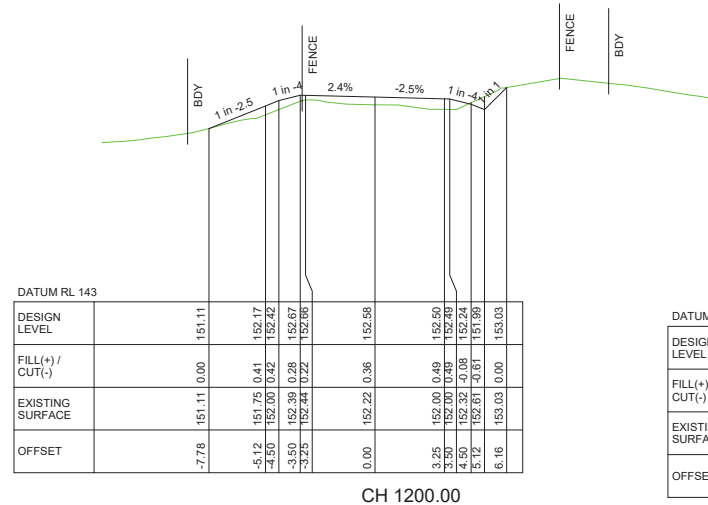
Sheet No.

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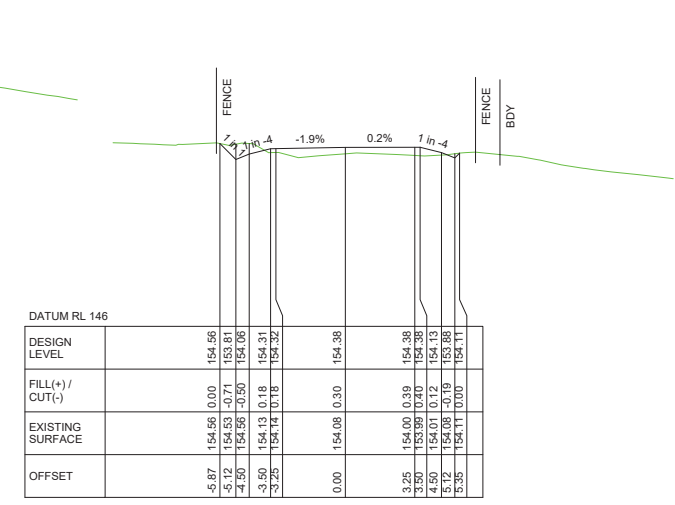
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RC: 2220252
Date: 20/12/2021



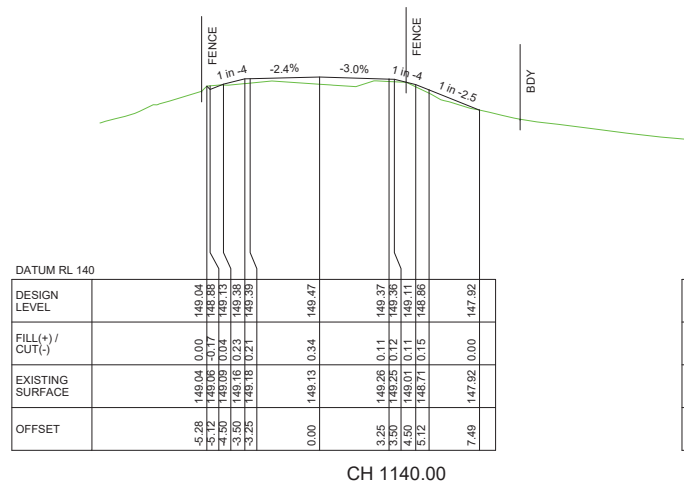
CH 1160.00



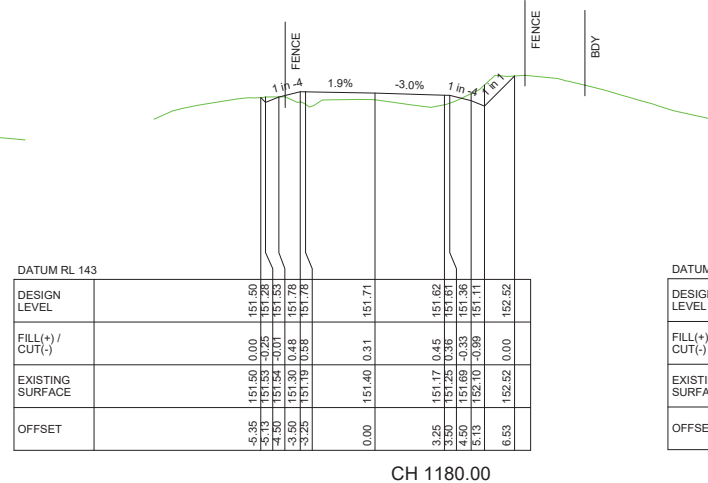
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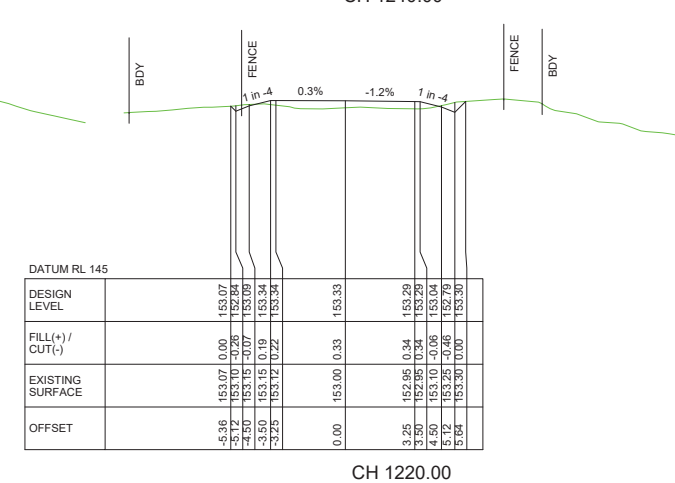
CH 1240.00



CH 1140.00



CH 1180.00



CH 1220.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

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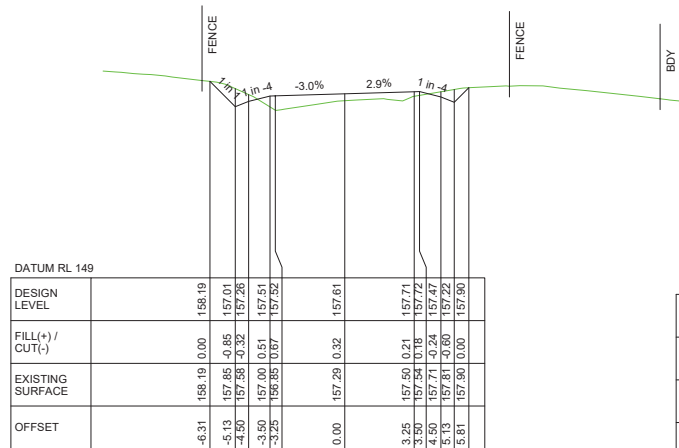
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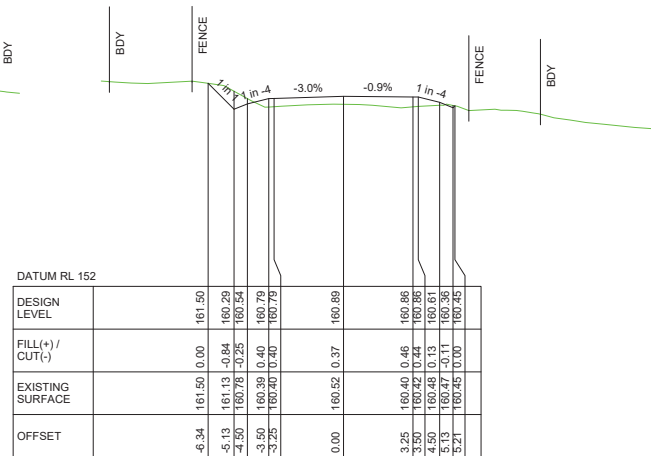
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Client	Far North District Council		Sheet No.	10 of 44
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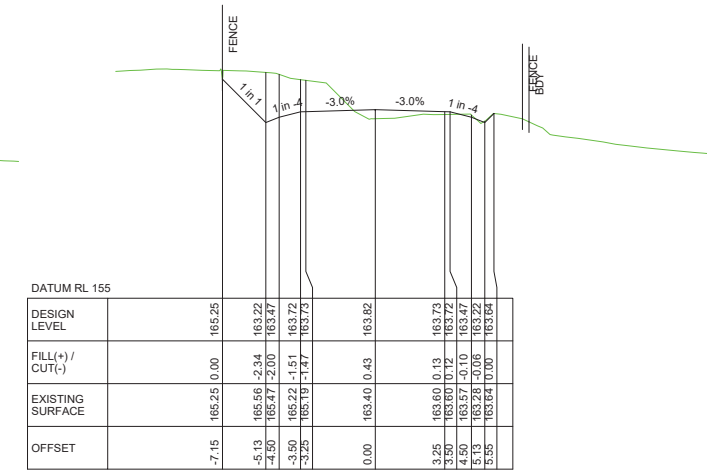
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RC: 2220252
Date: 20/12/2021



CH 1280.00



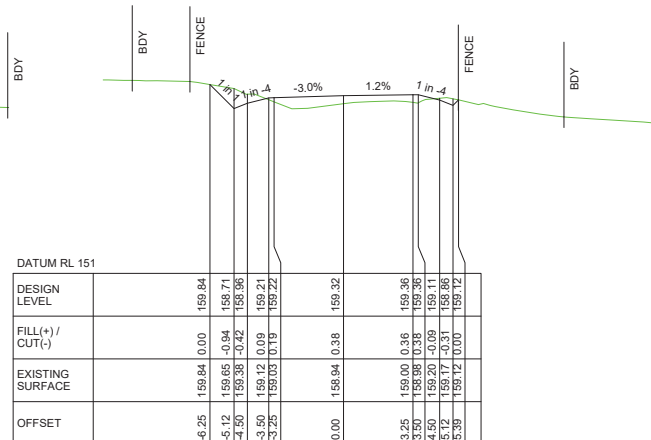
CH 1320.00



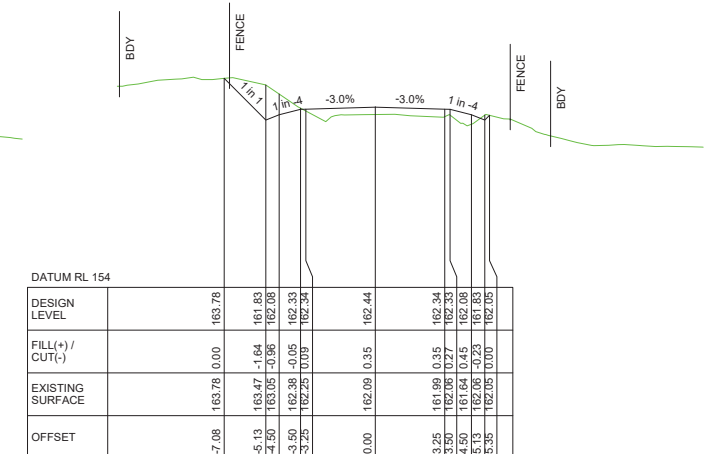
CH 1360.00



CH 1260.00



CH 1300.00



CH 1340.00

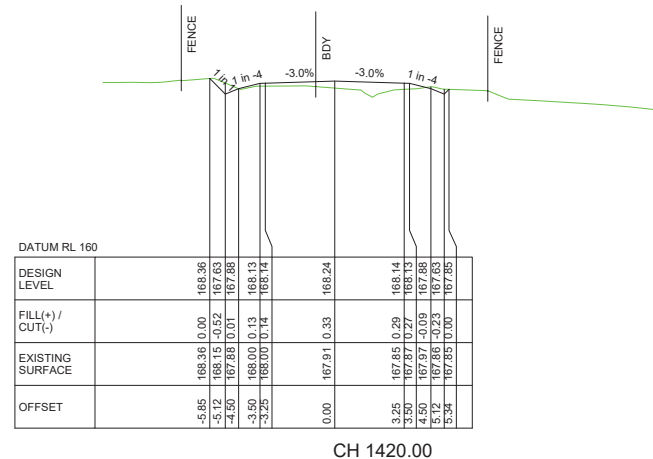
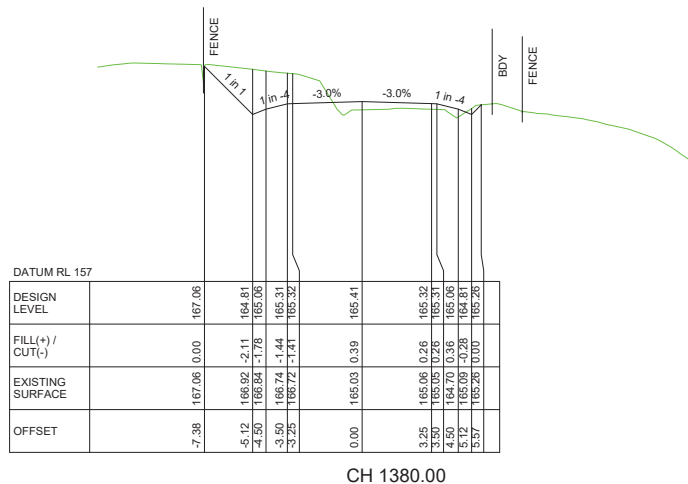
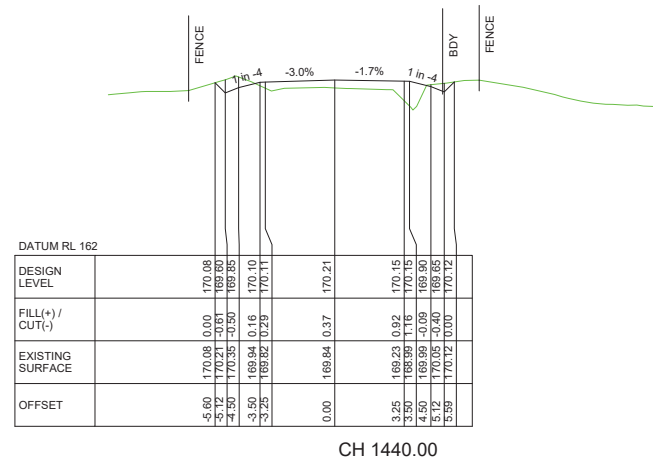
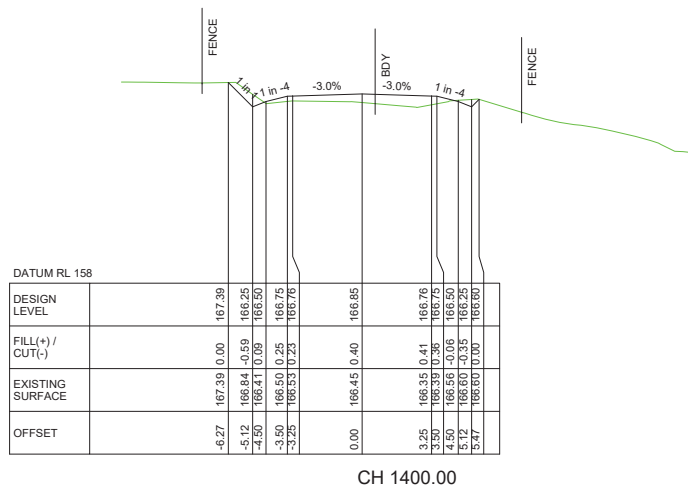
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Cross Section		
Scale	1:250 @A3	## 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4620.DWG		

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Client	Far North District Council		CS11
Project No.	8726	RC no.	Sheet No.
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Planner: pkillalea
RC: 2220252
Date: 20/12/2021



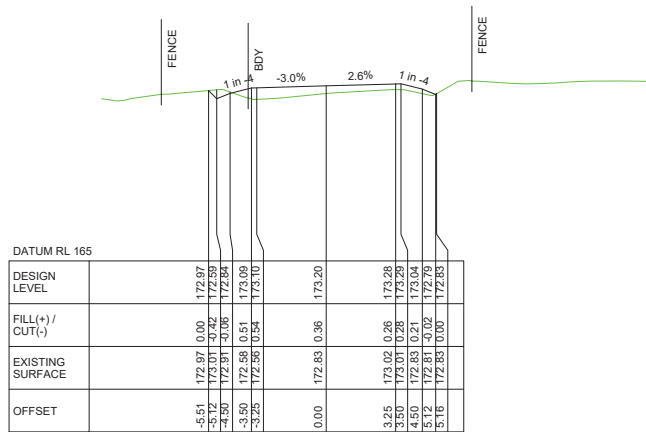
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Cross Section		
Scale	1:250 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED\874020.DWG		

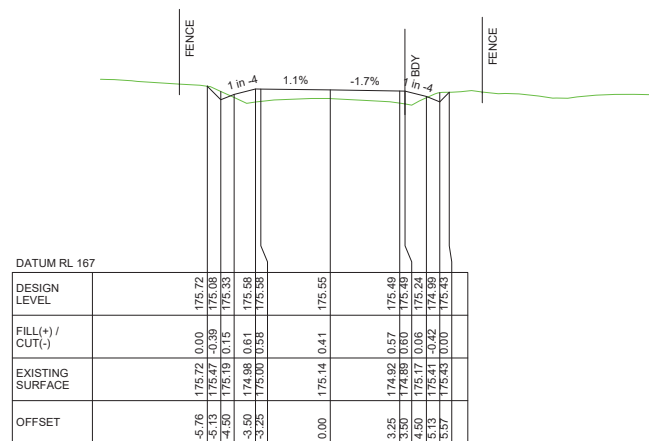
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Client	Far North District Council		CS12
Project No.	8726	RC no.	Sheet No.
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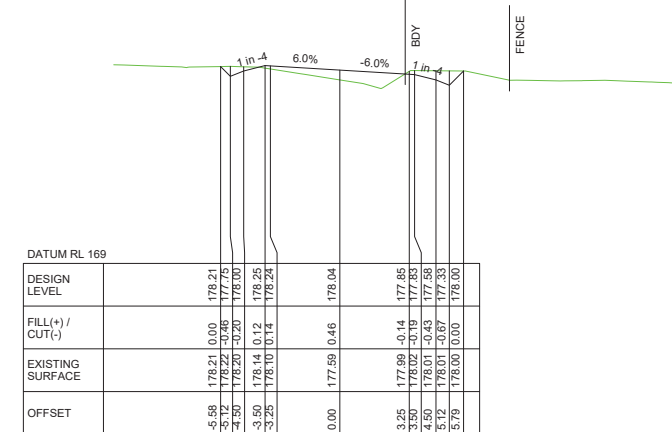
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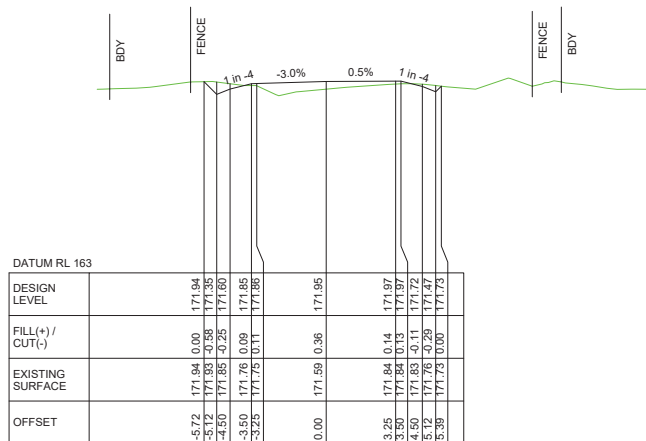
CH 1480.00



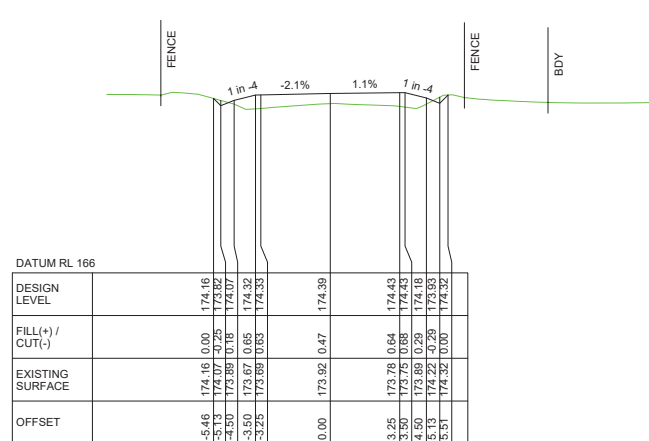
CH 1520.00



CH 1560.00



CH 1460.00



CH 1500.00



CH 1540.00

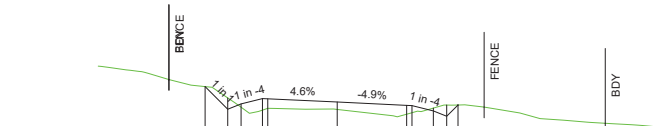
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Cross Section		
Scale	1:250 @A3	## 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4620.DWG		

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Client	Far North District Council		Sheet No.	13 of 44
Project No.	8726	RC no.		

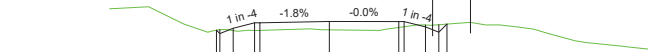
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RC: 2220252
Date: 20/12/2021



DATUM RL 172

DESIGN LEVEL	181.75
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	181.75
OFFSET	-6.18

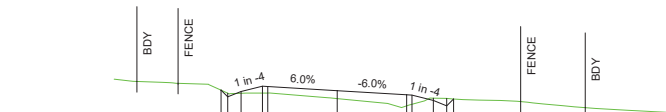
CH 1600.00



DATUM RL 175

DESIGN LEVEL	183.62
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	183.62
OFFSET	-5.28

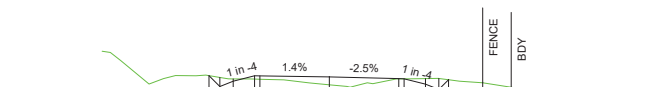
CH 1640.00



DATUM RL 171

DESIGN LEVEL	179.80
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	179.80
OFFSET	-5.44

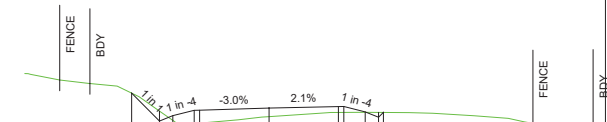
CH 1580.00



DATUM RL 174

DESIGN LEVEL	182.32
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	182.32
OFFSET	-5.63

CH 1620.00



DATUM RL 177

DESIGN LEVEL	186.14
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	186.14
OFFSET	-6.43

CH 1660.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3

Drawn NS Checked JM Approved JM

Date 26/03/2021

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Client Far North District Council

Project No. 8726

RC no.

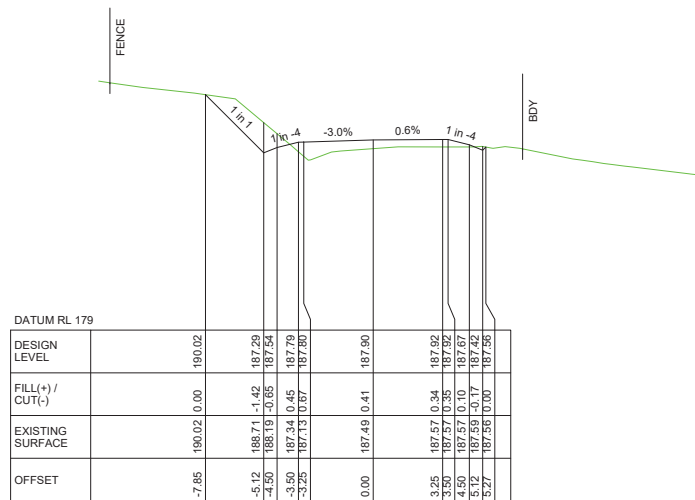
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CS14

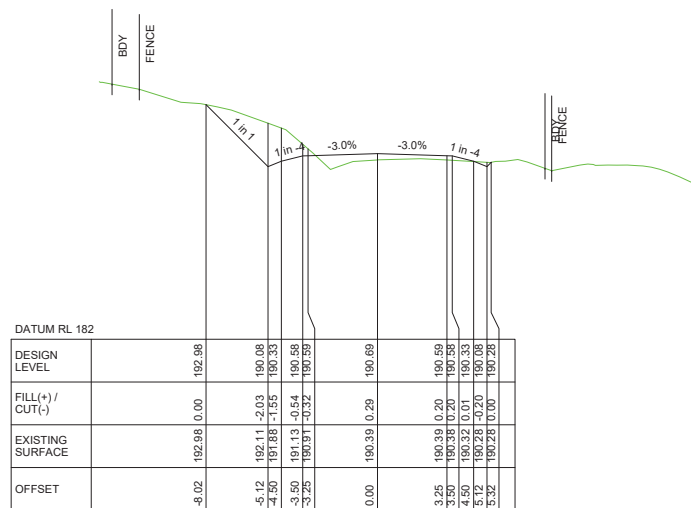
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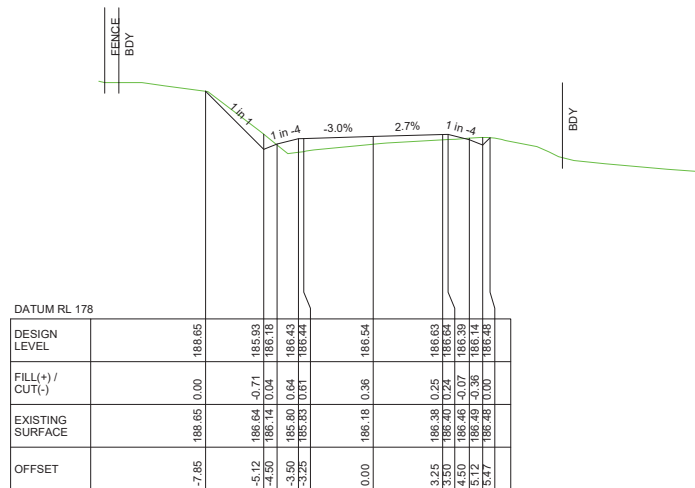
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RC: 2220252
Date: 20/12/2021



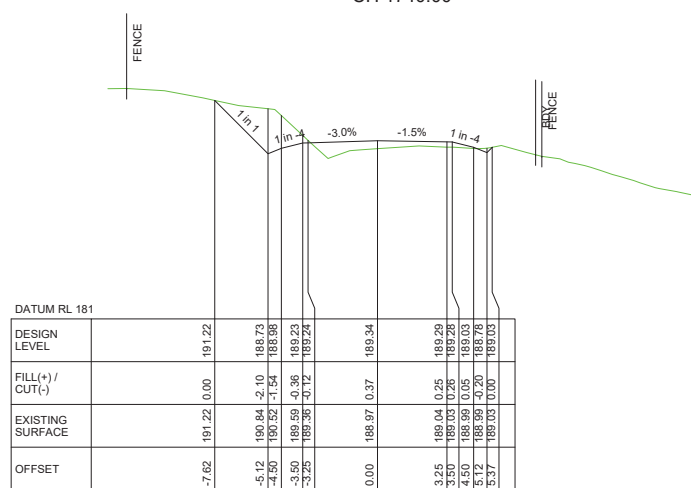
CH 1700.00



CH 1740.00



CH 1680.00



CH 1720.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1: 250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

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Project No. 8726

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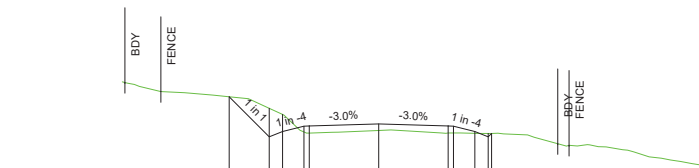
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CS15

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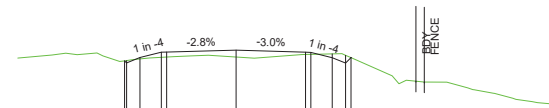
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RC: 2220252
Date: 20/12/2021



DATUM RL 184

DESIGN LEVEL	194.17
FILL(+) / CUT(-)	-5.12
EXISTING SURFACE	192.30
OFFSET	7.00

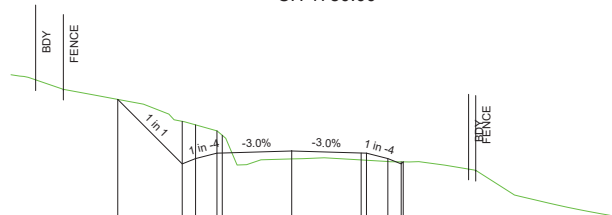
CH 1780.00



DATUM RL 185

DESIGN LEVEL	193.41
FILL(+) / CUT(-)	-5.12
EXISTING SURFACE	193.32
OFFSET	0.00

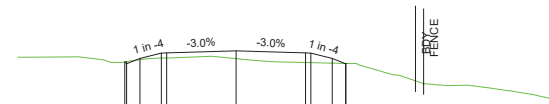
CH 1820.00



DATUM RL 183

DESIGN LEVEL	194.34
FILL(+) / CUT(-)	-5.12
EXISTING SURFACE	191.32
OFFSET	8.14

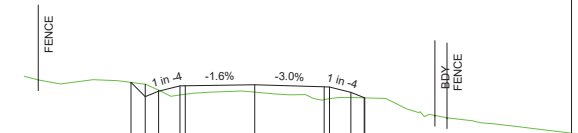
CH 1760.00



DATUM RL 185

DESIGN LEVEL	193.42
FILL(+) / CUT(-)	-5.12
EXISTING SURFACE	193.32
OFFSET	0.00

CH 1800.00



DATUM RL 186

DESIGN LEVEL	194.94
FILL(+) / CUT(-)	-5.79
EXISTING SURFACE	194.84
OFFSET	0.00

CH 1840.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

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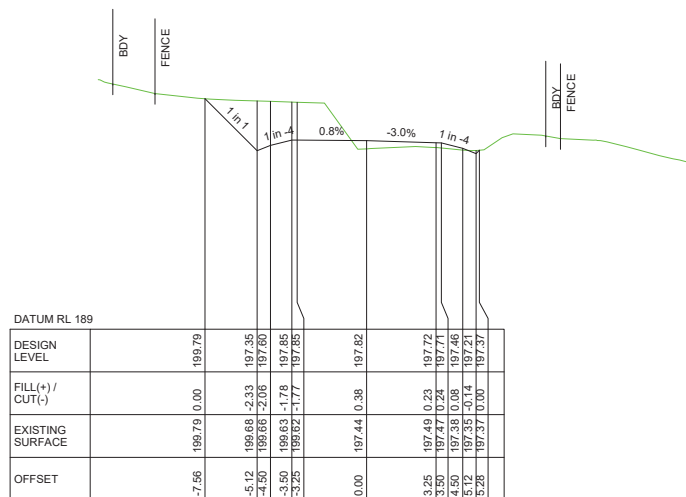
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CS16

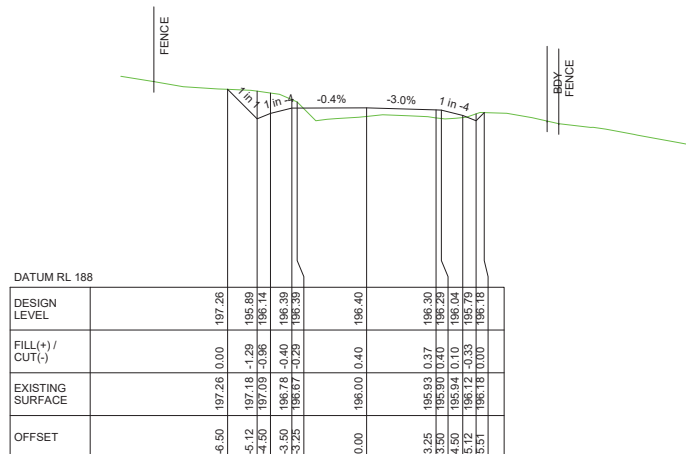
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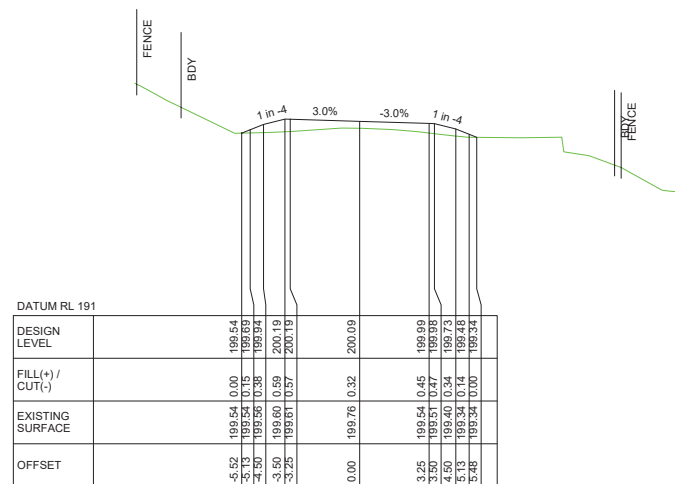
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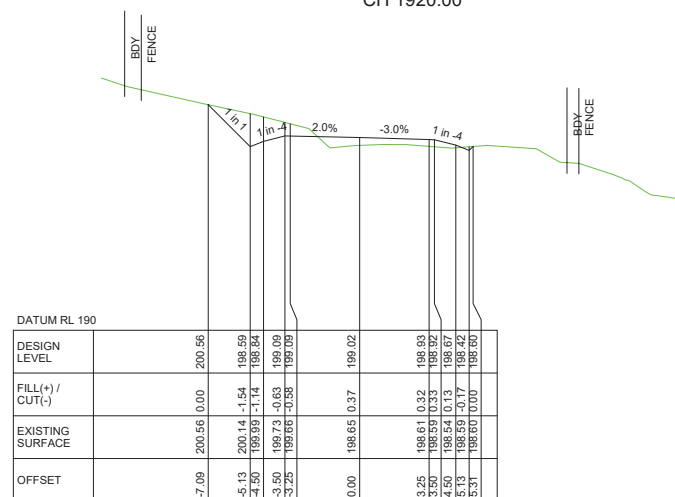
CH 1880.00



CH 1860.00



CH 1920.00



CH 1900.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3

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Date 26/03/2021

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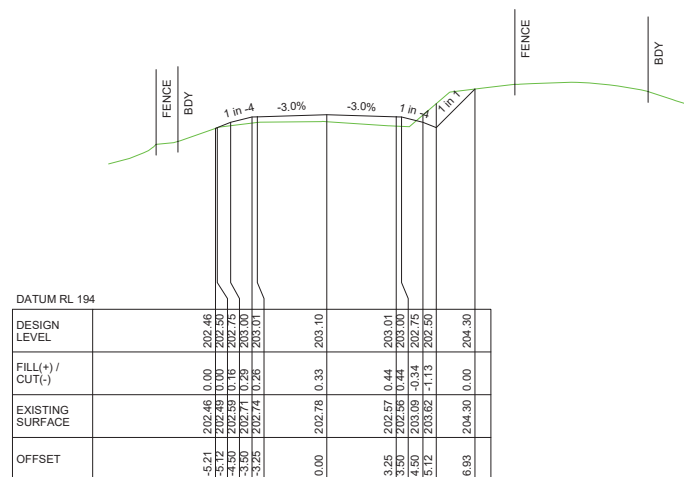
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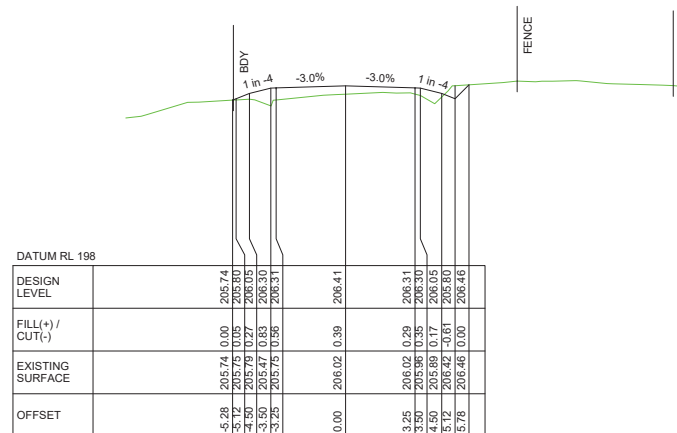
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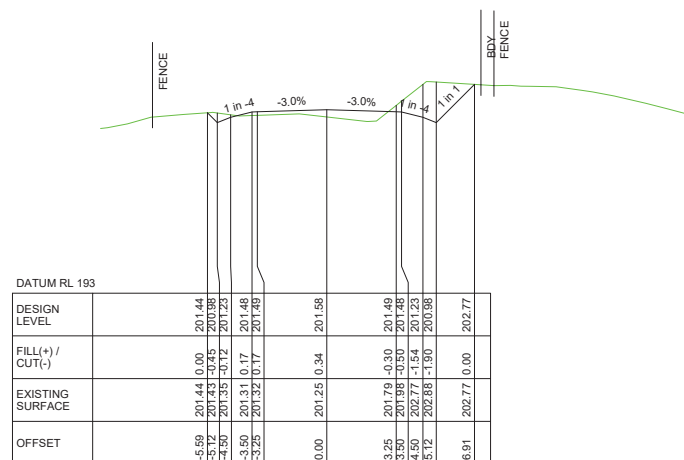
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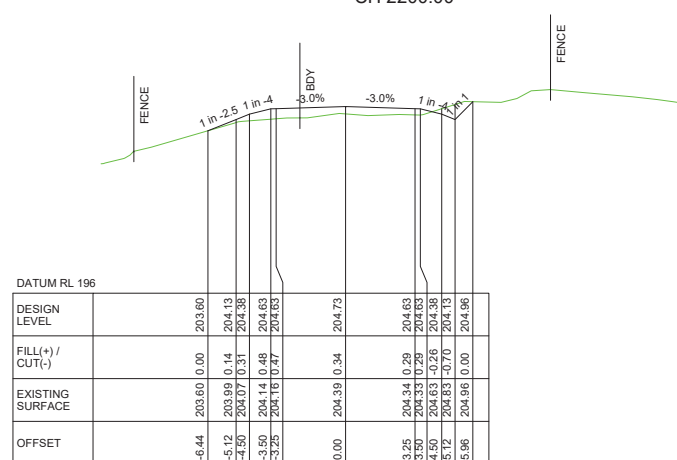
CH 2160.00



CH 2200.00



CH 2140.00



CH 2180.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

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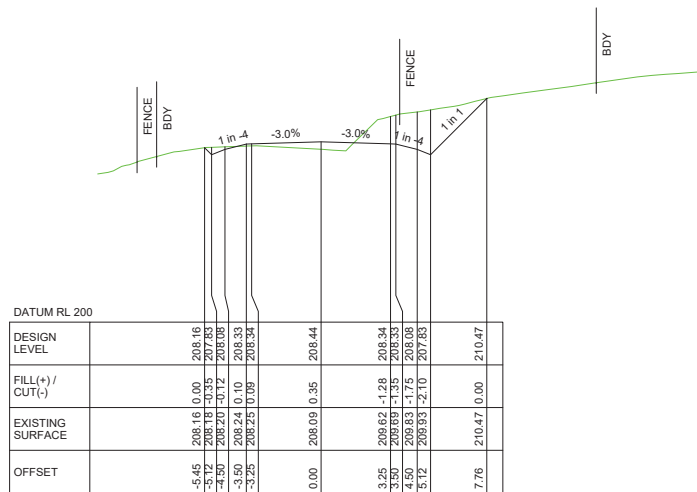
Project No. 8726

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DWG No.
CS20

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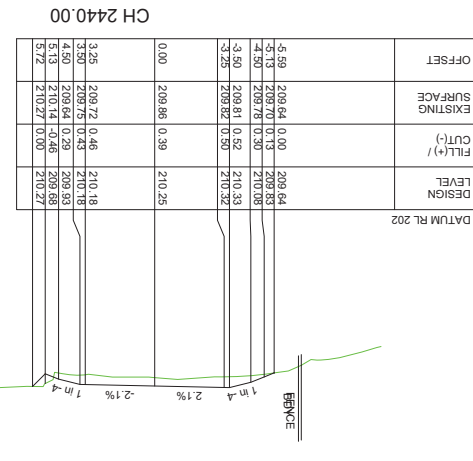
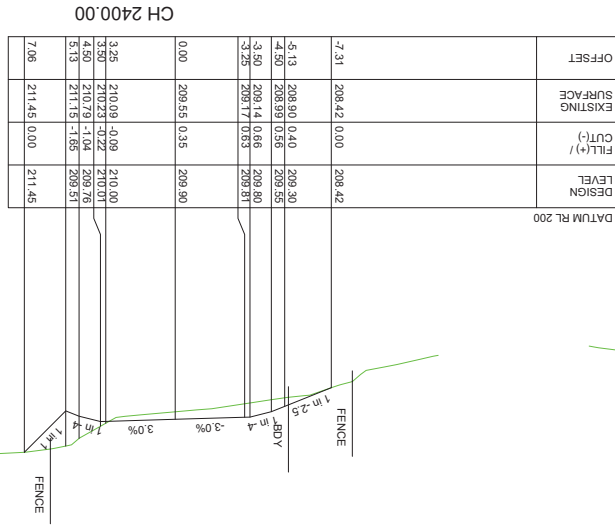
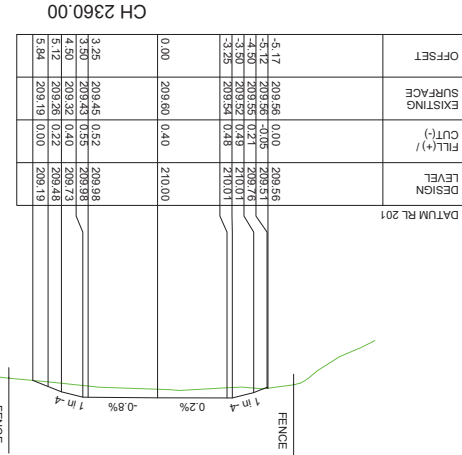
Planner: pkillalea
RC: 2220252
Date: 20/12/2021

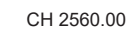


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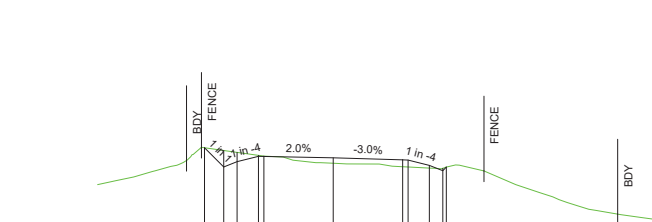




DWG		Ruapekapeka Road		Cross Section	
Scale	1: 250 @A3	## # 0 ## ##		Date	26/03/2021
Drawn	NS	Checked	JM	Approved	JM
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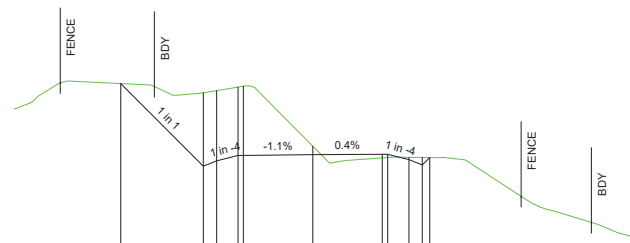
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	Client Far North District Council	
	Project No. 8726	RC no.

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



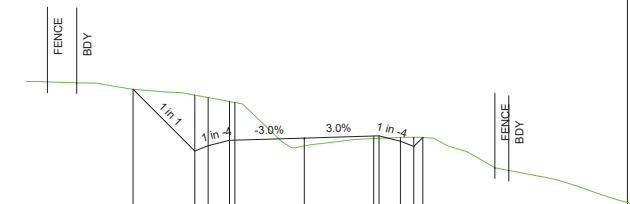
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FILL(+) / CUT(-)			
EXISTING SURFACE			
OFFSET			

CH 2600.00



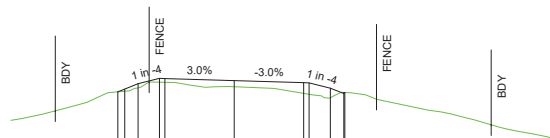
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CH 2640.00



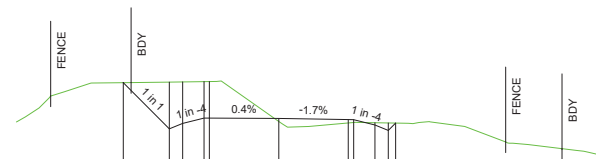
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CH 2680.00



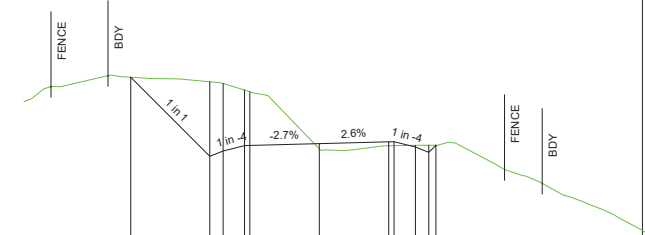
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EXISTING SURFACE			
OFFSET			

CH 2580.00



DATUM RL 207			
DESIGN LEVEL			
FILL(+) / CUT(-)			
EXISTING SURFACE			
OFFSET			

CH 2620.00



DATUM RL 212			
DESIGN LEVEL			
FILL(+) / CUT(-)			
EXISTING SURFACE			
OFFSET			

CH 2660.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3

Drawn NS Checked JM Approved JM

Date 26/03/2021

File P:\BUSINESS\8000-8999\8720 - 8719\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4020.DWG

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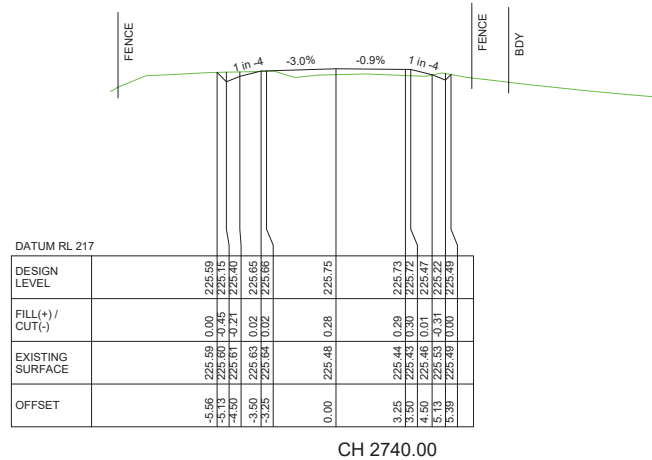
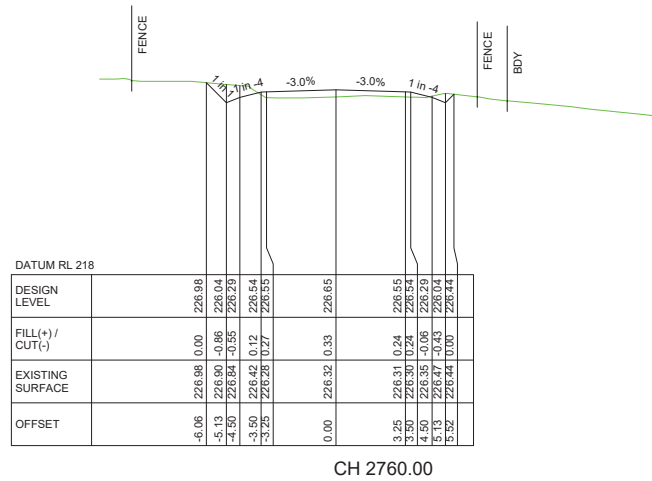
Client Far North District Council

Project No. 8726

RC no.

DWG No. CS24

Sheet No. 24 of 44



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

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Scale	1: 250 @A3	## # 0 ## ##	m	Date 26/03/2021
Drawn	NS	Checked	Approved	JM
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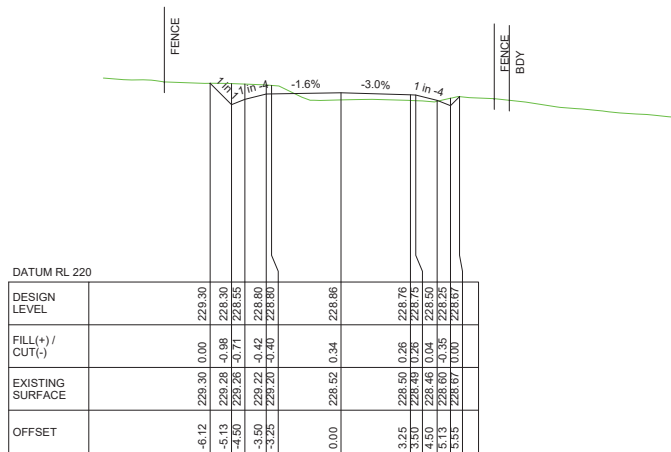
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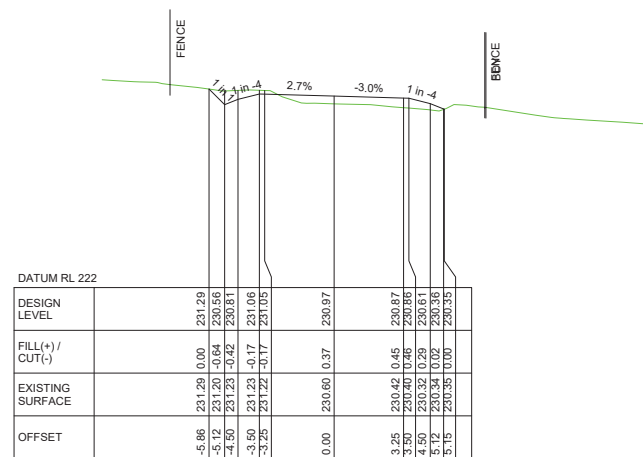
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Project	Ruaapekapeka Road - Seal Extension		DWG No.	CS25
Client	Far North District Council		Sheet No.	
Project No.	8726	RC no.	25 of 44	

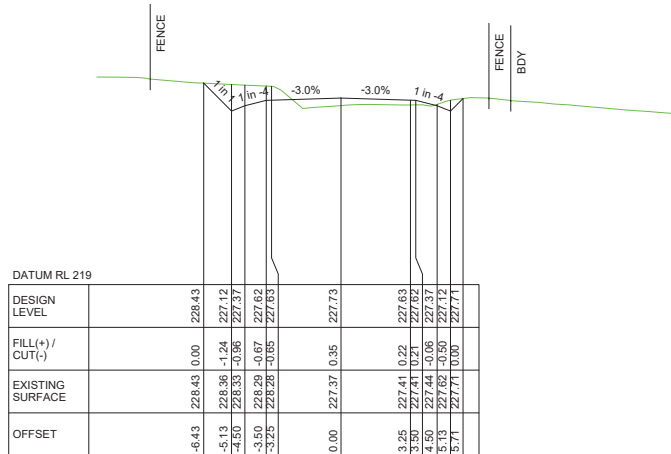
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RC: 2220252
Date: 20/12/2021



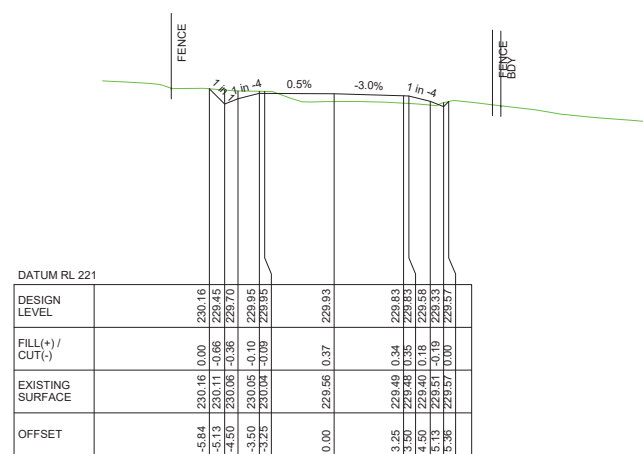
CH 2800.00



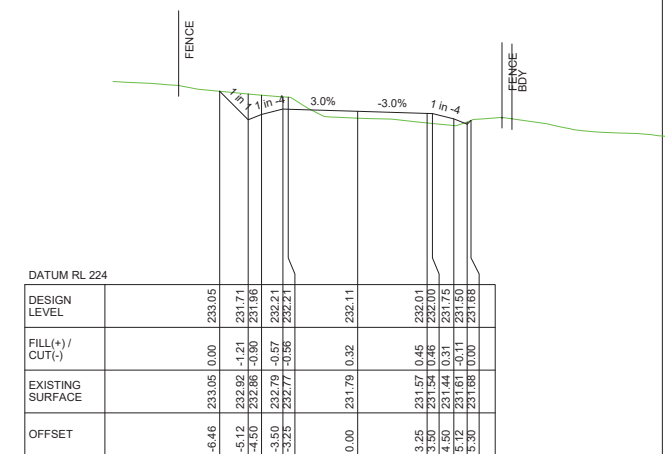
CH 2840.00



CH 2780.00



CH 2820.00



CH 2860.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3

Drawn NS Checked JM Approved JM

Date 26/03/2021

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

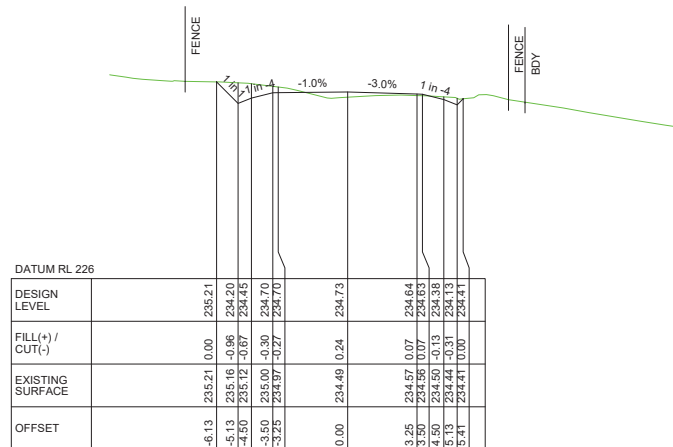
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CS26

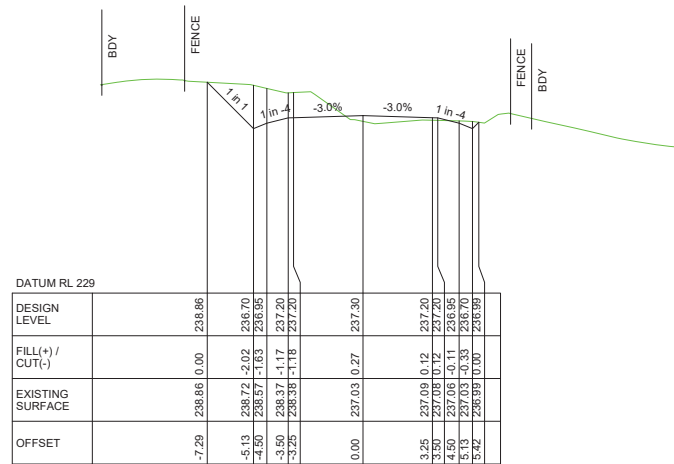
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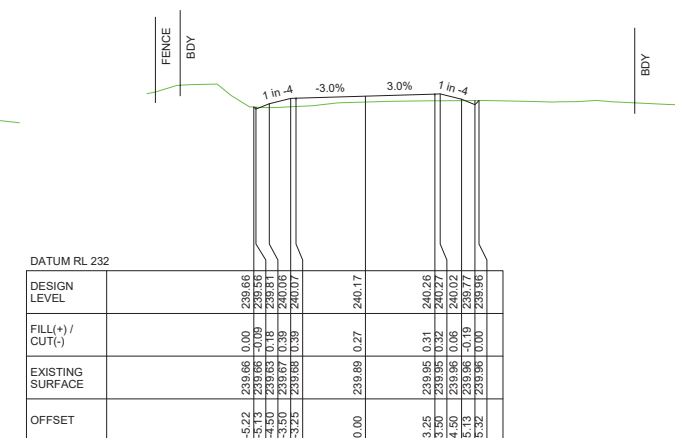
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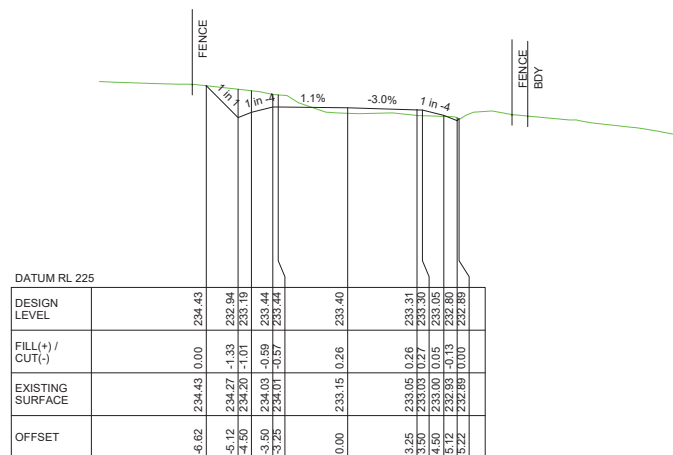
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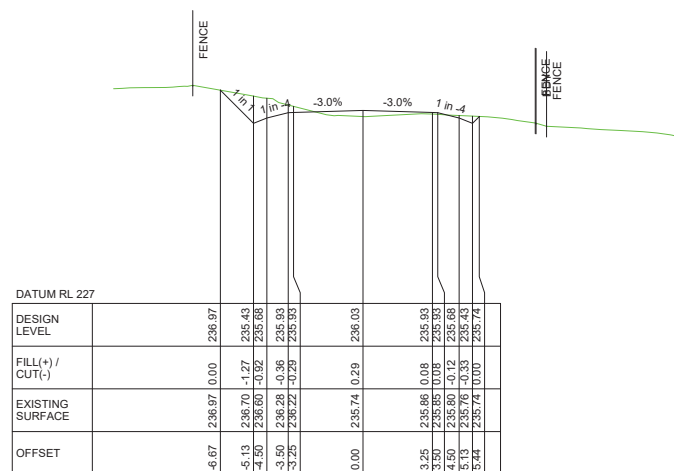
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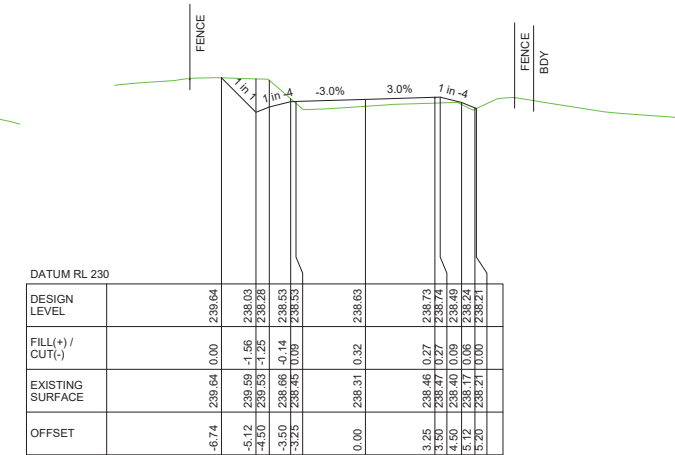
CH 2980.00



CH 2880.00



CH 2920.00



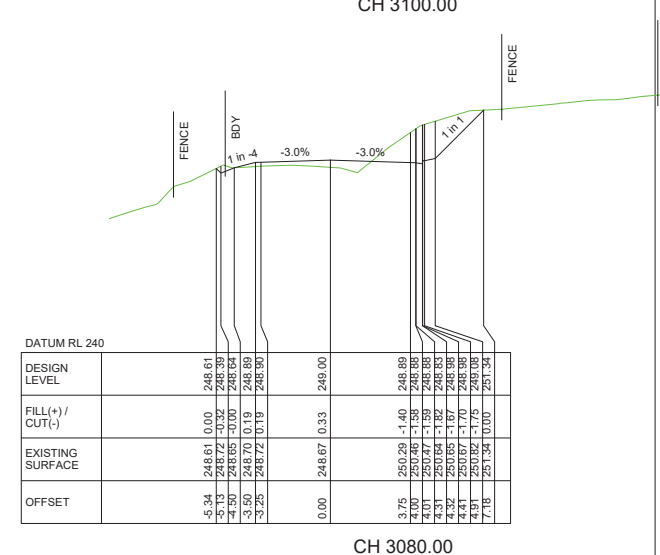
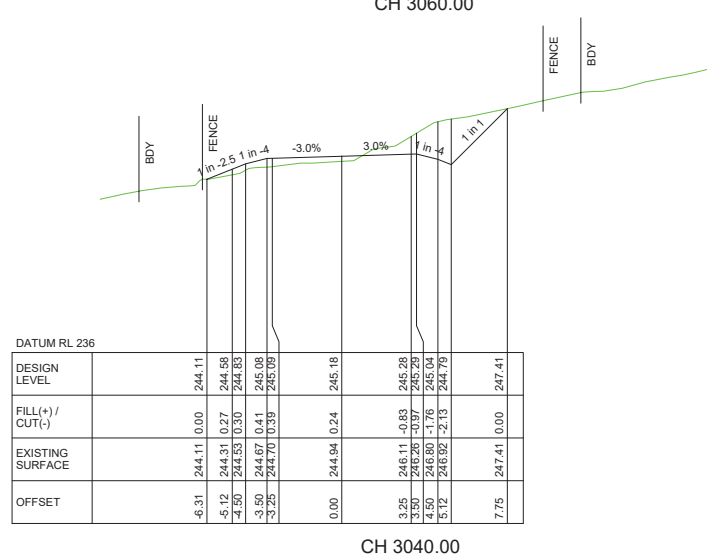
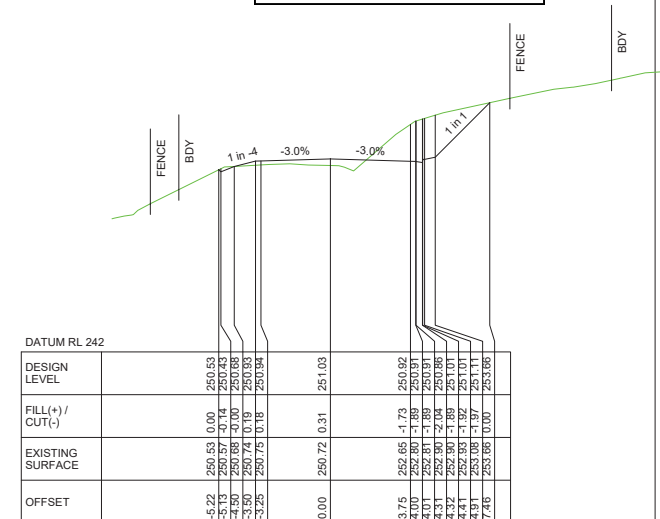
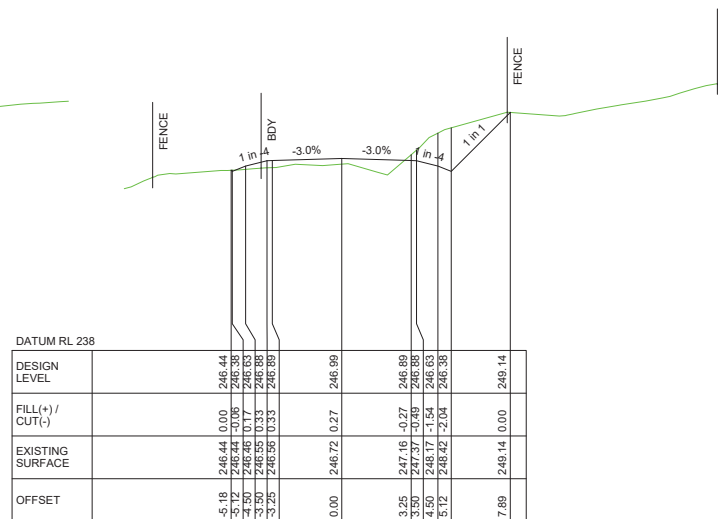
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Issue	Date	Revision
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Drawn	NS	Checked JM
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Project	Ruaapekepa Road - Seal Extension		DWG No.	CS27
Client	Far North District Council		Sheet No.	27 of 44
Project No.	8726	RC no.		



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruapekapeka Road Cross Section			
Scale	1: 250 @A3	###	#	###	Date 26/03/2021
Drawn	NS	Checked JM			Approved JM
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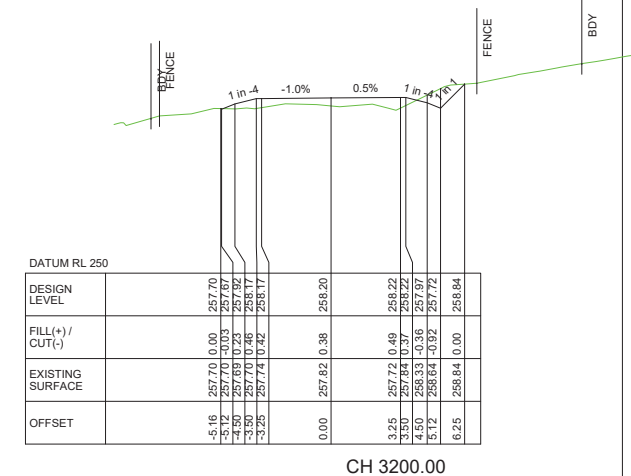
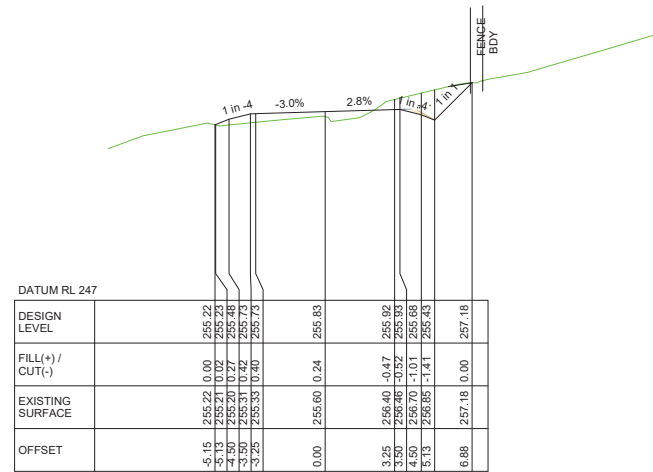
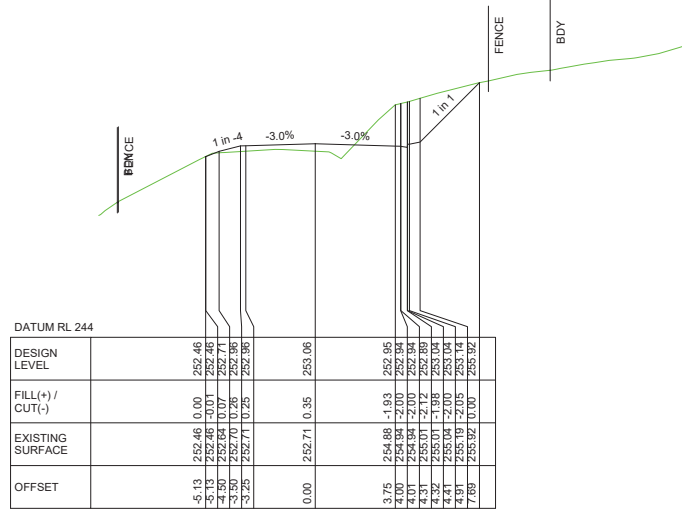
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22 31 NE IS. NG.	Project Ruapekapeka Road - Seal Extension		DWG No. CS28
	Client Far North District Council		Sheet No. 28 of 44
	Project No. 8726	RC no.	



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

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Scale	1: 250 @A3	###	#	0	###	##	Date	26/03/2021
Drawn	NS	Checked		JM	Approved		JM	
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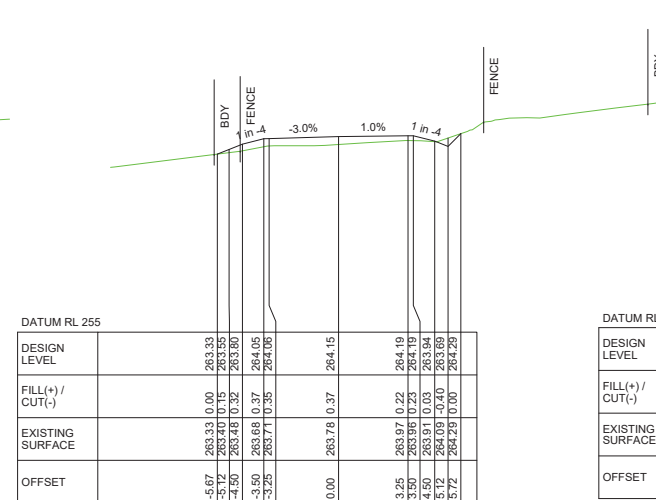
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	Client Far North District Council		CS29
	Project No. 8726	RC no.	Sheet No. 29 of 44

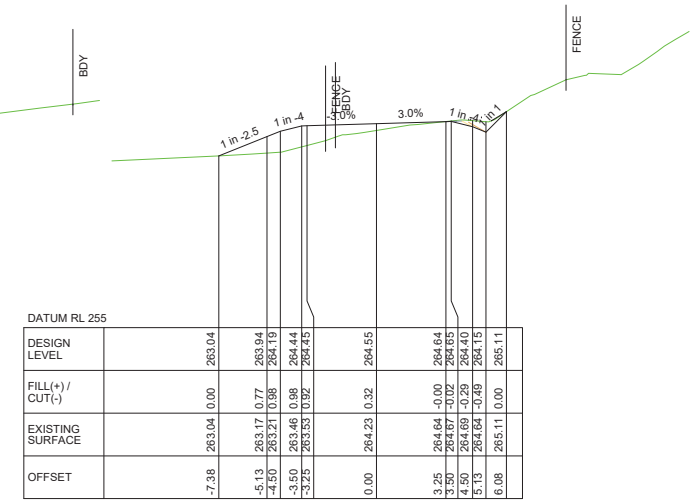
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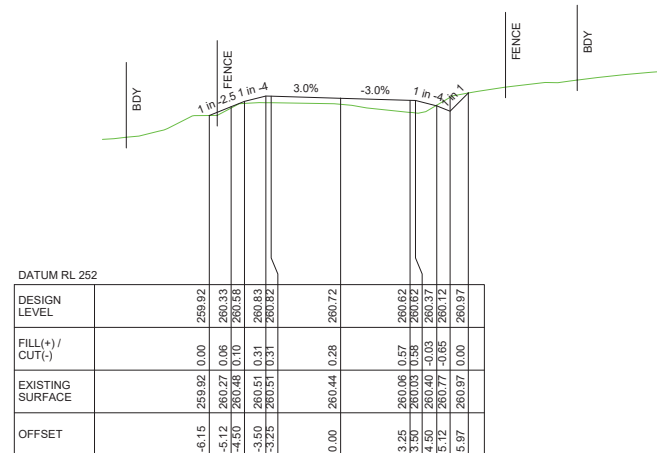
CH 3260.00



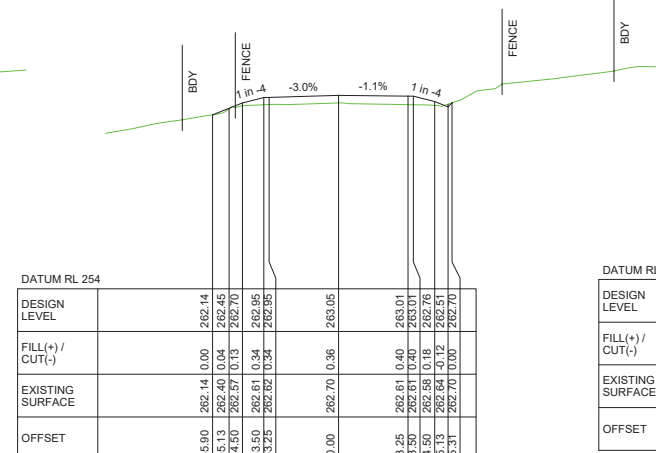
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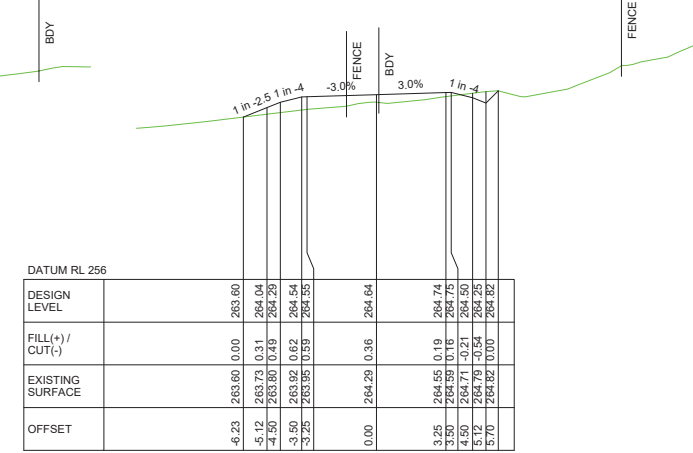
CH 3340.00



CH 3240.00



CH 3280.00



CH 3320.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

DWG No.

CS30

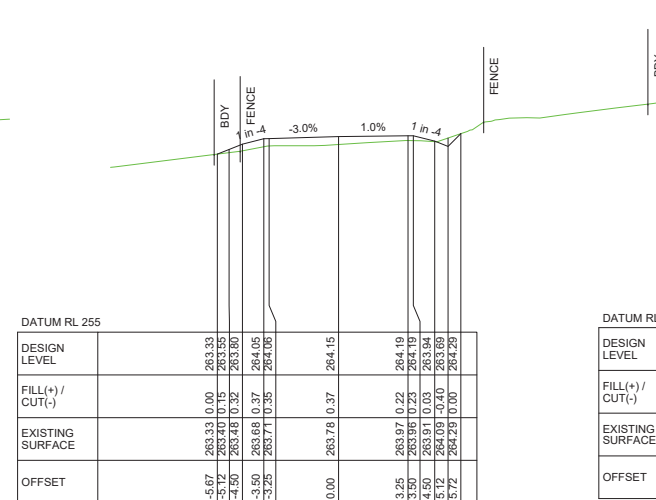
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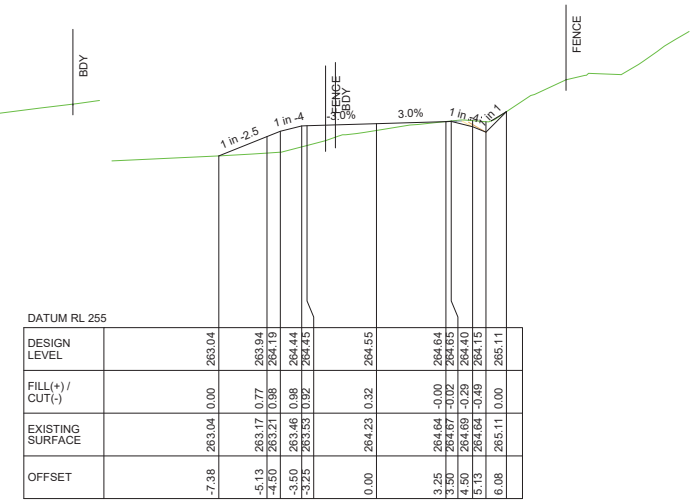
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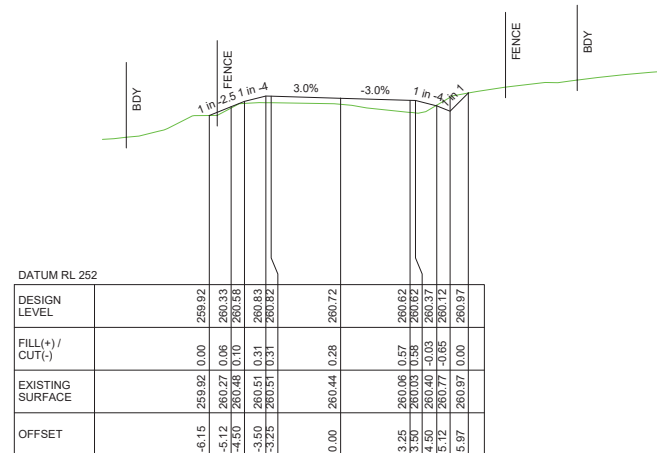
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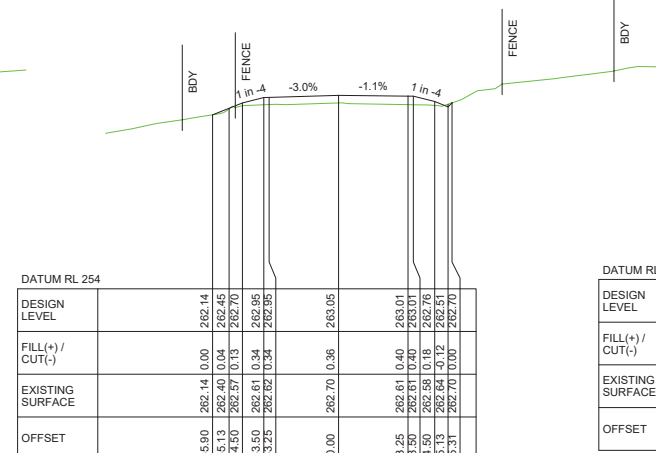
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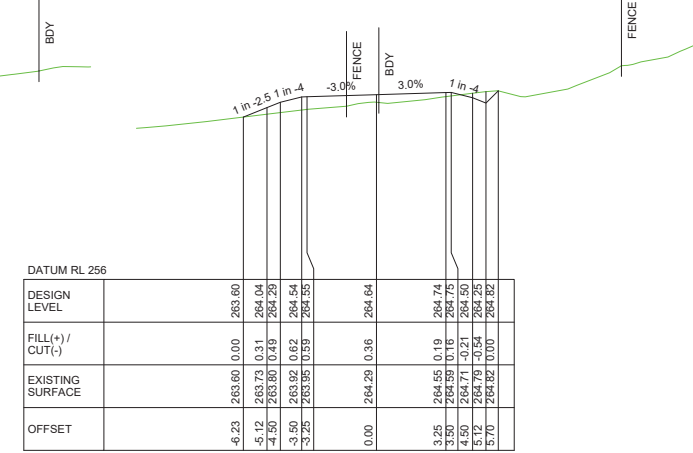
CH 3340.00



CH 3240.00



CH 3280.00



CH 3320.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4020.DWG

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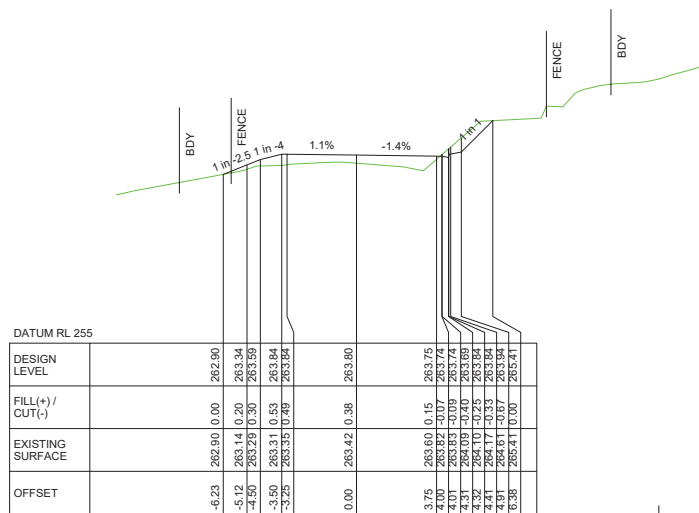
Project No. 8726

RC no.

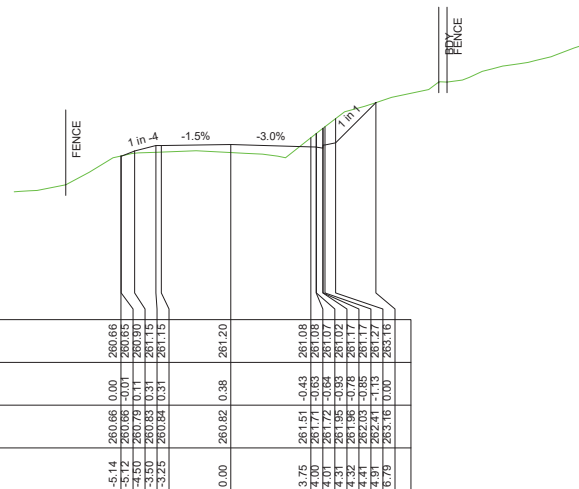
DWG No. CS31

Sheet No. 31 of 44

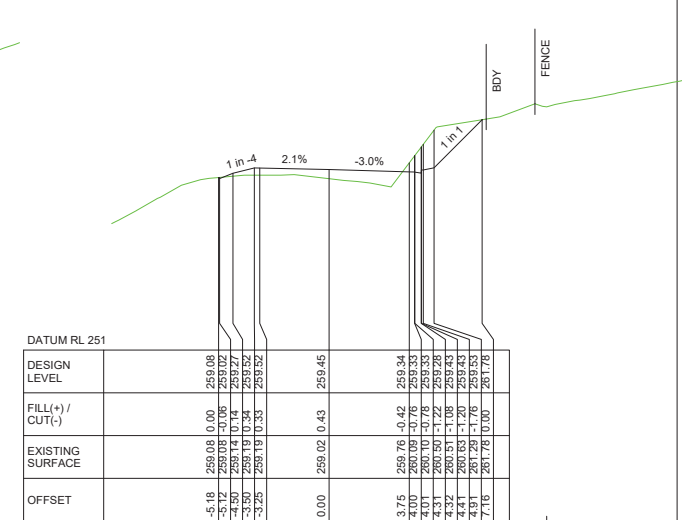
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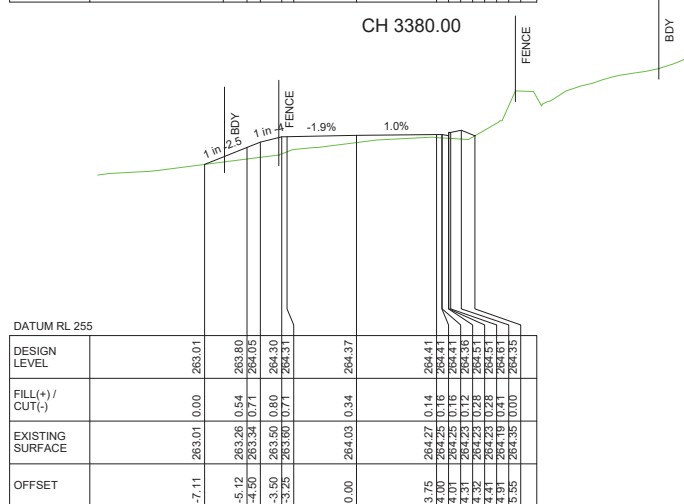
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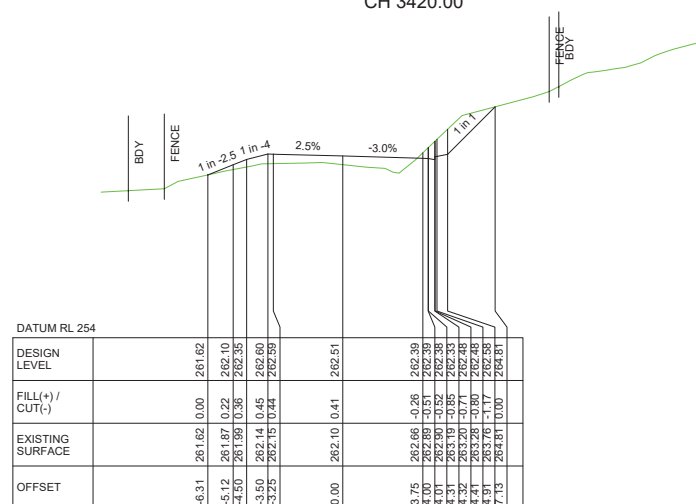
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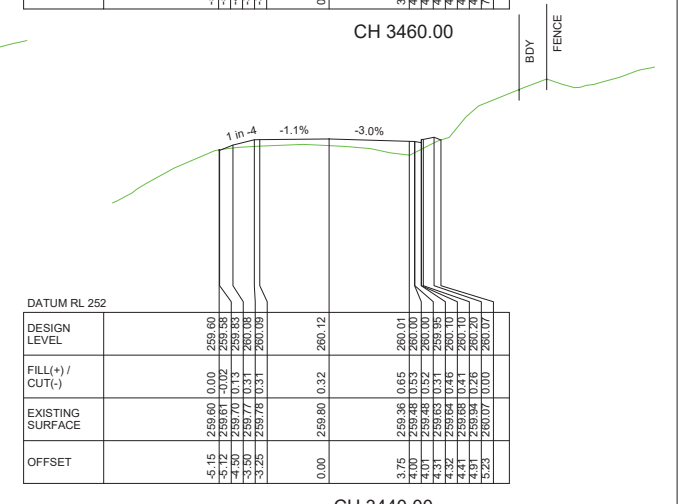
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CH 3360.00



CH 3400.00



CH 3440.00

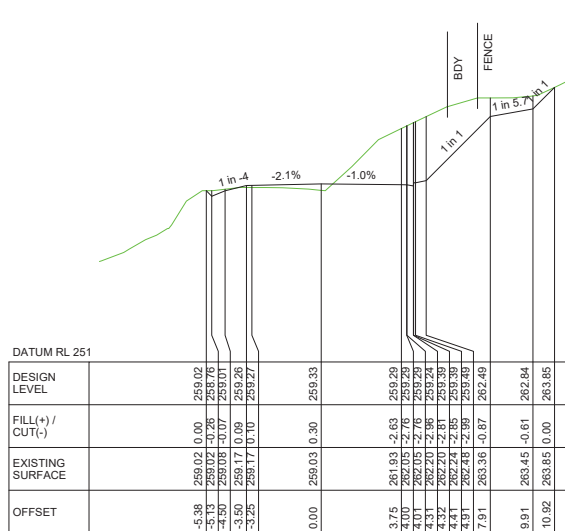
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A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Cross Section	
Scale	1:250 @A3	Date 26/03/2021
Drawn	NS	Checked JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED\874620.DWG	

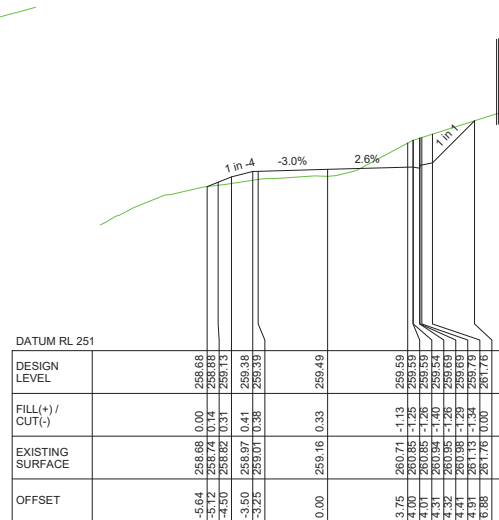
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Client	Far North District Council		Sheet No.	32 of 44
Project No.	8726	RC no.		

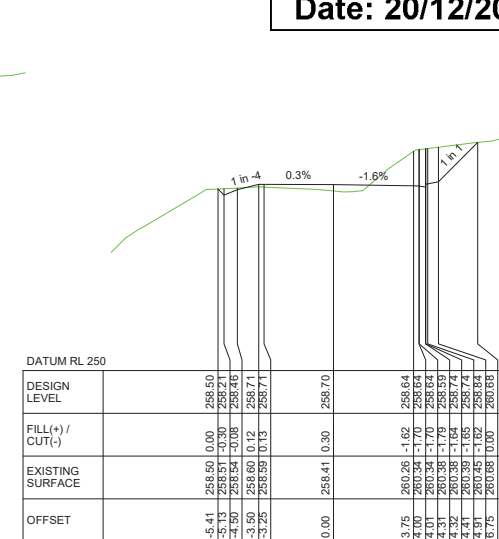
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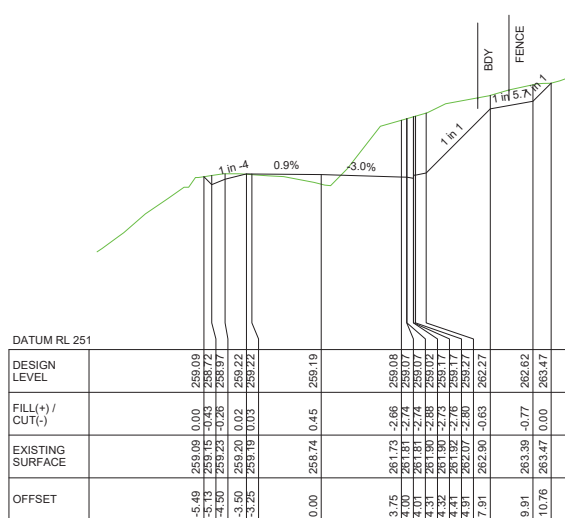
CH 3500.00



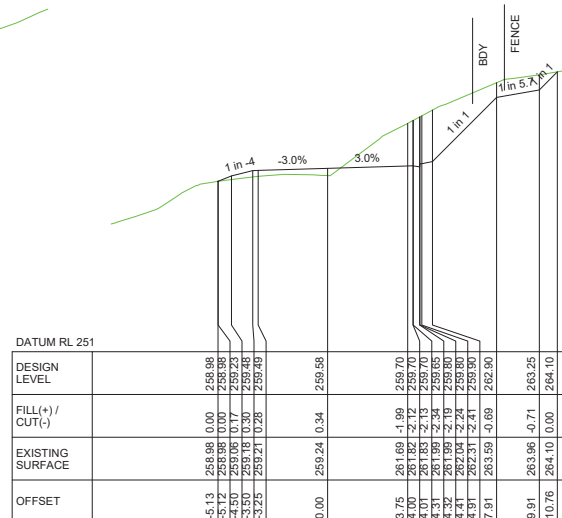
CH 3540.00



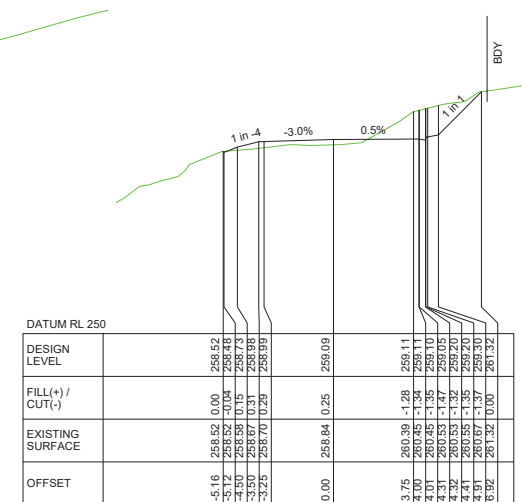
CH 3580.00



CH 3480.00



CH 3520.00



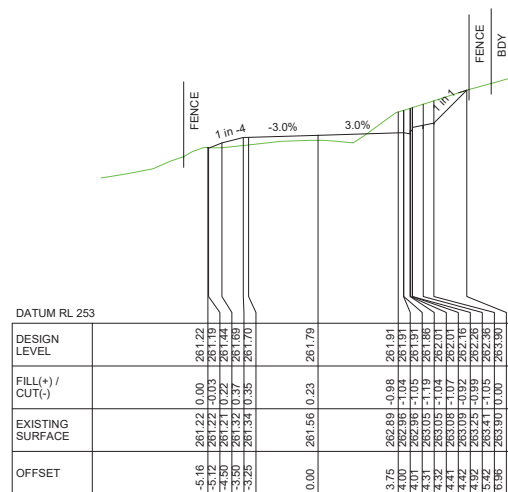
CH 3560.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

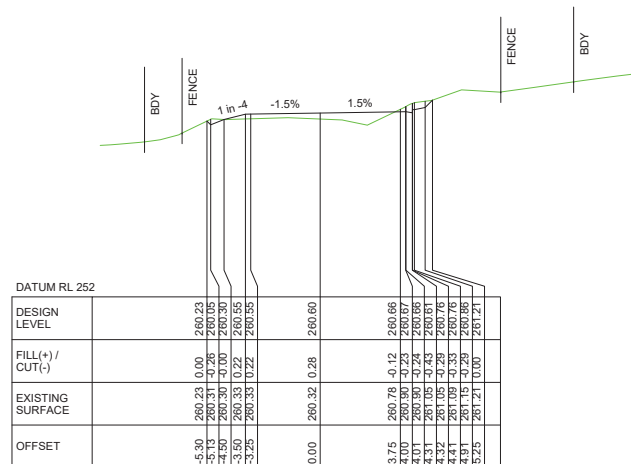
DWG	Rupekapeka Road Cross Section	
Scale	1:250 @A3	Date 26/03/2021
Drawn	NS	Checked JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED\874620.DWG	

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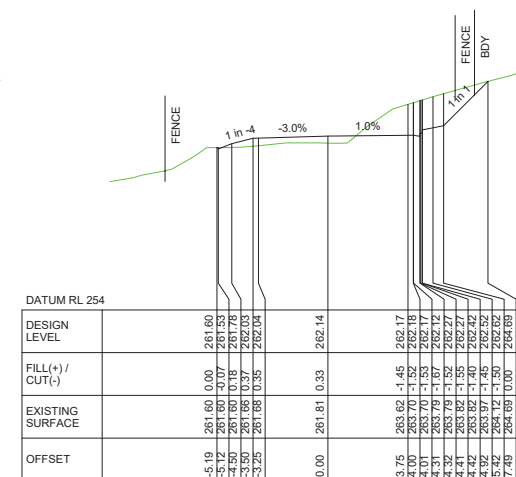
Project	Rupekapeka Road - Seal Extension		DWG No.	CS33
Client	Far North District Council		Sheet No.	33 of 44
Project No.	8726	RC no.		



CH 3660.00



CH 3640.00



CH 3680.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruapekapeka Road					
		Cross Section					
Scale	1:250 @A3	### 0 ### ###				Date	26/03/2021
Drawn	NS	Checked		JM		Approved	JM
File	P:\BUSINESS\8000-5999\870 - 879\8726 - FNC - RUPEKAPEKA ROAD\ENGINEERING\DRAWING\DRAWINGS\8726 - V19 BAW DESIGN CONSTRUCTION DRAWINGS - SAC EXTENDED ARCH\8000.DWG						

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22 31 N S. G.	Project Ruapekapeka Road - Seal Extension		DWG No.
	Client Far North District Council		CS34
	Project No. 8726	RC no.	Sheet No. 34 of 44

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

DATUM RL 253

DESIGN LEVEL	261.13
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	261.13
OFFSET	0.00

CH 3720.00

DATUM RL 252

DESIGN LEVEL	260.10
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	260.10
OFFSET	0.00

CH 3760.00

DATUM RL 253

DESIGN LEVEL	261.32
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	261.32
OFFSET	0.00

CH 3700.00

DATUM RL 253

DESIGN LEVEL	260.96
FILL(+) / CUT(-)	0.00
EXISTING SURFACE	260.96
OFFSET	0.00

CH 3740.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3

Drawn NS Checked JM Approved JM

Date 26/03/2021

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

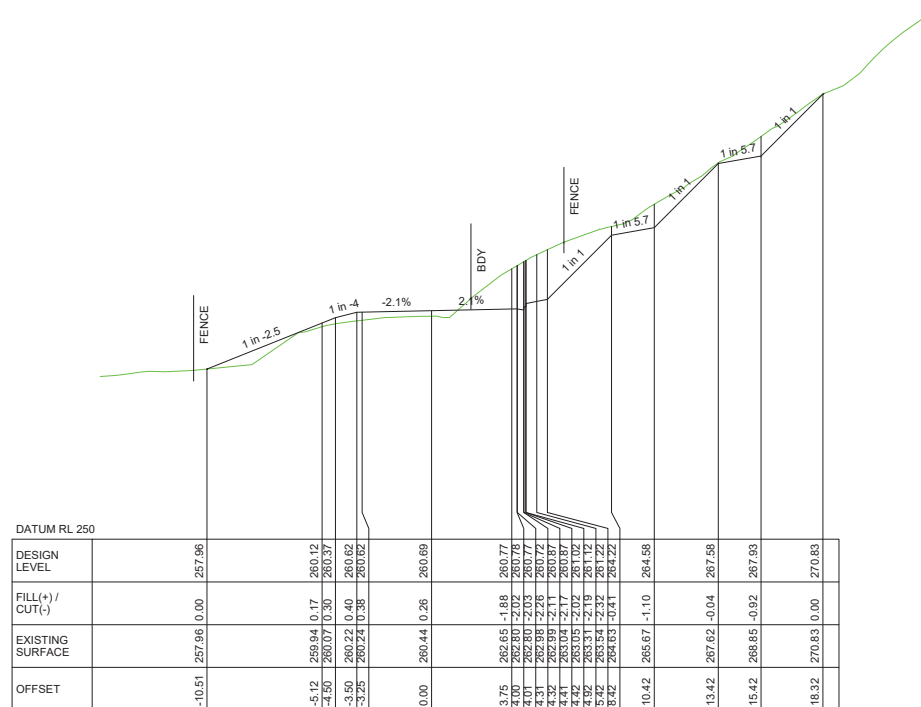
DWG No.

CS35

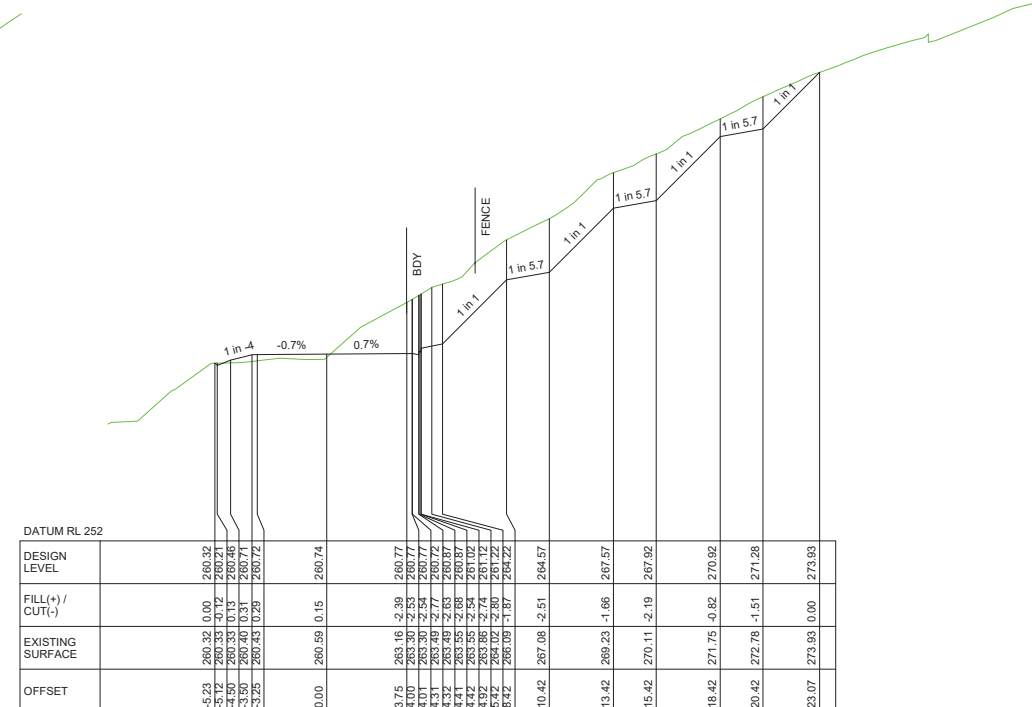
Sheet No.

35 of 44

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



CH 3780.00



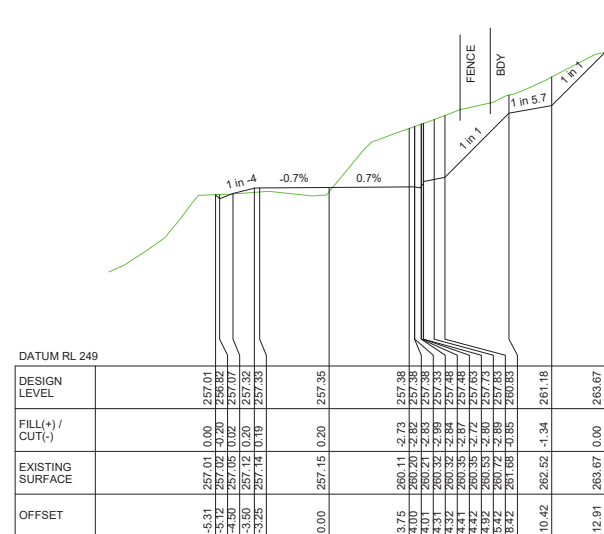
CH 3800.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

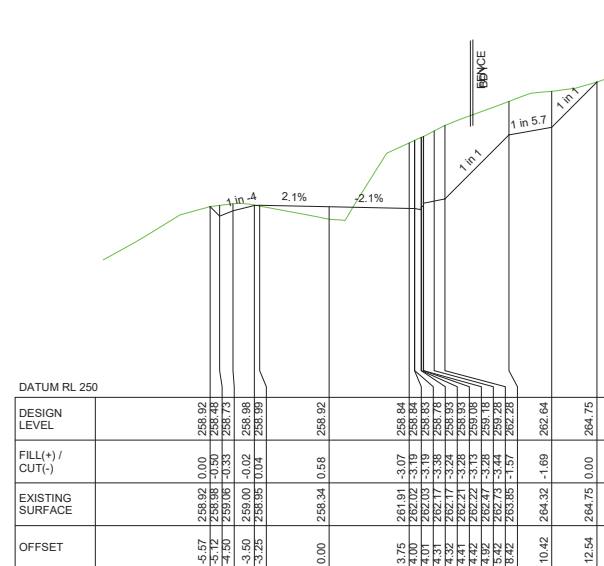
DWG	Ruapekapeka Road Cross Section		
Scale	1:250 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNC - RUPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED & CH4620.DWG		

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Client	Far North District Council		Sheet No.	36 of 44
Project No.	8726	RC no.		



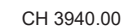
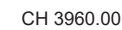
CH 3880.00



CH 3860.00

DWG No.
CS37

Sheet No.
37 of 44



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1: 250 @A3 Date 26/03/2021

Drawn	NS	Checked	JM	Approved	JM
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Project	Ruapekapeka Road - Seal Extension
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Client	Far North District Council
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Project No.	8726
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RC no.	
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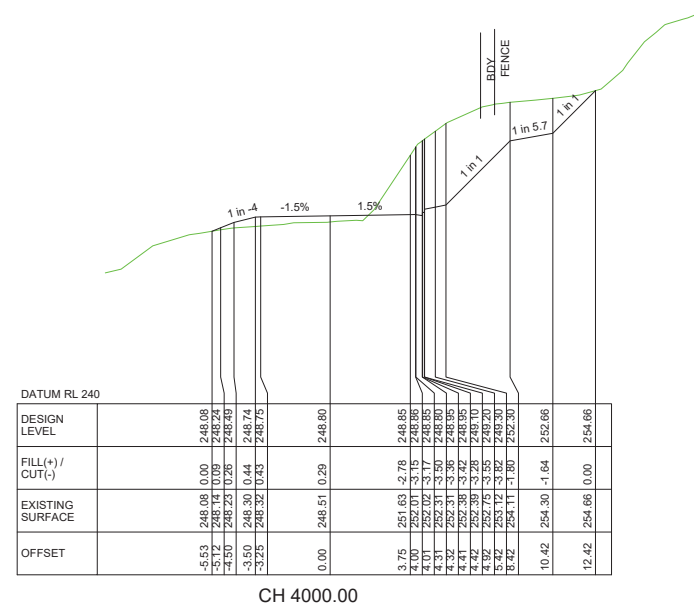
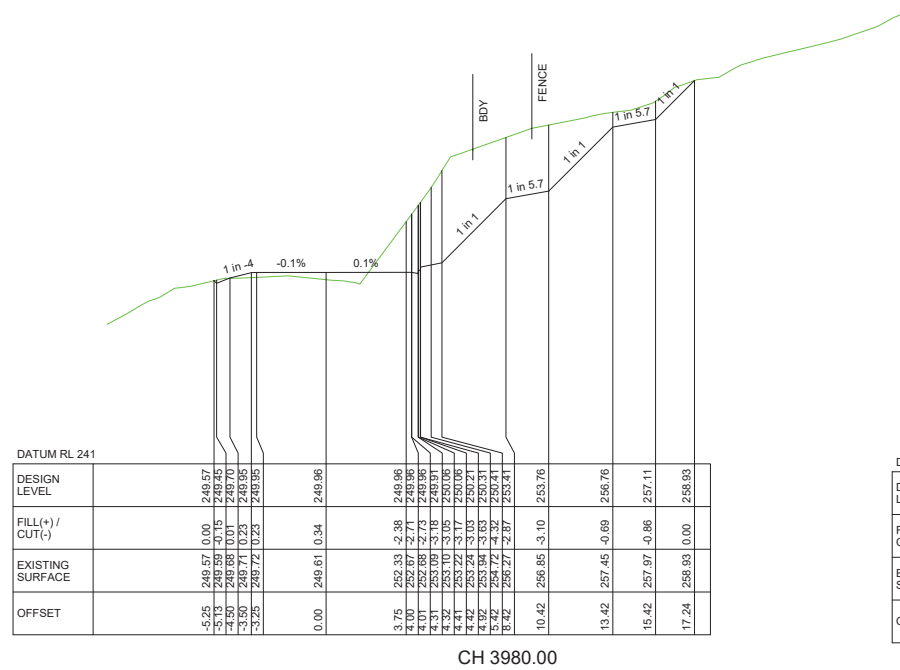
DWG No.

CS38

Sheet No.

38 of 44

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

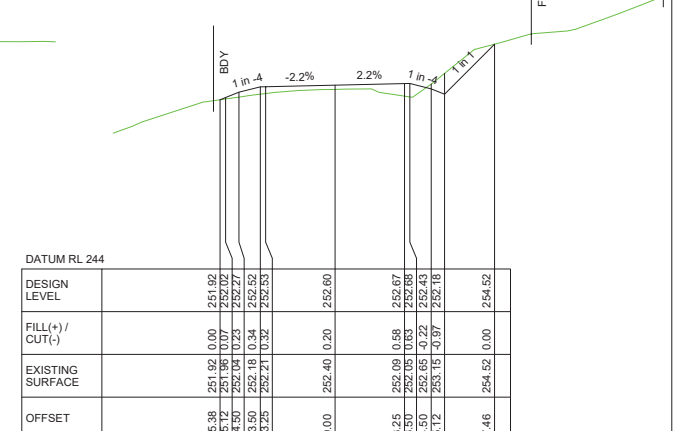
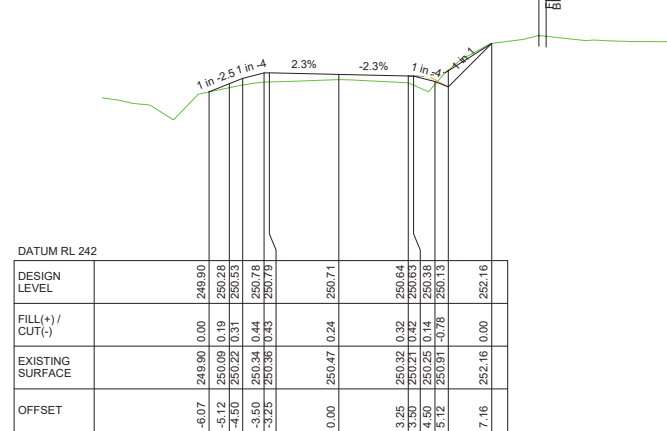
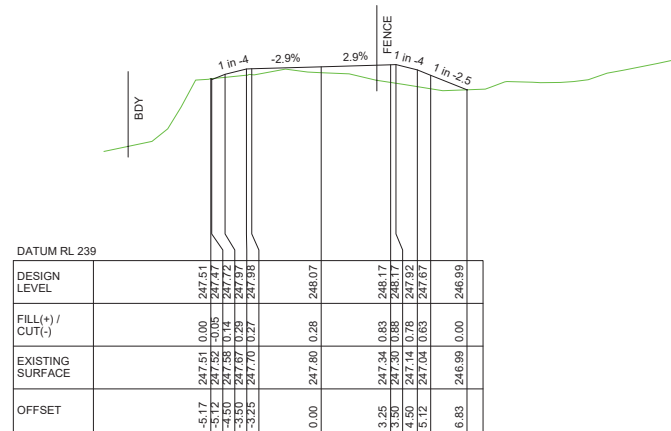


Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Ruapekapeka Road Cross Section		
Scale	1:250 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
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Project	Ruapekapeka Road - Seal Extension		DWG No.	CS39
Client	Far North District Council		Sheet No.	39 of 44
Project No.	8726	RC no.		



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Ruapekapeka Road Cross Section						
Scale	1: 250 @A3	###	#	0	###	##	Date	26/03/2021
	Drawn							
File	P:\BUSINESS\ROADS\8000-8999\8700 - 8799\8726 - FNDIC - RUAPEKAPEKA ROAD\ENGINEERING\CONSTRUCTION DRAWINGS - MAG EXTENDED\8700-8999\DWG							

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	Client Far North District Council		Sheet No. 40 of 44
	Project No. 8726	RC no.	

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

DATUM RL 249

DESIGN LEVEL	257.28	257.16	257.41	257.86	257.01	257.64	259.86
FILL(+) / CUT(-)	0.00	-0.14	0.00	0.23	0.29	0.27	0.00
EXISTING SURFACE	257.28	257.30	257.41	257.63	257.30	257.91	259.86
OFFSET	-5.25	-4.50	-3.50	-3.25	0.00	3.25	7.87

CH 4160.00

DATUM RL 247

DESIGN LEVEL	255.66	255.84	255.89	256.14	256.07	256.00	254.55
FILL(+) / CUT(-)	0.00	-0.03	0.15	0.33	0.36	0.20	0.00
EXISTING SURFACE	255.66	255.87	256.04	256.47	256.43	256.20	254.55
OFFSET	-5.15	-4.30	-3.30	-3.25	0.00	3.25	7.49

CH 4140.00

DATUM RL 252

DESIGN LEVEL	260.25	260.13	260.38	260.04	260.70	260.77	262.52
FILL(+) / CUT(-)	0.00	-0.13	0.07	0.17	0.28	0.79	0.00
EXISTING SURFACE	260.25	260.26	260.45	260.21	260.98	261.56	262.52
OFFSET	-5.24	-4.50	-3.50	-2.25	0.00	3.25	7.37

CH 4200.00

DATUM RL 251

DESIGN LEVEL	258.63	258.54	258.79	258.84	258.59	260.58
FILL(+) / CUT(-)	0.00	-0.10	0.12	0.27	-0.56	0.00
EXISTING SURFACE	258.63	258.64	258.91	259.11	258.03	260.58
OFFSET	-5.22	-4.50	-3.50	-3.25	0.00	7.12

CH 4180.00

DATUM RL 256

DESIGN LEVEL	263.07	263.86	264.11	264.37	264.37	264.37	265.55
FILL(+) / CUT(-)	0.00	0.16	0.33	0.37	0.21	-0.34	0.00
EXISTING SURFACE	263.07	264.02	264.44	264.74	264.58	264.03	265.55
OFFSET	-5.23	-4.50	-3.50	-3.25	0.00	3.25	7.37

CH 4240.00

DATUM RL 254

DESIGN LEVEL	262.24	262.04	262.29	262.55	262.62	262.69	265.24
FILL(+) / CUT(-)	0.00	-0.21	0.17	0.16	-0.86	-2.15	0.00
EXISTING SURFACE	262.24	262.25	262.46	262.71	261.76	260.54	265.24
OFFSET	-5.32	-4.50	-3.50	-3.25	0.00	3.25	7.12

CH 4220.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1:250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

DWG No.

CS41

Sheet No.

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Planner: pkillalea
RC: 2220252
Date: 20/12/2021

DATUM RL 259

DESIGN LEVEL	267.23
FILL(+) / CUT(-)	267.01
EXISTING SURFACE	267.59
OFFSET	5.35

CH 4280.00

DATUM RL 262

DESIGN LEVEL	270.39
FILL(+) / CUT(-)	270.24
EXISTING SURFACE	270.49
OFFSET	5.27

CH 4320.00

DATUM RL 257

DESIGN LEVEL	265.54
FILL(+) / CUT(-)	265.37
EXISTING SURFACE	265.88
OFFSET	5.30

CH 4260.00

DATUM RL 261

DESIGN LEVEL	268.75
FILL(+) / CUT(-)	268.59
EXISTING SURFACE	269.03
OFFSET	5.28

CH 4300.00

DATUM RL 266

DESIGN LEVEL	274.13
FILL(+) / CUT(-)	273.90
EXISTING SURFACE	274.15
OFFSET	5.36

CH 4360.00

DATUM RL 264

DESIGN LEVEL	272.26
FILL(+) / CUT(-)	272.06
EXISTING SURFACE	272.57
OFFSET	5.38

CH 4340.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

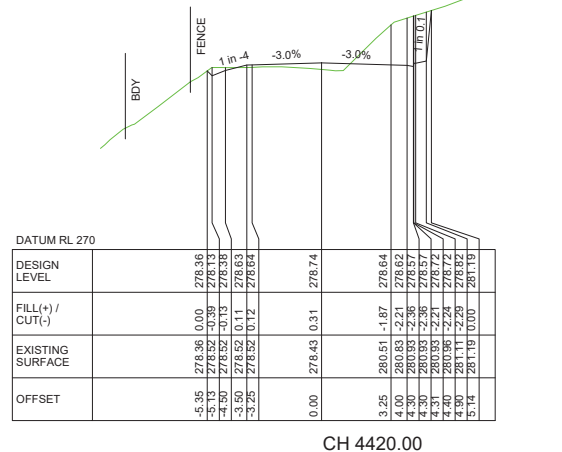
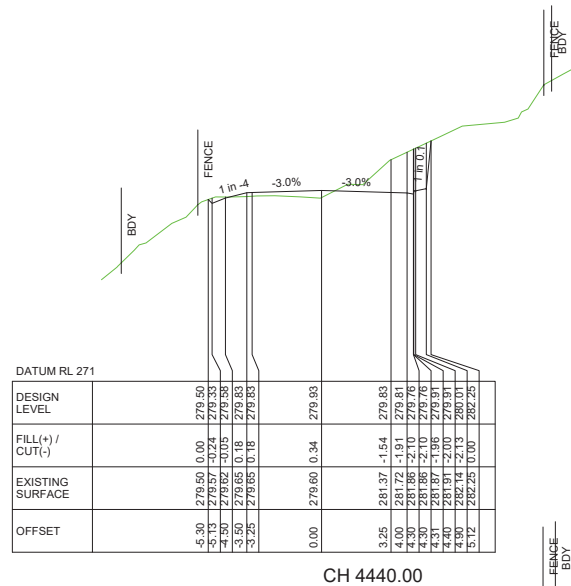
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Drawn	NS	Checked	JM
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Project	Ruapekapeka Road - Seal Extension
Client	Far North District Council
Project No.	8726
RC no.	

DWG No.
CS42
Sheet No.
42 of 44



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Ruapekapeka Road
Cross Section

Scale 1: 250 @A3

Drawn	NS	Checked	JM	Approved	JM
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Project	Ruapekapeka Road - Seal Extension
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Client	Far North District Council
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Project No.	8726
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RC no.	
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DWG No.

CS43

Sheet No.

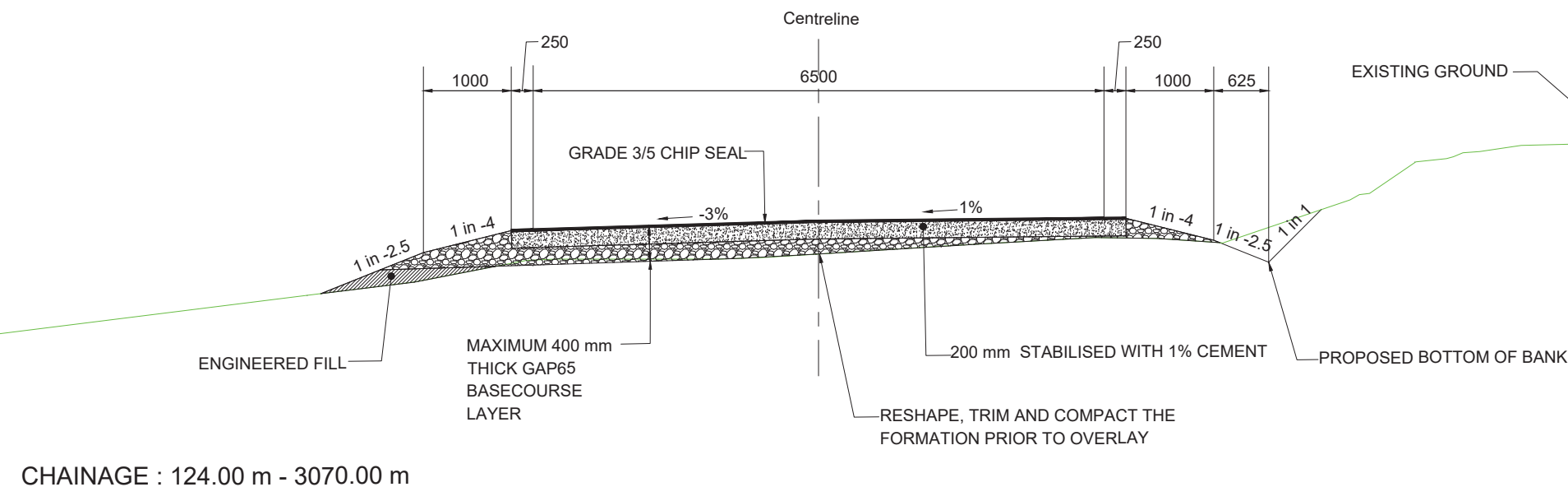
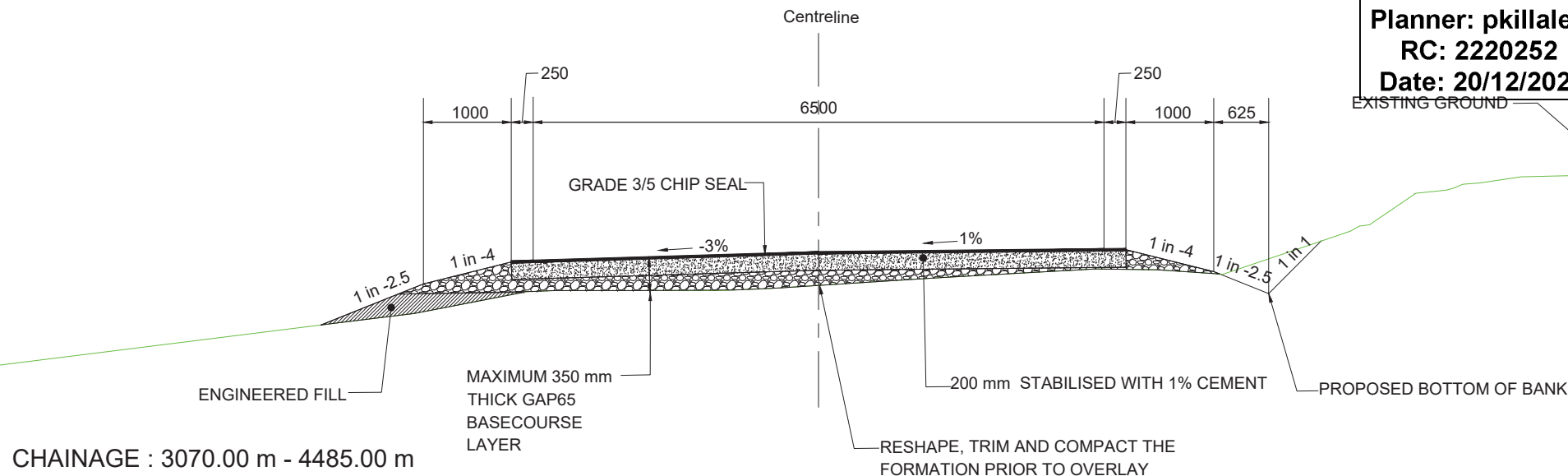
43 of 44



DWG				Ruaapekapeka Road			
Cross Section							
Scale	1: 250	@A3	##	##	0	##	##
Drawn	NS	Checked	JM	Approved	JM	Date	26/03/2021
File	P:\BUSINESS\8000-5999\870 - 879\8726 - FNC - RUAAPEKAPEKA ROAD\ENGINEERING\CONSTRUCTION\DRAWINGS\8726-2 - V10 B&M DESIGN CONSTRUCTION DRAWINGS - MAC EXTENDED\8726-2.DWG						

Project	Ruaapekapeka Road - Seal Extension		DWG No.	CS44
Client	Far North District Council		Sheet No.	
Project No.	8726	RC no.	44 of 44	

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Typical Road Cross Section
Pavement Details

Scale 1: 50 @A3



Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8726 - 8799\8726 - FND - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED\8726.DWG

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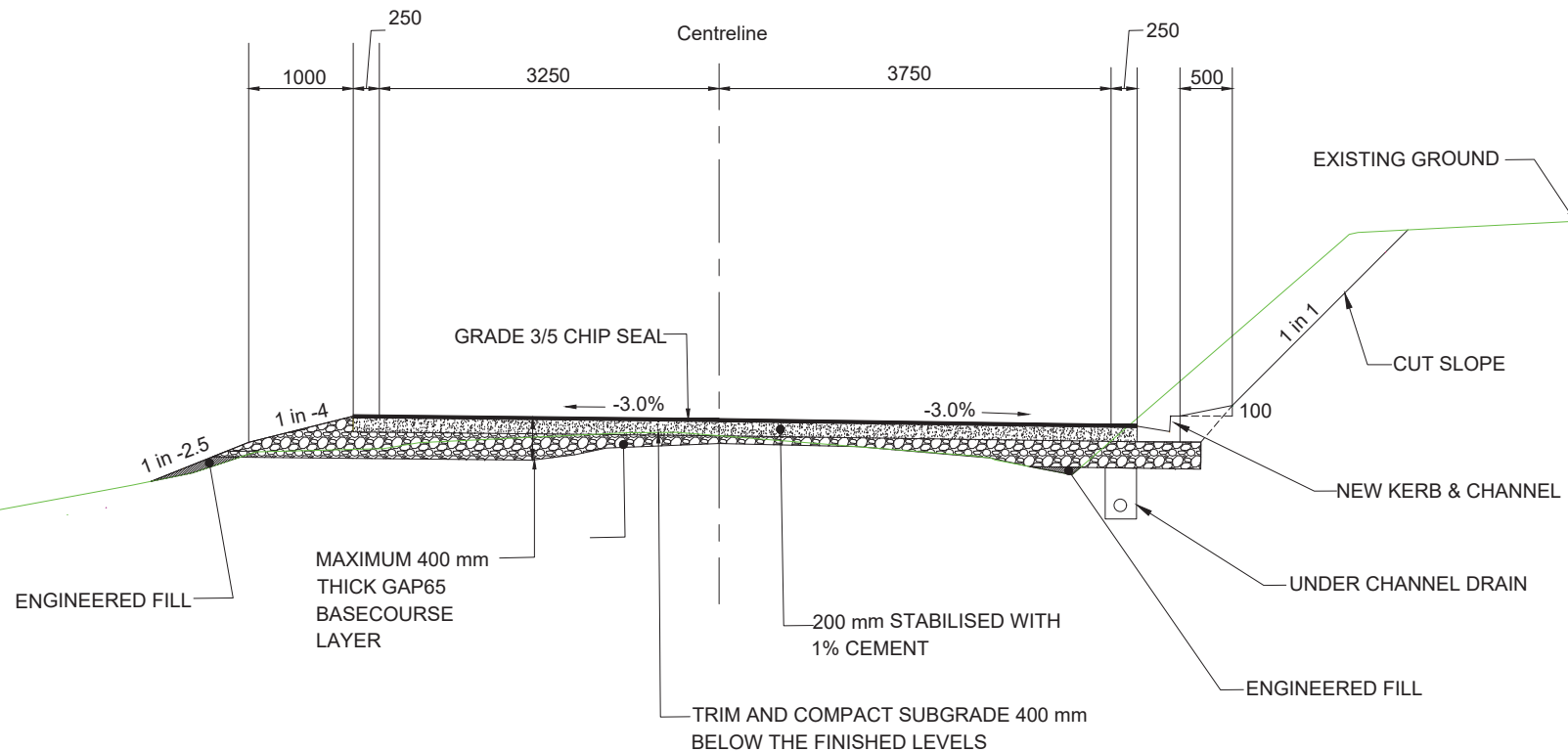
Client Far North District Council

Project No. 8726

RC no.

DWG No.
DE1

Sheet No.
1 of 9



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Typical Road Cross Section Ch: 124 - 3070 m
Kerb & Channel Detail

Scale 1: 50 @A3

Drawn	NS	Checked	JM	Approved	JM
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Project	Ruapekapeka Road - Seal Extension
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2	Client	Far North District Council
31		
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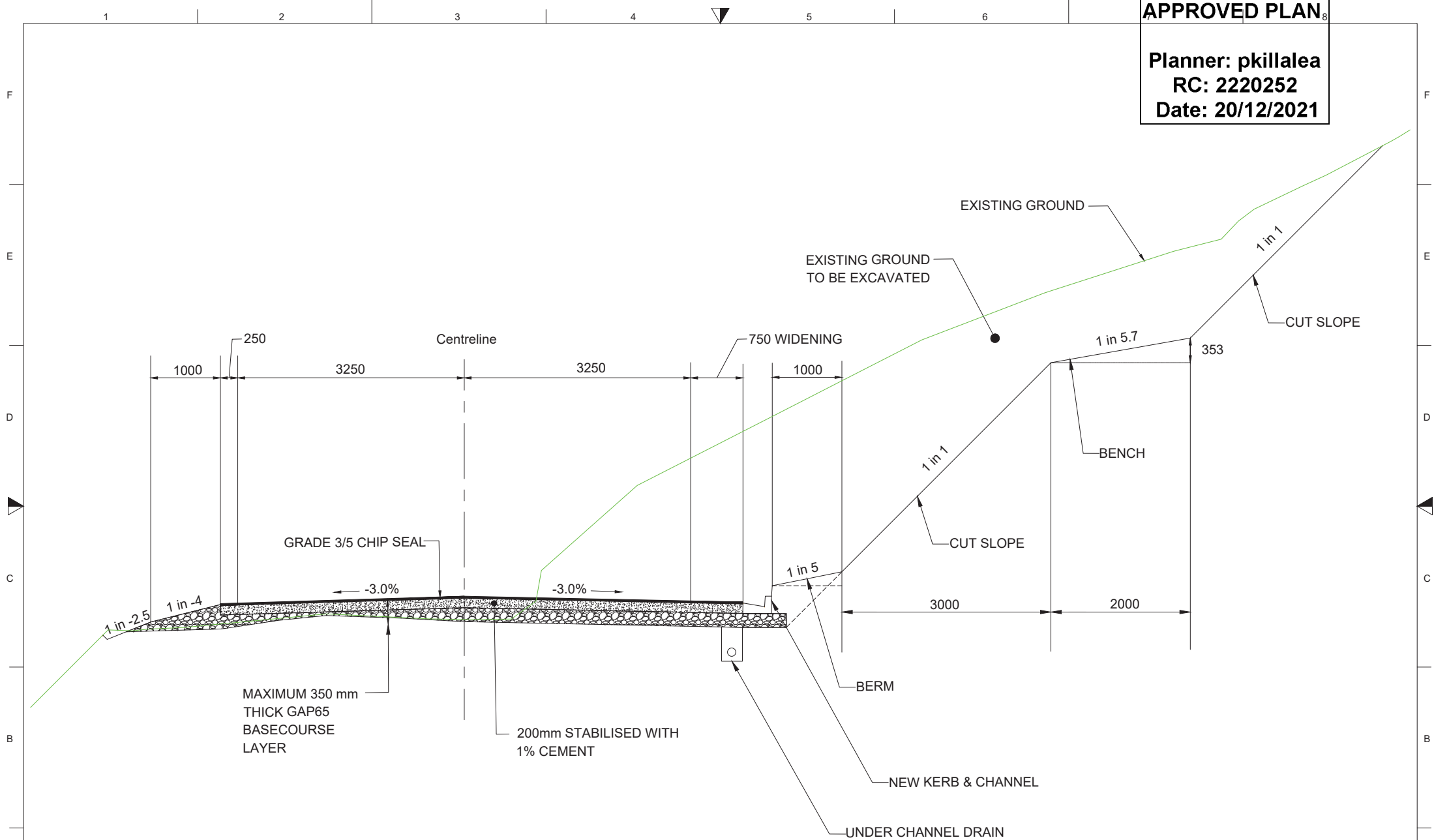
Project No.	8726
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RC no.

DWG No. **DE2**

Sheet No.
2 of **9**

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



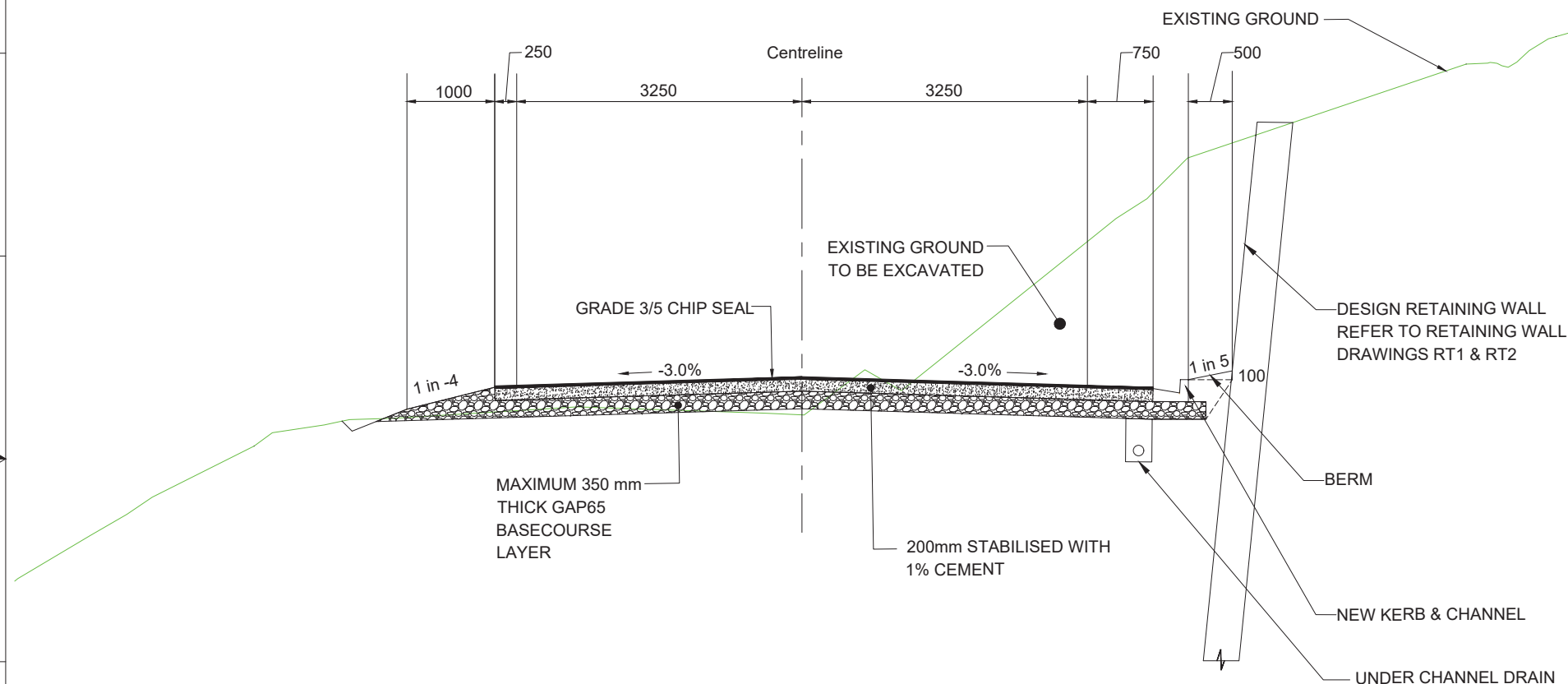
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG		Typical Road Cross Section	
		Benching Detail	
Scale	1: 50 @A3	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8726 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED\874620.DWG		

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Project	Ruapekapeka Road - Seal Extension		DWG No.	DE3
Client	Far North District Council		Sheet No.	3 of 9
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

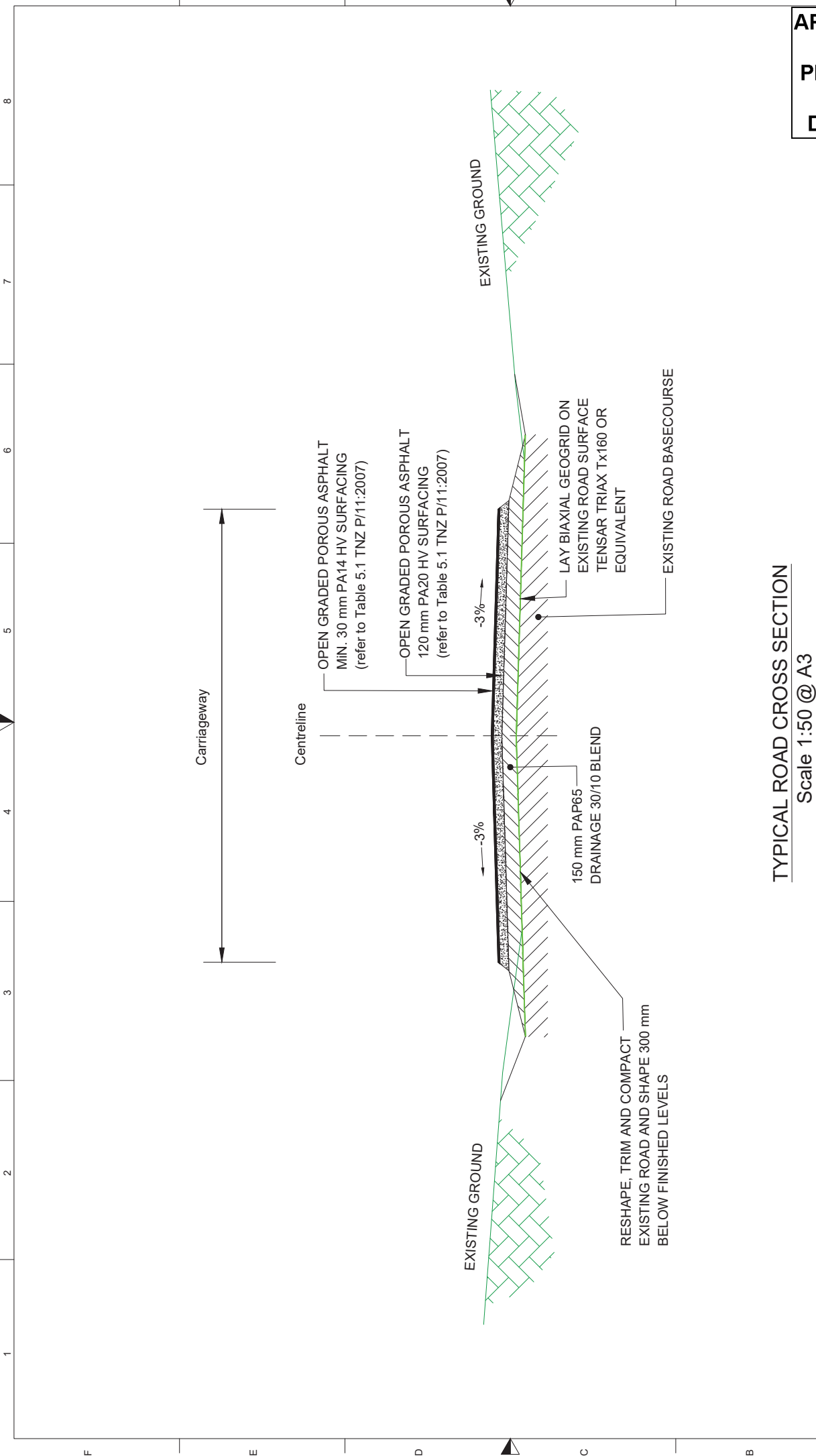


Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Typical Road Cross Section Ch: 4200 - 4485 m Retaining Wall Detail		
Scale	1: 50 @A3	Date	26/03/2021
Drawn	NS	Checked	JM
File	P:\BUSINESS\8000-8999\8720 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED\8726\8726.DWG		

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Project	Ruapekapeka Road - Seal Extension		DWG No.	DE4
Client	Far North District Council		Sheet No.	4 of 9
Project No.	8726	RC no.		



TYPICAL ROAD CROSS SECTION
Scale 1:50 @ A3

APPROVED PLAN

Planner: **pkalea**

RC: **2220252**

Date: **20/12/2021**

Sheet: **5** of **9**

A	Issue	Date	Revision		DWG	Monument Road Intersection		Project	Ruapekapeka Road - Seal Extension			
	A	26/03/2021	FIRST ISSUE			Typical Road Cross Section with Surfacing			Client			
									Far North District Council			
									Project No. 8726			
	Scale	1: 50 @A3	NS	Checked	JM	Approved	JM	Date	26/03/2021	RC no.		
	Drawn											
	File											

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0252		2/2021		E5		5 of 9	
0252		2/2021		E5		5 of 9	

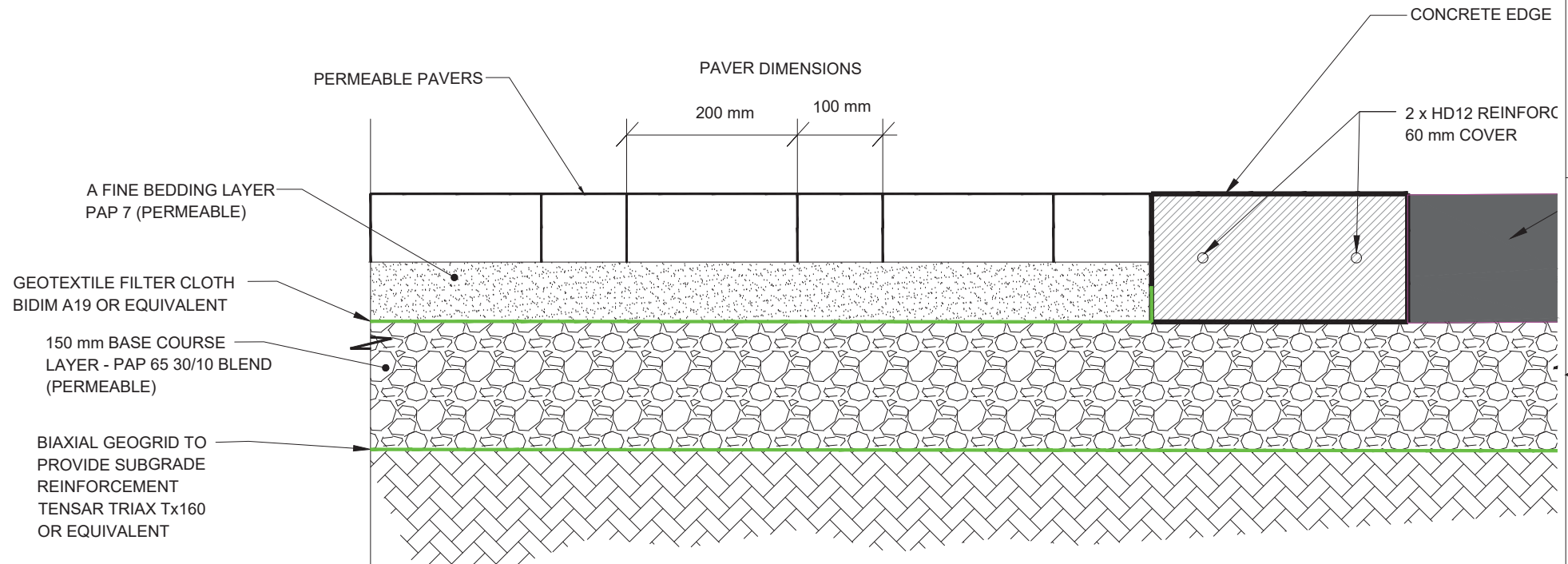
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Planner: pkillalea
RC: 2220252
Date: 20/12/2021



SCALE 1:5 @ A3

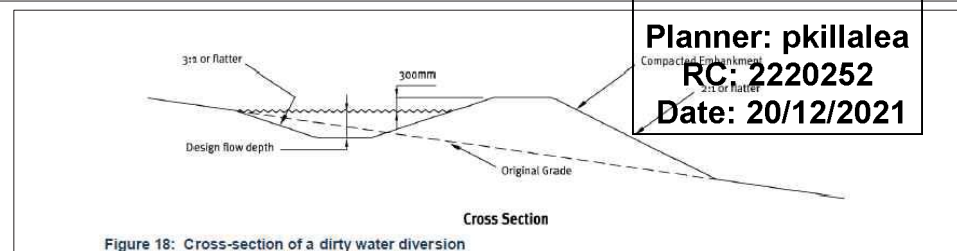
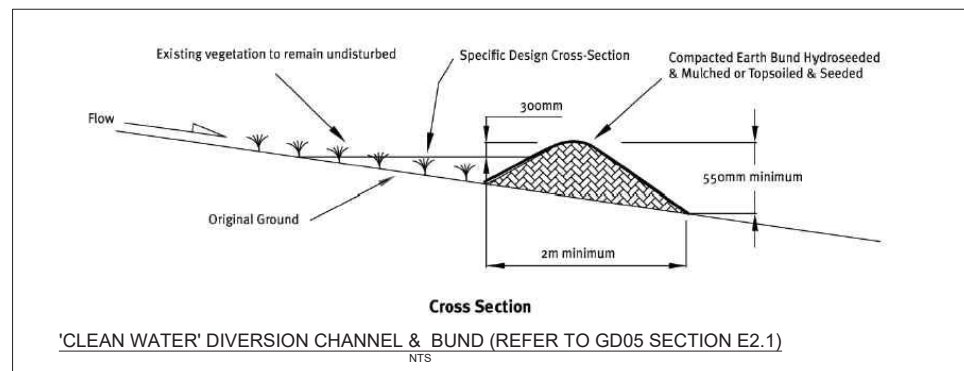
Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Monument Road Intersection Permeable pavement Cross Section			
Scale	1: 5 @A3	##	# 0 ##	Date 26/03/2021
Drawn	NS	Checked	JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED\8726\8726.DWG			

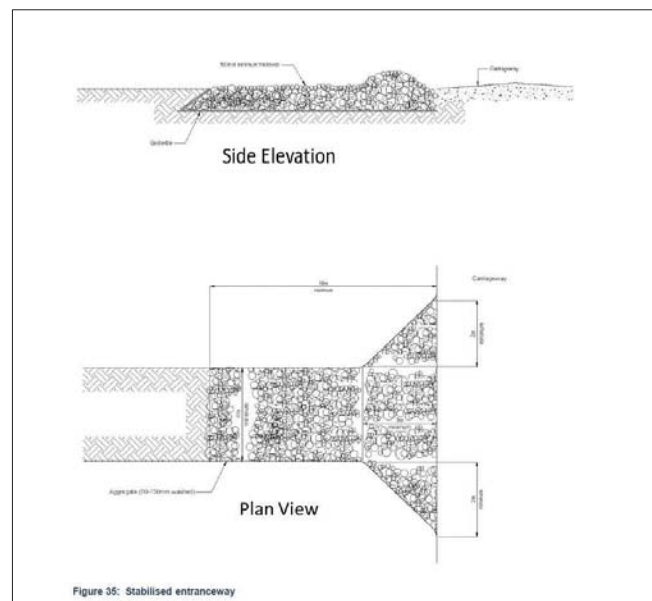
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Client	Far North District Council		Sheet No.	6 of 9
Project No.	8726	RC no.		

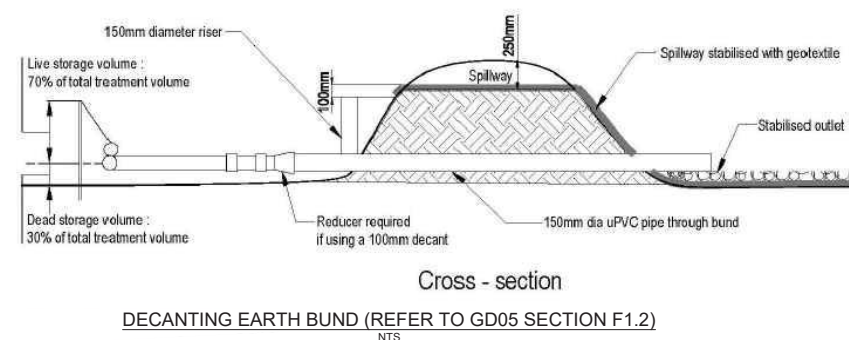
Planner: pkillalea
RC: 2220252
Date: 20/12/2021



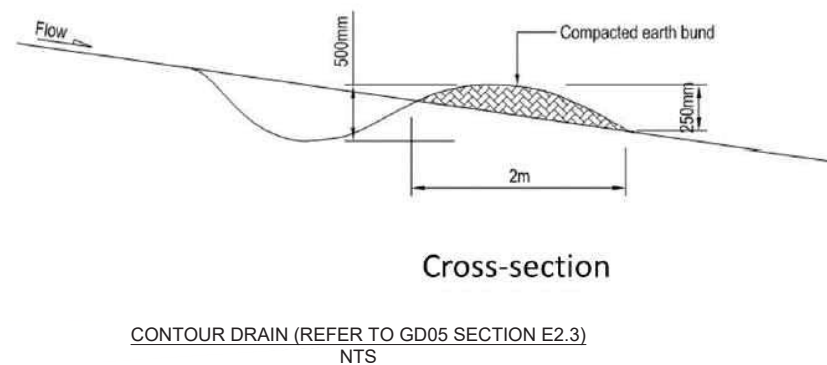
'DIRTY WATER' DIVERSION CHANNEL & BUND (REFER TO GD05 SECTION E2.2)
NTS



STABILISED CONSTRUCTION ENTRANCE (REFER TO GD05 SECTION E2.6)
NTS



DECANTING EARTH BUND (REFER TO GD05 SECTION F1.2)
NTS



CONTOUR DRAIN (REFER TO GD05 SECTION E2.3)
NTS

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG	Erosion & Sediment Control Typical Details		
Scale	N.T.S.	## # 0 ## ## ##	Date 26/03/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - K&C EXTENDED\874620.DWG		

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Project	Ruapekepeka Road - Seal Extension		DWG No. DE7
Client	Far North District Council		Sheet No. 7 of 9
Project No.	8726	RC no.	

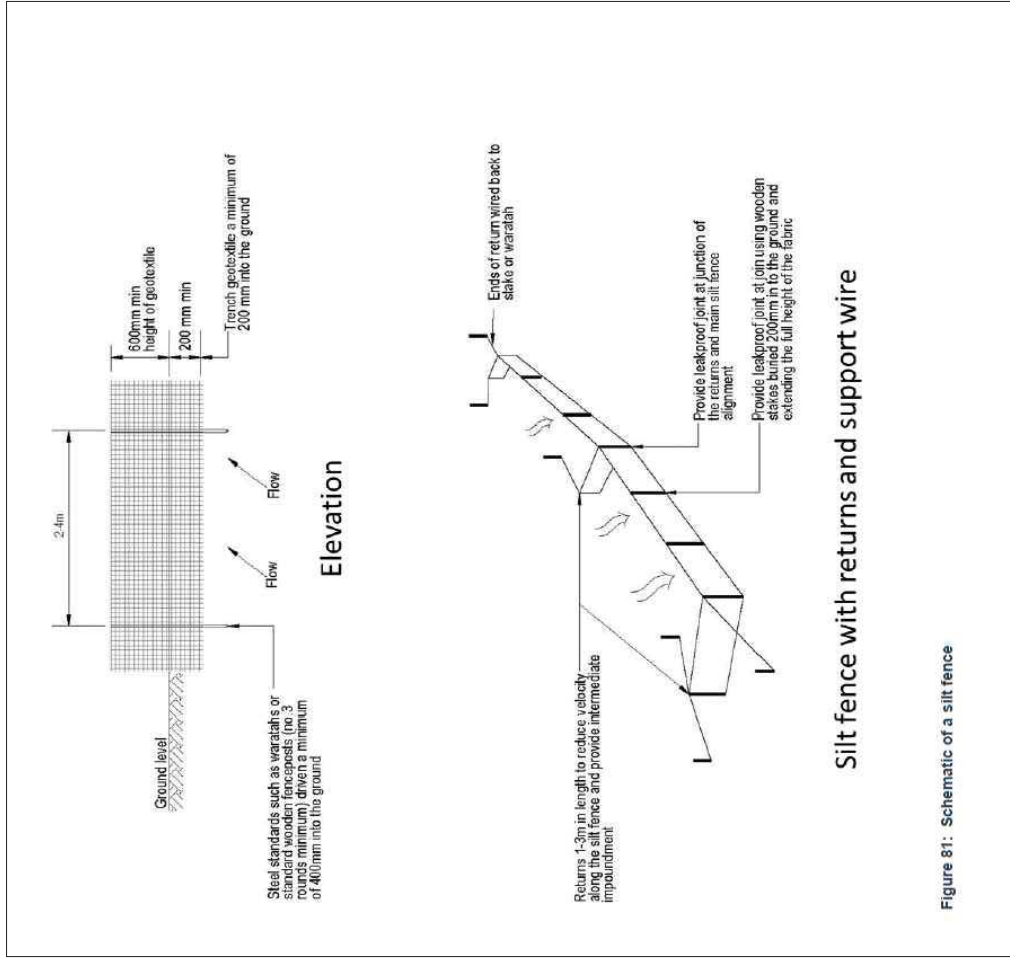


Figure 81: Schematic of a silt fence

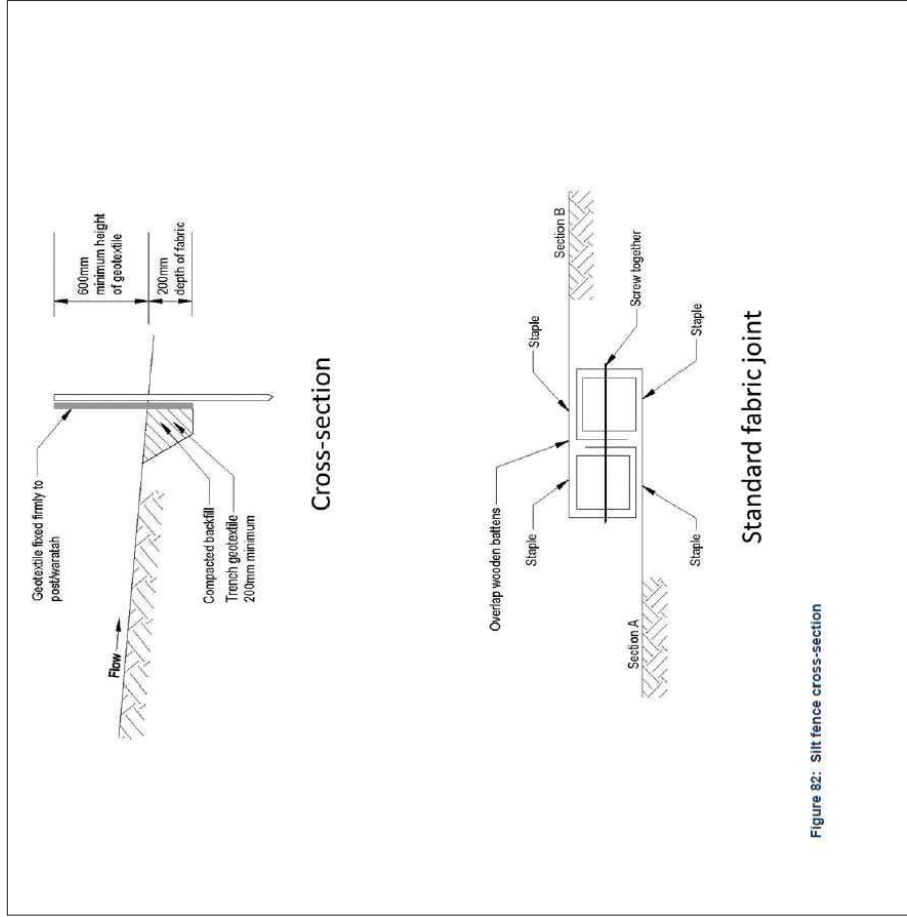


Figure 82: Silt fence cross-section

SILT FENCE (REFER TO GD05 SECTION F1.3)
NTS

SILT FENCE (REFER TO GD05 SECTION F1.3)
NTS

APPROVED PLAN
Planner: **pkalea**
RC: **2220252**
Date: **20/12/2021**

Issue	Date	Revision	DWG	Erosion & Sediment Control	Typical Details	Scale	Drawn	NS	Checked	JM	Approved	Date	File
A	26/03/2021	FIRST ISSUE				NTS						26/03/2021	

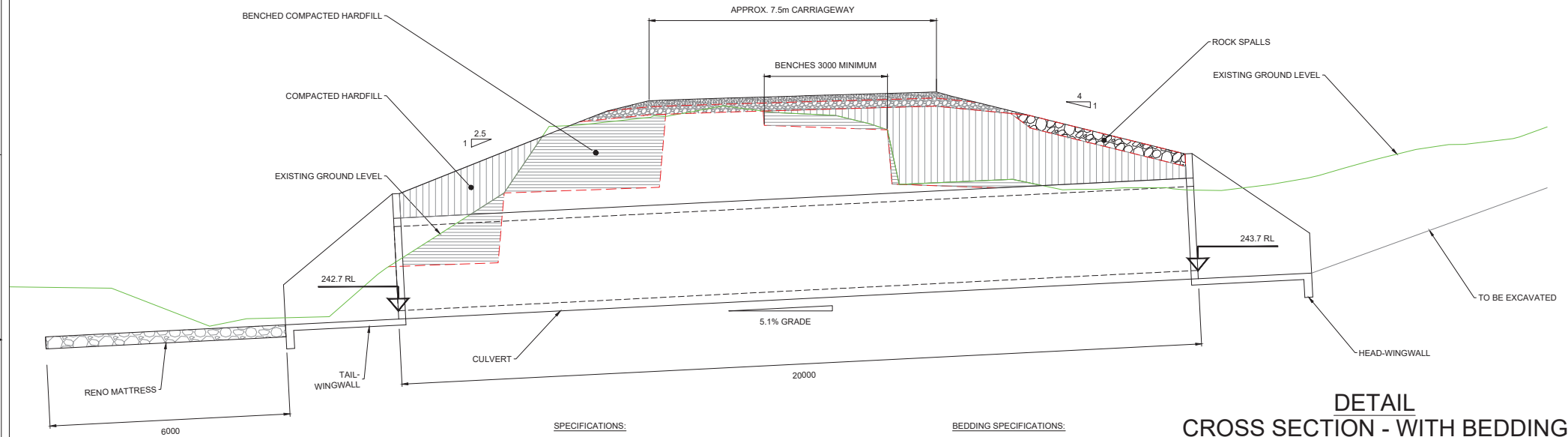
HAIGH WORKMAN Civil & Structural Engineers 3 Elizabeth Street Worktown T: 09 425 9422 F: 09 425 9431 E: info@haighworkman.co.nz	Project Ruaapekapeka Road - Seal Extension
Client Far North District Council	Project No. 8726
Project No. 8726	RC no.

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Planner: pkillalea
RC: 2220252
Date: 20/12/2021

LONG SECTION - PIPE (AND BENCHING ALONGSIDE)

SCALE 1:100 @ A3



SPECIFICATIONS:

PIPE
TO BE IN-WALL-JOINTED Ø2100 INTERNAL DIAMETER
CLASS 4
EIGHT SECTIONS X 2.5m LENGTH (20m TOTAL LENGTH)

WING-WALLS
TO BE OF
PRE-CAST SIDES, WITH
IN-SITU FLOOR AND HEADWALL BY CONTRACTOR
TO FIT Ø2100 INTERNAL DIAMETER PIPE
(HYNDS "WW2300" OR SIMILAR APPROVED)

RENO MATTRESSES
6000mm WIDE X 6000mm LONG X 300mm THICK
FILL:
DIAMETER:
MINIMUM 75mm
MAX 200mm
(NO MORE THAN 5% BY MASS BEING FINER THAN 75mm)
MATTRESS TO BE OVER GEOTEXTILE
(DURAFORCE AS410 OR SIMILAR APPROVED)

BEDDING SPECIFICATIONS:

BEDDING AND FILL TO BE COHESIONLESS
WELL-SORTED GRAVEL
WITH MINIMUM DENSITY INDEX OF 60%
MAXIMUM PARTICLE SIZES:
- BED & HAUNCH: 40MM
- SIDE: 75MM

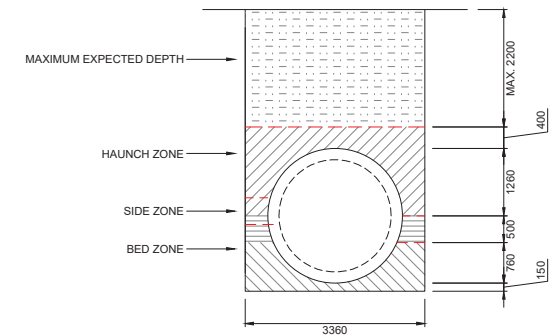
GRADING LIMITS:

BED & HAUNCH: BED & HAUNCH ZONES:
SIEVE SIZE (MM) WEIGHT PASSING (%)
19.0 100
2.36 100 - 50
0.60 90 - 20
0.30 60 - 10
0.15 25 - 0
0.075 10 - 0

SIDE ZONES:
SIEVE SIZE (MM) WEIGHT PASSING (%)
75.0 100
9.5 100 - 50
2.36 100 - 30
0.60 50 - 15
0.075 25 - 0

DETAIL CROSS SECTION - WITH BEDDING

SCALE 1:100 @ A3



Issue	Date	Revision
A	26/3/2021	FIRST ISSUE

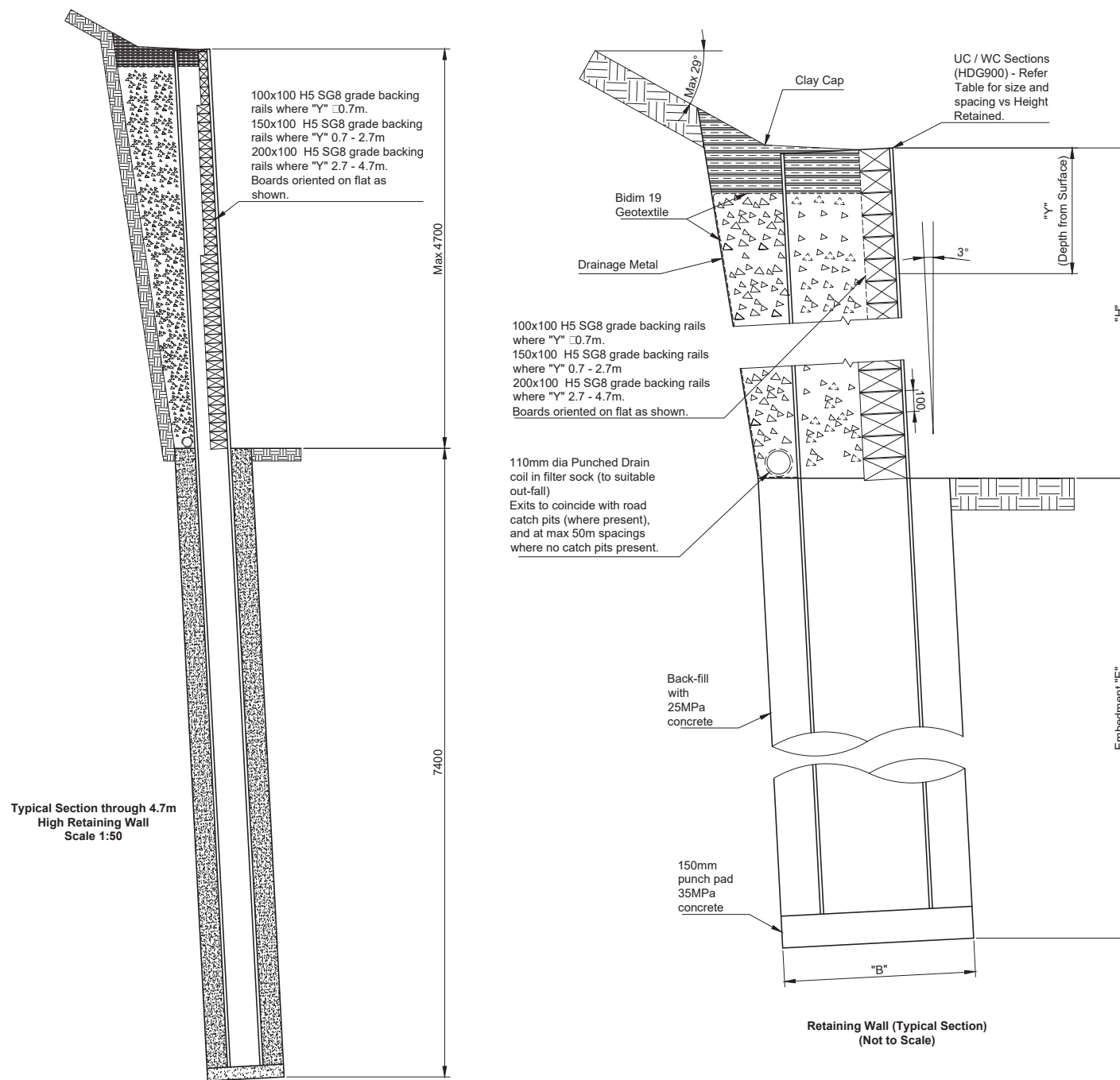
DWG	Large Culvert @ Ch 4020		
	Long Section & Bedding Detail		
Scale	1:100 @A3	Date	26/3/2021
Drawn	SGK	Checked	JM
		Approved	JM



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Project	Ruapekapeka Road - Seal Extension		DWG No.	DE9
Client	Far North District Council		Sheet No.	9 of 9
Project No.	8726	RC no.		

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Height Retained	Embedment Depth	Borehole Diameter	UC size	Spacing
"H"	"E"	"B"	"UC"	(M)
4700	7400	900	400WC303	1800
4100	6450	900	400WC212	1800
3500	5500	750	310UC158	1800
2900	4650	750	310UC97	1800
2300	3750	600	250UC73	1800
1700	2850	600	200UC46	1800
1100	1950	600	200UC46	1800

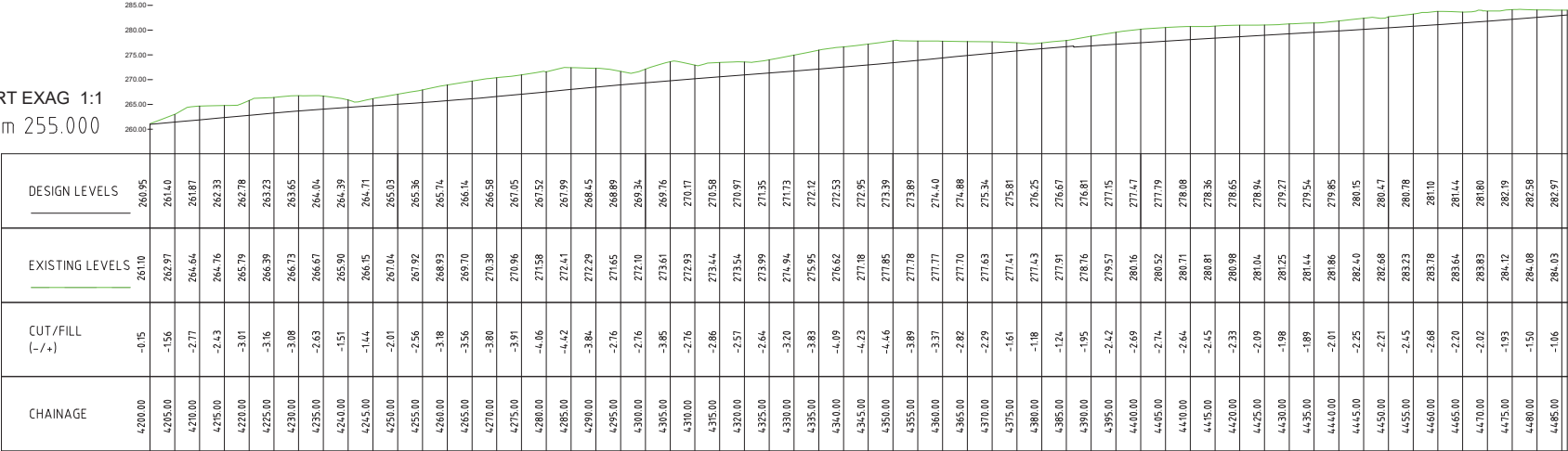
Notes and Brief Specification

- All work shall comply with the New Zealand Building Code.
- Check all dimensions on site.
- Steel UC's shall be Grade 300 plus, (WC's shall be Grade 300) and shall be adequately prepared, and heavy Hot Dip galvanised (HDG900) to AS/NZS2312.2:2014 requirements. Galvanised coating shall extend to min 1.0 metre below top of concrete. Bare steel okay where protected with a side cover of at least 100mm of 25MPa concrete.
- All unseen HD Galv steelwork above concrete shall be coated with at least 3 coats of suitable bituminous paint system (Sika Blackseal Elastic or similar), and protected against damage with suitable rigid backing sheet.
- Backing rails shall be continuous full span.
- Backing rails shall be H5 treated SG8 grade or better.
- All cut ends shall be treated with a generous coating of Metalex or similar preservative.
- Supporting ground shall have an undrained shear strength (as measured by shear vane) of at least 100kPa.
- Concrete back-fill shall be 25mPa.
- Holes shall be thoroughly cleaned and free of water before pouring concrete. Inspection required by Engineer before pouring.
- UC's and WC's shall be adequately braced and held in position during construction.

APPROVED PLAN

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

VERT EXAG 1:1
Datum 255.000



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE

DWG Retaining Wall Elevation

Scale 1:1000 @A3

Drawn NS

Checked JM

Approved JM

File

0 ## ##

Date 26/03/2021

P:\BUSINESS\8000-8999\8720 - 8719\8726 - FNC - RUAPEKEPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8720 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - KAC EXTENDED SCH4020.DWG

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Project Ruapekepeka Road - Seal Extension

Client Far North District Council

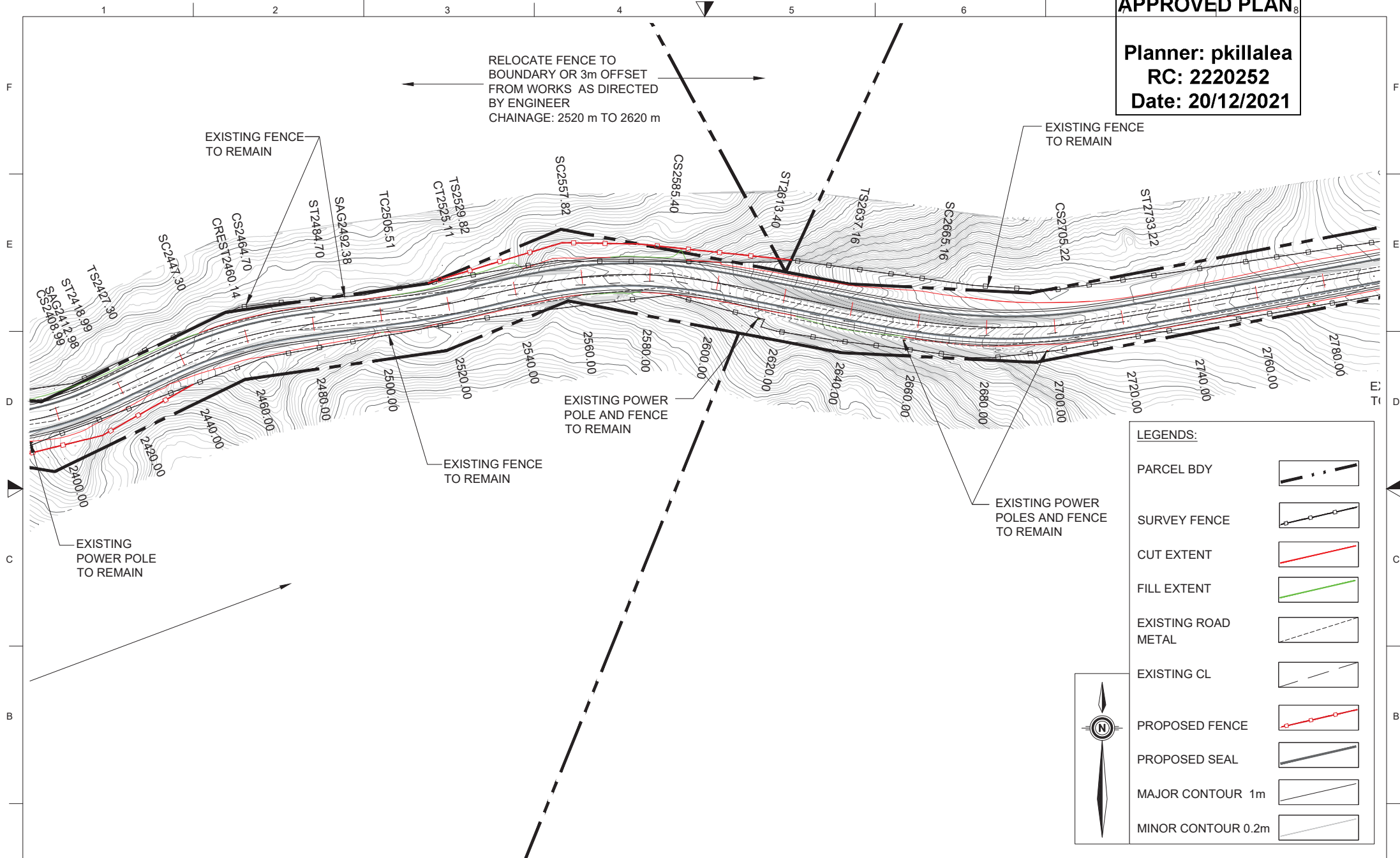
Project No. 8726

RC no.

DWG No. RT2

Sheet No. 2 of 2

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE
B	13/07/2021	ADJUST SLOPES

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3

Drawn NS Checked JM Approved JM Date 13/07/2021

File

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

RC no.

DWG No.
P11

Sheet No.
11 of 18

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

DATUM RL 206

DESIGN LEVEL	214.68	213.78	214.21	214.11	213.60	213.77
FILL(+) / CUT(-)	0.00	-0.77	0.25	0.32	-0.13	0.00
EXISTING SURFACE	214.68	214.55	214.28	213.79	213.72	213.77
OFFSET	-6.03	-5.13	0.00	3.25	4.50	5.29

CH 2600.00

DATUM RL 209

DESIGN LEVEL	220.86	217.39	217.64	217.80	217.93	217.95
FILL(+) / CUT(-)	0.00	-3.44	-3.29	-3.20	-3.24	-3.25
EXISTING SURFACE	220.86	220.83	220.63	221.09	221.13	221.30
OFFSET	-6.86	-5.12	-4.50	-3.50	-3.25	0.00

CH 2640.00

DATUM RL 213

DESIGN LEVEL	224.37	221.47	221.72	221.97	221.98	222.11
FILL(+) / CUT(-)	0.00	-0.62	-0.25	-0.97	-1.16	0.00
EXISTING SURFACE	224.37	224.09	223.97	223.79	222.74	222.11
OFFSET	-8.02	-5.13	-4.50	-3.50	-3.25	0.00

CH 2680.00

DATUM RL 204

DESIGN LEVEL	212.42	212.55	212.80	213.04	212.95	212.85
FILL(+) / CUT(-)	0.00	0.10	0.20	0.18	0.05	0.00
EXISTING SURFACE	212.42	212.45	212.60	212.87	212.89	212.85
OFFSET	-5.45	-5.13	-4.50	-3.50	-3.25	0.00

CH 2580.00

DATUM RL 207

DESIGN LEVEL	217.59	215.42	215.67	215.92	215.91	215.85
FILL(+) / CUT(-)	0.00	-1.19	-1.94	-1.71	-1.00	-0.05
EXISTING SURFACE	217.59	217.60	217.61	217.62	217.63	217.65
OFFSET	-6.21	-5.13	-4.50	-3.50	-3.25	0.00

CH 2620.00

DATUM RL 212

DESIGN LEVEL	223.20	219.50	219.75	220.00	220.10	220.18
FILL(+) / CUT(-)	0.00	-3.49	-3.16	-2.80	-0.24	0.19
EXISTING SURFACE	223.20	222.99	222.91	222.80	220.86	220.00
OFFSET	-8.82	-5.12	-4.50	-3.50	0.00	3.25

CH 2660.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE
B	13/07/2021	ADJUST SLOPES

DWG Ruapekapeka Road
Cross Section

Scale 1: 250 @A3 Date 26/03/2021

Drawn NS Checked JM Approved JM

File P:\BUSINESS\8000-8999\8726 - 87199\8726 - FNC - RUAPEKAPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - BATTERS ADJUSTED.DWG

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Project Ruapekapeka Road - Seal Extension

Client Far North District Council

Project No. 8726

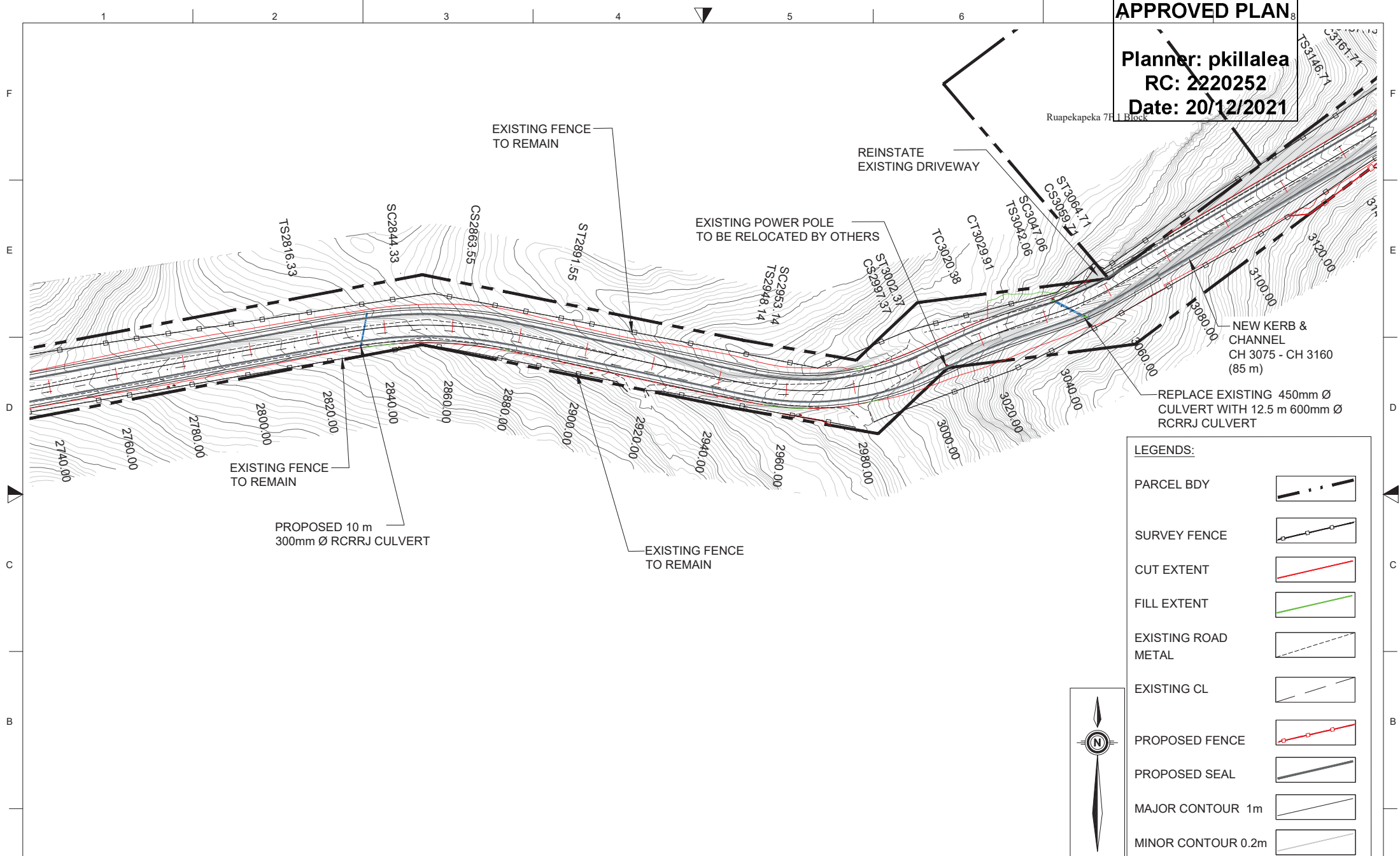
RC no.

DWG No.

CS24

Sheet No.

24 of 44



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE
B	13/07/2021	ADJUST SLOPES

DWG Ruapekapeka Road
Construction Drawings

Scale 1:1000 @A3

Drawn	NS	Checked	JM	Approved	JM
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Project	Ruapekapeka Road - Seal Extension
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Client	Far North District Council
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Project No.	8726
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RC no.

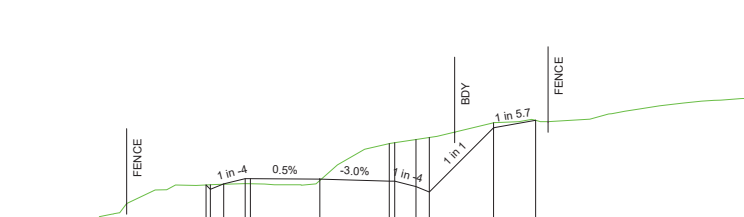
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P12

Sheet No.

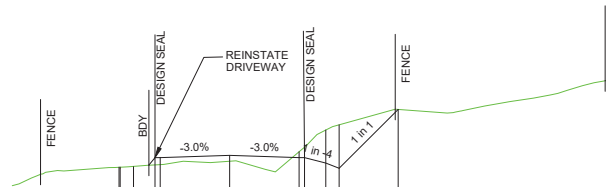
12 of 18

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



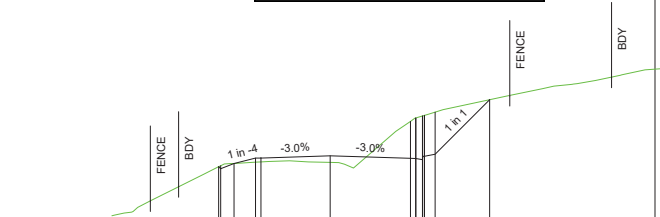
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EXISTING SURFACE	-5.12	243.25 0.00	-4.50	243.26 -0.21	243.30	243.55	245.19 -1.75	245.44	246.28
OFFSET	-5.32	243.25 0.00	-4.50	243.26 -0.21	243.30	243.55	245.19 -1.75	245.44	246.28

CH 3020.00



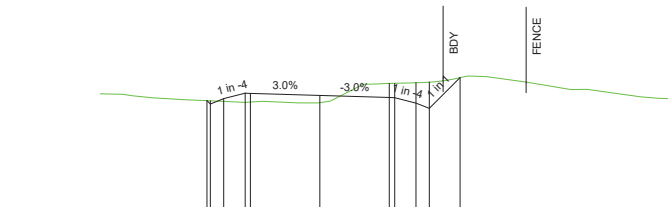
DESIGN LEVEL	246.89	246.99	246.89	246.89	246.89	246.89	246.89	246.89	246.89
FILL(+) / CUT(-)	-5.18	246.44 0.00	-5.12	246.44 -0.06	246.46 0.17	246.89	246.89	246.89	246.89
EXISTING SURFACE	-5.18	246.44 0.00	-5.12	246.44 -0.06	246.46 0.17	246.89	246.89	246.89	246.89
OFFSET	-5.18	246.44 0.00	-5.12	246.44 -0.06	246.46 0.17	246.89	246.89	246.89	246.89

CH 3060.00



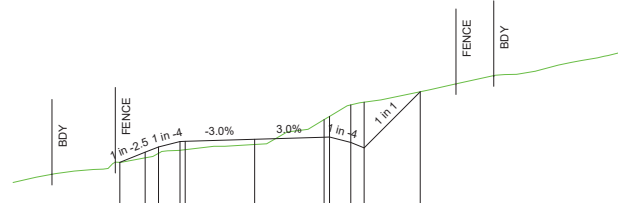
DESIGN LEVEL	250.53	250.53	250.53	250.53	250.53	250.53	250.53	250.53	250.53
FILL(+) / CUT(-)	-5.22	250.53 0.00	-5.13	250.57 -0.14	250.53	250.53	250.53	250.53	250.53
EXISTING SURFACE	-5.22	250.53 0.00	-5.13	250.57 -0.14	250.53	250.53	250.53	250.53	250.53
OFFSET	-5.22	250.53 0.00	-5.13	250.57 -0.14	250.53	250.53	250.53	250.53	250.53

CH 3100.00



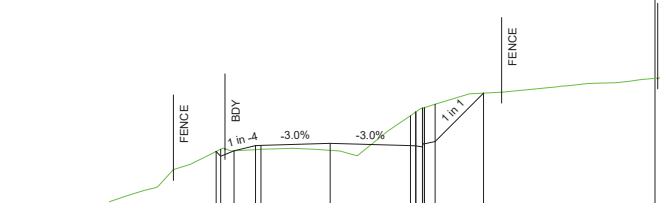
DESIGN LEVEL	241.61	241.45	241.70	241.95	241.95	241.85	241.75	241.75	242.68
FILL(+) / CUT(-)	-5.28	241.61 0.00	-5.12	241.60 -0.15	241.70	241.95	241.41 -0.86	241.75	242.68
EXISTING SURFACE	-5.28	241.61 0.00	-5.12	241.60 -0.15	241.70	241.95	241.41 -0.86	241.75	242.68
OFFSET	-5.28	241.61 0.00	-5.12	241.60 -0.15	241.70	241.95	241.41 -0.86	241.75	242.68

CH 3000.00



DESIGN LEVEL	244.11	244.11	244.11	244.11	244.11	244.11	244.11	244.11	244.11
FILL(+) / CUT(-)	-5.12	244.31 0.27	-4.50	244.33 0.30	244.83	244.83	244.83	244.83	244.83
EXISTING SURFACE	-5.12	244.31 0.27	-4.50	244.33 0.30	244.83	244.83	244.83	244.83	244.83
OFFSET	-5.12	244.31 0.27	-4.50	244.33 0.30	244.83	244.83	244.83	244.83	244.83

CH 3040.00



DESIGN LEVEL	248.61	248.61	248.61	248.61	248.61	248.61	248.61	248.61	248.61
FILL(+) / CUT(-)	-5.34	248.61 0.00	-5.13	248.72 -0.32	248.61	248.61	248.61	248.61	248.61
EXISTING SURFACE	-5.34	248.61 0.00	-5.13	248.72 -0.32	248.61	248.61	248.61	248.61	248.61
OFFSET	-5.34	248.61 0.00	-5.13	248.72 -0.32	248.61	248.61	248.61	248.61	248.61

CH 3080.00

Issue	Date	Revision
A	26/03/2021	FIRST ISSUE
B	13/07/2021	ADJUST SLOPES

DWG	Ruaapekepeka Road Cross Section
Scale	1: 250 @A3
Drawn	NS
File	P:\BUSINESS\8000-8999\8720 - 8719\8726 - FNC - RUAPEKEPEKA ROAD\ENGINEERING\DRAWINGS\8726 - V19 BAW DESIGN - CONSTRUCTION DRAWINGS - BATTERS ADJUSTED.DWG

HAIGH WORKMAN Civil & Structural Engineers
3 Elizabeth Street Warkworth
T: 09 425 9422 F: 09 425 9431 E: info@haighworkman.co.nz

Project	Ruaapekepeka Road - Seal Extension
Client	Far North District Council
Project No.	8726
RC no.	
DWG No.	CS28
Sheet No.	28 of 44

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



RELOCATE FENCE TO
BOUNDARY OR 3m OFFSET
FROM WORKS AS DIRECTED
BY ENGINEER
CHAINAGE: 3230 m TO 3390 m

INSTALL NEW 10 m
450mm Ø RCRRJ
CULVERT

EXISTING FENCE
TO REMAIN

NEW KERB & CHANNEL
CH 3340 - CH 4020 (680 m)

CREST AT CH 3324 m

REGRADE WATER CHANNEL
OVER CREST (CH 3324 m)

EXISTING FENCE
TO REMAIN

REPLACE EXISTING 300mm Ø CULVERT
WITH 12.5 m 450mm Ø RCRRJ CULVERT

NEW KERB & CHANNEL
CH 3075 - CH 3160 (85 m)

RELOCATE FENCE TO
BOUNDARY OR 3m OFFSET
FROM WORKS AS DIRECTED
BY ENGINEER
CHAINAGE: 3120 m TO 3170 m

LEGENDS:

PARCEL BDY



SURVEY FENCE



CUT EXTENT



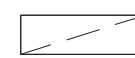
FILL EXTENT



EXISTING ROAD
METAL



EXISTING CL



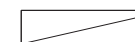
PROPOSED FENCE



PROPOSED SEAL



MAJOR CONTOUR 1m



MINOR CONTOUR 0.2m

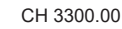


Issue	Date	Revision
A	26/03/2021	FIRST ISSUE
B	13/07/2021	ADJUST SLOPES

DWG	Ruapekapeka Road Construction Drawings		
Scale	1:1000 @A3	10 5 0 10 20 30 m	Date 13/07/2021
Drawn	NS	Checked JM	Approved JM
File	P:\BIDDING\2020\888888\01 - 87888826 - FNO2 - RUPEKAPKA ROAD\CONSTRUCTION DRAWINGS\87826 - V13 NEW DESIGN CONSTRUCTION DRAWINGS - BATTER ADJUSTED.DWG		

3 Elizabeth Street Warkworth	T: 09 425 9422 F: 09 425 9431 E: info@haighworkman.co.nz
DIMENSIONS MUST NOT BE SCALE MEASURED FROM THESE DRAWINGS. THE CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS INCLUDING, SITE LEVELS, HEIGHTS AND ANGLES ON SITE PRIOR TO COMMENCING ANY WORK. THE COPYRIGHT TO THESE DRAWINGS AND ALL PARTS THERE OF REMAIN THE PROPERTY OF HAIGH WORKMAN LTD. ©2006	

Project	Ruapekapeka Road - Seal Extension		DWG No.
Client	Far North District Council		P13
Project No.	8726	RC no.	Sheet No.
			13 of 18



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE
B	13/07/2021	ADJUST SLOPES

DWG Ruapekapeka Road
Cross Section

Scale 1: 250 @A3

Drawn	NS	Checked	JM	Approved	JM
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File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\ROAD\DRAWINGS\8726 - V19 B&W DESIGN
CONSTRUCTION DRAWINGS - BATTERS ADJUSTED.DWG



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Project	Ruaapekapeka Road - Seal Extension
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Client	Far North District Council
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Project No.	8726
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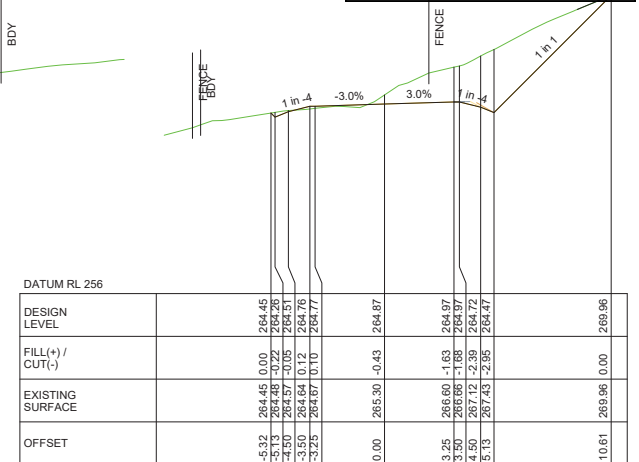
RC no.

DWG No.

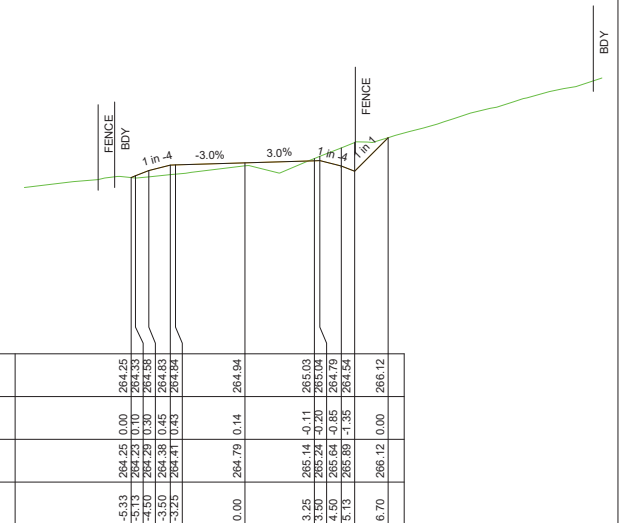
CS30

Sheet No.

30 of 44



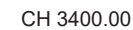
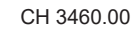
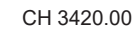
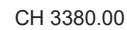
CH 3340.00



CH 3320.00

DWG No.
CS31

Sheet No.
31 of 44



Issue	Date	Revision
A	26/03/2021	FIRST ISSUE
B	13/07/2021	ADJUST SLOPES

DWG Ruapekapeka Road
Cross Section

Scale 1: 250 @A3 Date 26/03/2021

Drawn	NS	Checked	JM	Approved	JM
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File P:\BUSINESS\8000-8999\8700 - 8799\8726 - FNDC - RUAPEKAPEKA ROAD\ENGINEERING\ROADING\DRAWINGS\8726 - V19 B&W DESIGN
CONSTRUCTION DRAWINGS - BATTERS ADJUSTED.DWG



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Project	Ruapeka Road - Seal Extension
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Client	Far North District Council
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Project No.	8726
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RC no.

DWG No.

CS32

Sheet No.

32 of 44



APPROVED PLAN

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



SHEET INDEX		
SHEET NO.	SHEET TITLE	REV. NO.
GENERAL ARRANGEMENT		
C00	COVER SHEET	A
C03	PLAN AND PROFILE STN. 4180.0 - 4290.0	A
C04	PLAN AND PROFILE STN. 4390.0 - 4440.0	A
C05	PLAN AND PROFILE STN. 4440.0 - 4522.3	A
C06	LONG SECTION AT TOP-FACE OF KERB	A
C07	TYPICAL SECTION 1.25H TO 1V SLOPE	A
C08	DETAILS - MASS BLOCK WALL	A
C09	DETAILS - REDIROCK WALL	A
CROSS SECTIONS		
C11	CROSS SECTIONS STN. 4127.7 - 4150	A
C12	CROSS SECTIONS STN. 4160.0 - 4190.0	A
C13	CROSS SECTIONS STN. 4200.0 - 4230.0	A
C14	CROSS SECTIONS STN. 4240.0 - 4260.0	A
C15	CROSS SECTIONS STN. 4270.0 - 4280.0	A
C16	CROSS SECTIONS STN. 4290.0 - 4300.0	A
C17	CROSS SECTIONS STN. 4310.0 - 4320.0	A
C18	CROSS SECTIONS STN. 4330.0 - 4340.0	A
C19	CROSS SECTIONS STN. 4350.0 - 4360.0	A
C20	CROSS SECTIONS STN. 4370.0 - 4400.0	A

C21	CROSS SECTIONS STN. 4410.0 - 4420.0	A
C22	CROSS SECTIONS STN. 4430.0 - 4440.0	A
C23	CROSS SECTIONS STN. 4450.0 - 4480.0	A
C24	CROSS SECTIONS STN. 4490.0 - 4500.0	A
C25	CROSS SECTIONS STN. 4510.0 - 4522.3	A

FAR NORTH DISTRICT COUNCIL

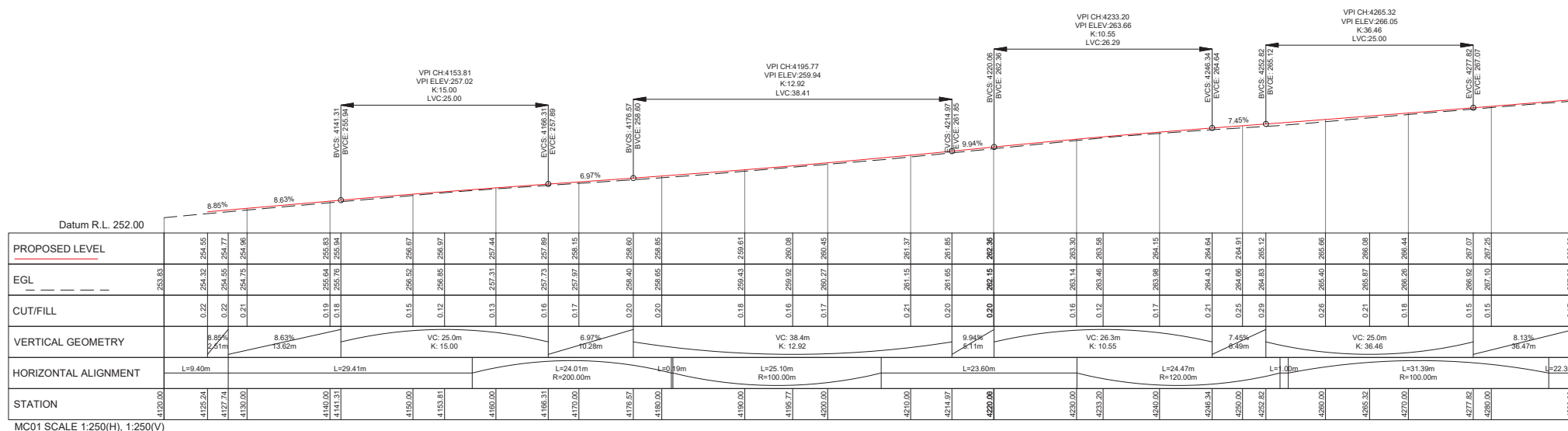
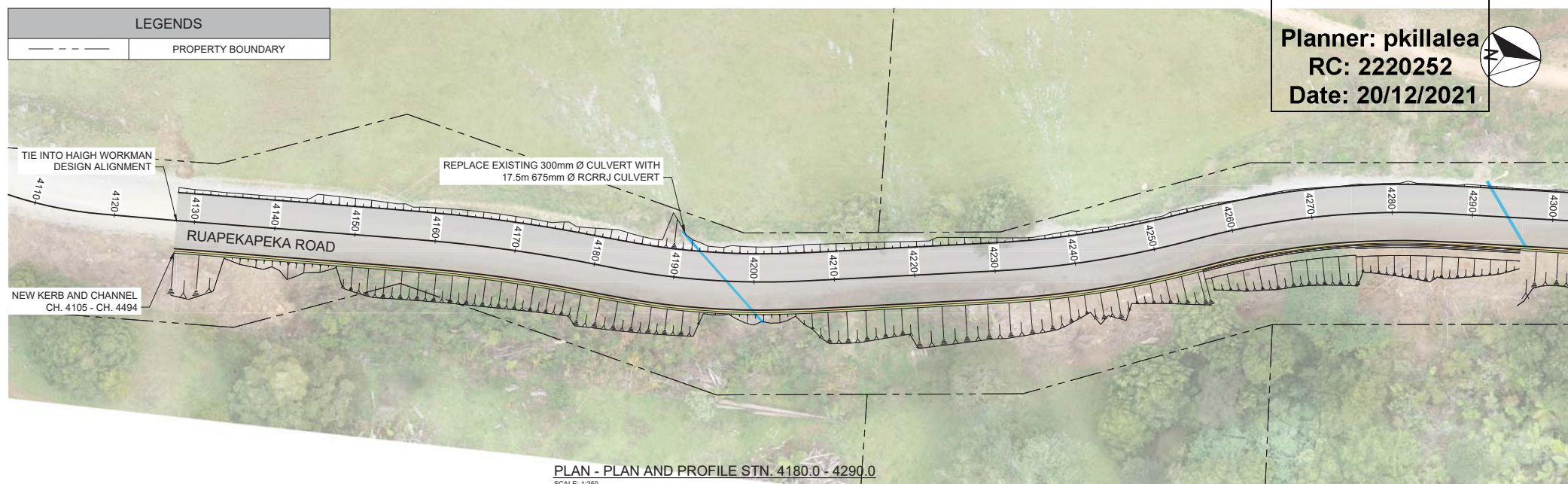
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525

RUAPEKAPEKA ROAD - SEAL EXTENSION

CIVIL
FOR TENDER

Project No: 1-14650.02
Date: JULY 2021

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



NOTE:

REFER TO NOTES ON SHEET XXX.

1:250 @ A1
1:500 @ A3

PROFILE - PLAN AND PROFILE STN. 4180.0 - 4290.0
SCALE: 1:250(H), 1:250(V)

WORK IN PROGRESS
PRINTED 6/07/2021 10:18:33 AM

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P	05-07-2021



wsp
Whangarei Office
+64 9 430 1700

Private Bag 9017
Whangarei 0148
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250(H), 1:250(V) AT A1	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

TITLE
PLAN AND PROFILE
PLAN AND PROFILE STN. 4180.0 - 4290.0

WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

SHEET NO.
C03

REVISION
A

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



LEGENDS

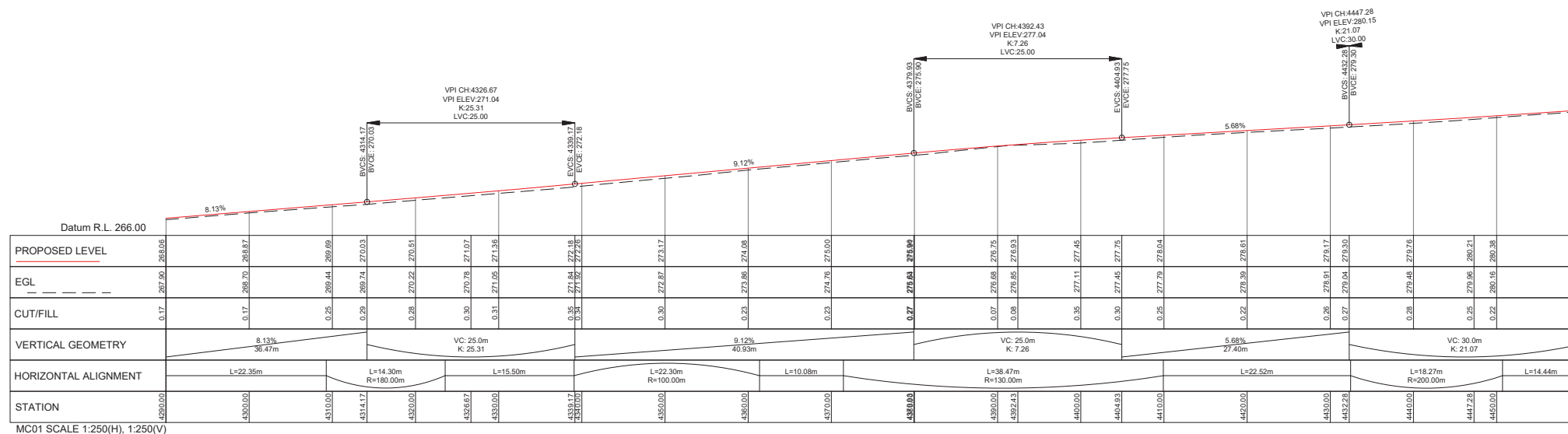
PROPERTY BOUNDARY

INSTALL NEW 10m 375mm Ø RCRRJ
CULVERT AND INSTALL DOUBLE CATCHPIT

REPLACE EXISTING 300mm Ø CULVERT WITH NEW 10m
300mm Ø RCRRJ CULVERT INSTALL DOUBLE CATCHPIT

PLAN - PLAN AND PROFILE STN. 4390.0 - 4440.0

SCALE: 1:250



NOTE:

REFER TO NOTES ON SHEET XXX.

1:250 @ A1
1:500 @ A3

PROFILE - PLAN AND PROFILE STN. 4390.0 - 4440.0

SCALE: 1:250(H), 1:250(V)

WORK IN PROGRESS
PRINTED 6/07/2021 10:18:51 AM

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P.	05-07-2021



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Private Bag 9017
Whangarei 0148
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250(H), 1:250(V) AT A1	P. KUMAR	C. PARKER
DRAWN	DESIGN VERIFIED	APPROVED DATE
P. KUMAR	S. GRIEVE	05-07-2021

FOR TENDER

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

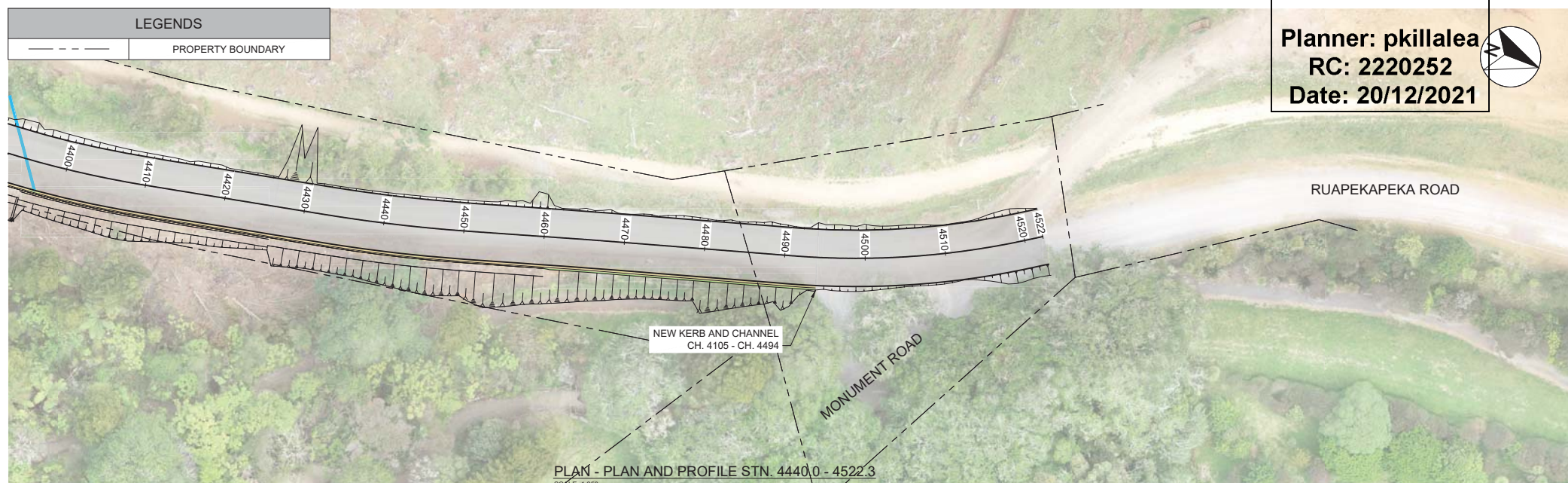
TITLE
PLAN AND PROFILE
PLAN AND PROFILE STN. 4390.0 - 4440.0

WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

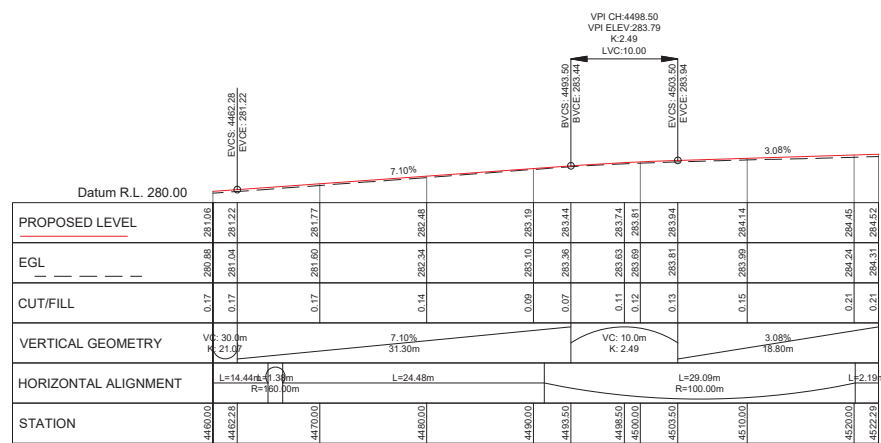
SHEET NO.
C04

REVISION
A

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



PLAN - PLAN AND PROFILE STN. 4440.0 - 4522.3
SCALE: 1:250



PROFILE - PLAN AND PROFILE STN. 4440.0 - 4522.3
SCALE: 1:250

NOTE:

REFER TO NOTES ON SHEET XXX.

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P.	05-07-2021



CIVIL

SCALES	DESIGNED	APPROVED
1:250(H), 1:250(V) AT A1	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)
FAR NORTH DISTRICT COUNCIL RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525 RUAPEKAPEKA ROAD - SEAL EXTENSION	PLAN AND PROFILE PLAN AND PROFILE STN. 4440.0 - 4522.3	1-14650.02

WORK IN PROGRESS
PRINTED 6/07/2021 10:19:12 AM

SHEET NO.	REVISION
C05	A

APPROVED PLAN

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

300 mm
200
100
50
0 10 mm
1:1000 @ A3

PROPERTY BOUNDARY
EXISTING GROUND PROFILE
TOP/FACE OF KERB
TOP OF CUT

Datum R.L. 246.00

FGL KERB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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1:500 @ A1
1:1000 @ A3

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P	05-07-2021



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SCALES
1:500 (H), 1:100 (V) AT A1

DRAWN	DESIGNED	APPROVED
P. KUMAR	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

ORIGINAL SIZE
A1

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

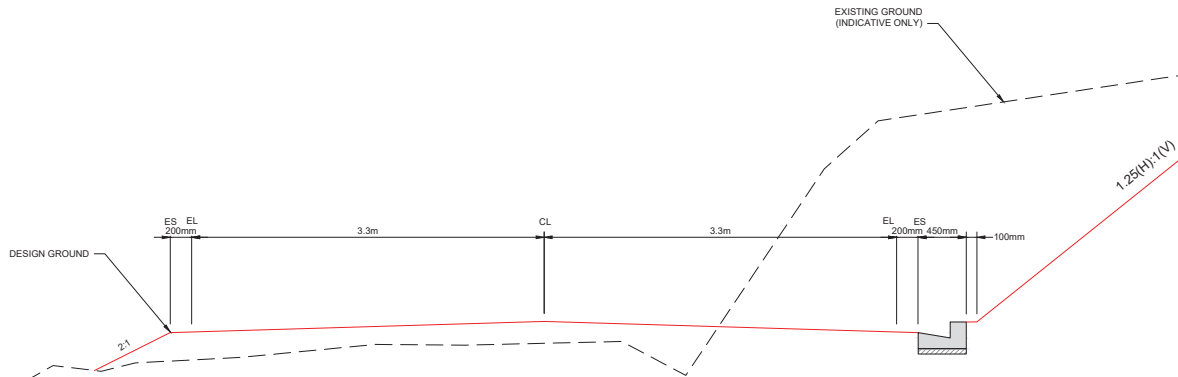
TITLE
LONG SECTION AT TOP / FACE OF KERB

WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

SHEET NO.
C06
REVISION
A

WORK IN PROGRESS
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300 mm
200
100
0 + 10 mm



TYPICAL SECTION 1.25H TO 1V SLOPE
SCALE: 1:25 (A1) 1:50 (A3)

1:25 @ A1
1:50 @ A3
0 400 800 1200 1600 2000 2400 mm

WORK IN PROGRESS
PRINTED 6/07/2021 10:19:22 AM

REVISION	AMENDMENT	APPROVED	DATE
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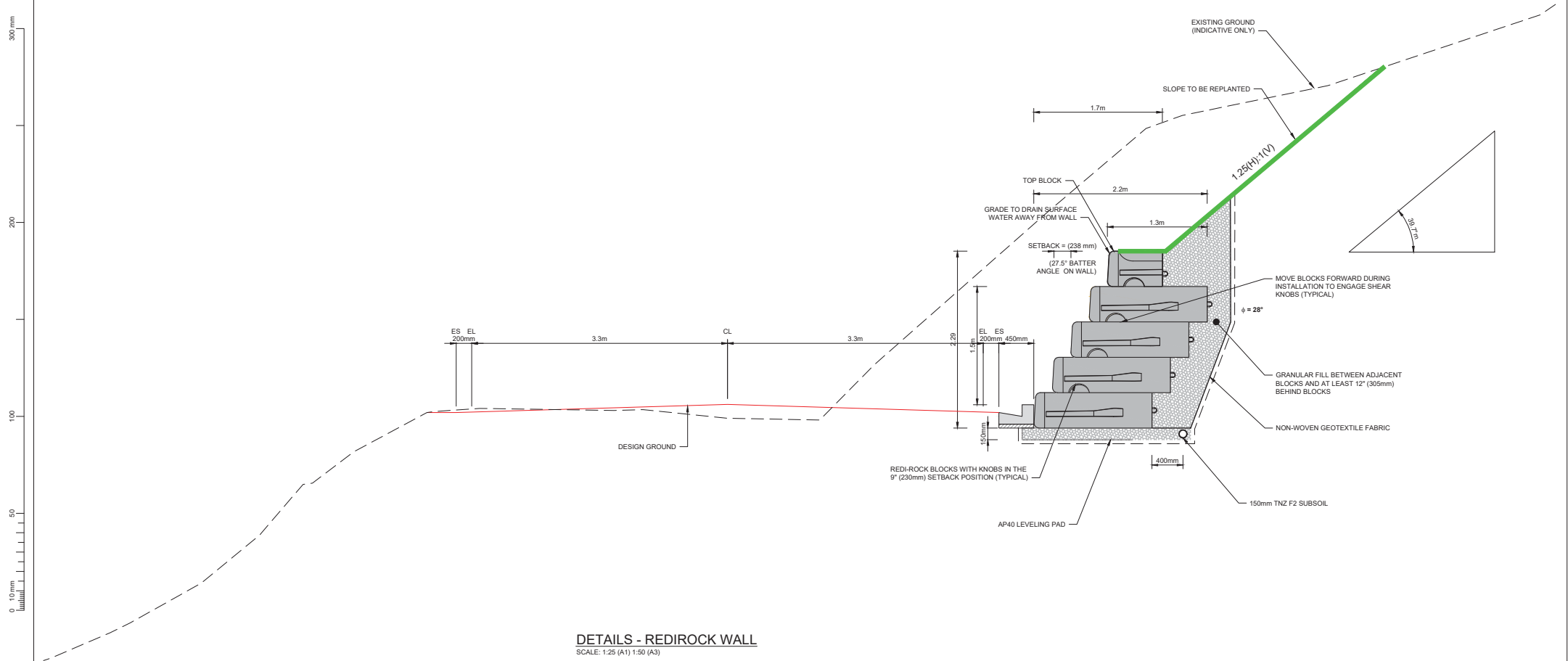
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Whangarei 0148
New Zealand

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SCALES			ORIGINAL SIZE
1:25 AT A1			A1
DRAWN	DESIGNED	APPROVED	
P. KUMAR	P. KUMAR	C. PARKER	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S. GRIEVE	S. GRIEVE	05-07-2021	
FOR TENDER			

PROJECT	FAR NORTH DISTRICT COUNCIL RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525 RUAPEKAPEKA ROAD - SEAL EXTENSION
TITLE	TYPICAL SECTIONS AND DETAILS TYPICAL SECTION 1.25H TO 1V SLOPE
WSP PROJECT NO. (SUB-PROJECT)	1-14650.02
SHEET NO.	C07
REVISION	A

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



DETAILS - REDIROCK WALL
SCALE: 1:25 (A1) 1:50 (A3)

1:25 @ A1 1:50 @ A3 0 400 800 1200 1600 2000 2400 mm

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SCALES		ORIGINAL SIZE
1:25 AT A1		A1
DRAWN	DESIGNED	APPROVED
P. KUMAR	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

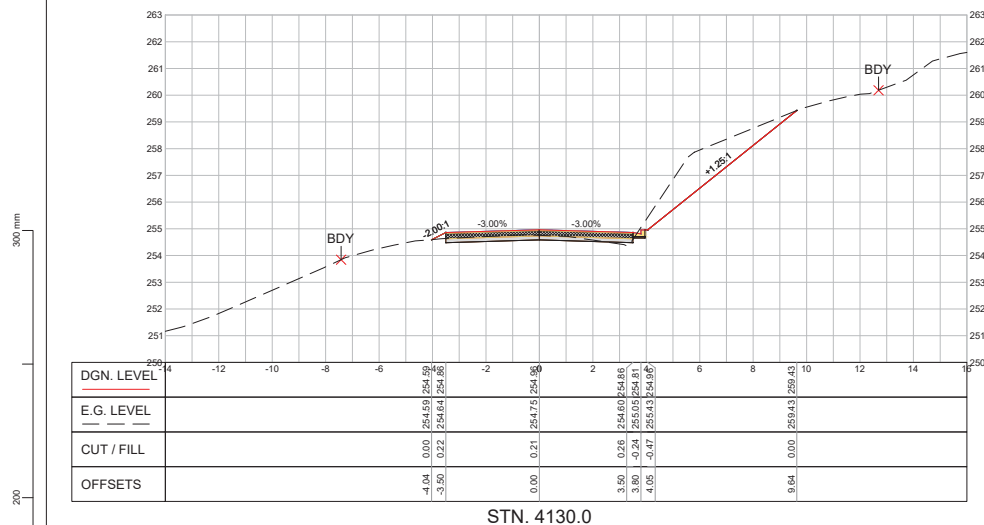
FOR TENDER

PROJECT	FAR NORTH DISTRICT COUNCIL RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525 RUAPEKAPEKA ROAD - SEAL EXTENSION
TITLE	TYPICAL SECTIONS AND DETAILS DETAILS - REDIROCK WALL
WSP PROJECT NO. (SUB-PROJECT)	1-14650.02

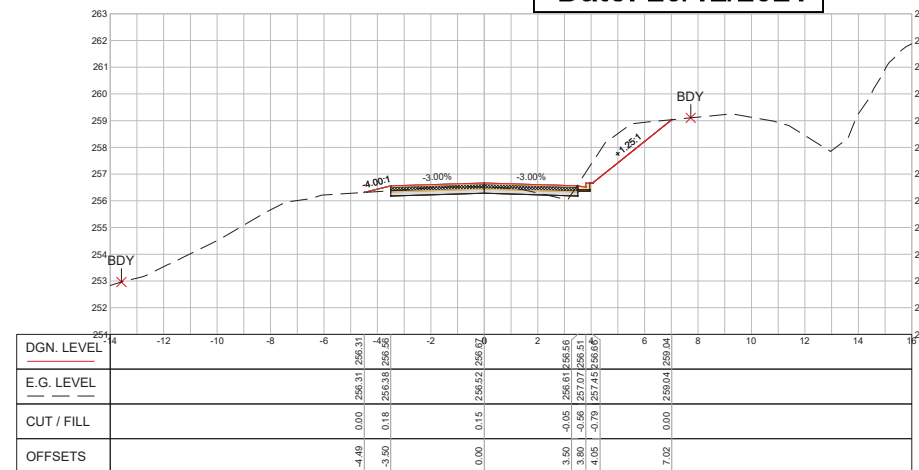
SHEET NO.	REVISION
C09	A

APPROVED PLAN

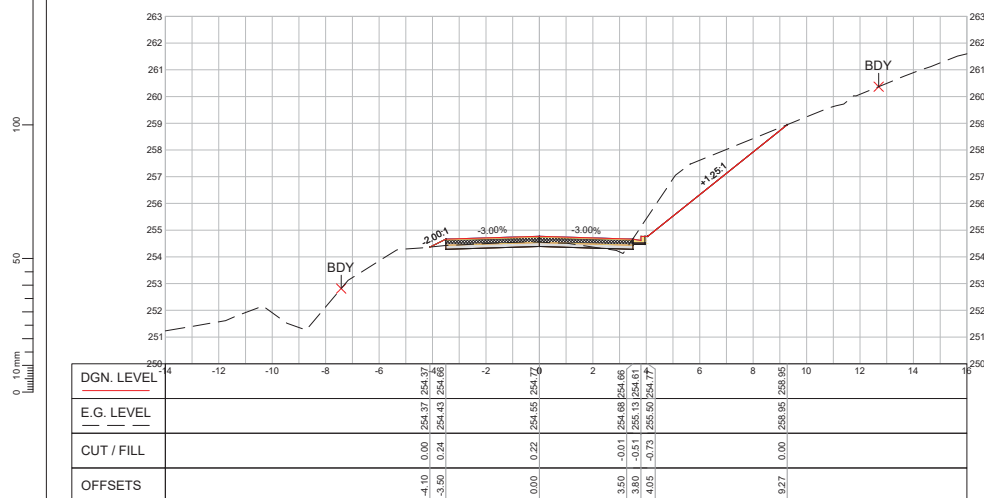
Planner: pkillalea
RC: 2220252
Date: 20/12/2021



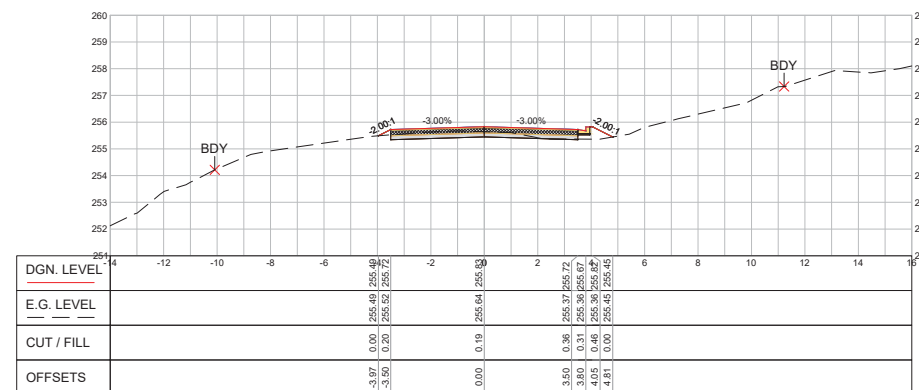
STN. 4130.0



STN. 4150.0



STN. 4127.7



STN. 4140.0

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1:100 AT A1	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

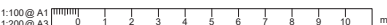
FOR TENDER

PROJECT
 FAR NORTH DISTRICT COUNCIL
 RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
 RUAPEKAPEKA ROAD - SEAL EXTENSION
 TITLE
 CROSS SECTIONS
 CROSS SECTIONS STN. 4127.7 - 4150
 WSP PROJECT NO. (SUB-PROJECT)
 1-14650.02

SHEET NO.
 C11
 REVISION
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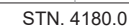
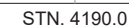
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**Far North
District Council**
Te Kaunihera o Tai Tokerau ki te Raki



FOR TENDER



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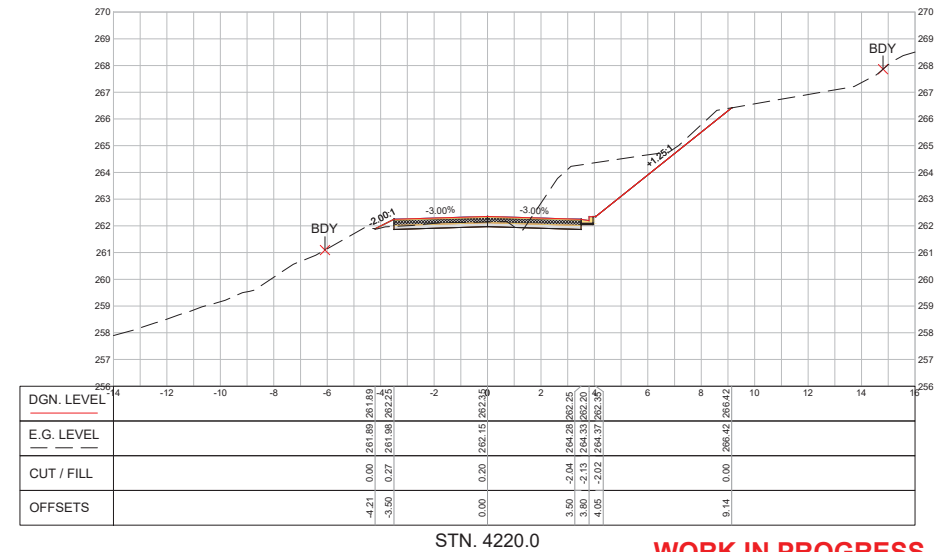
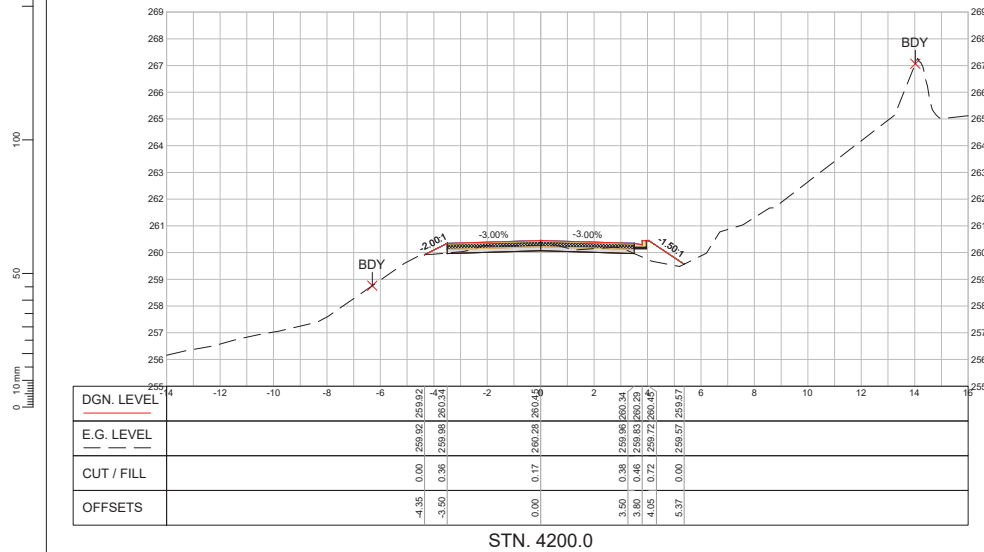
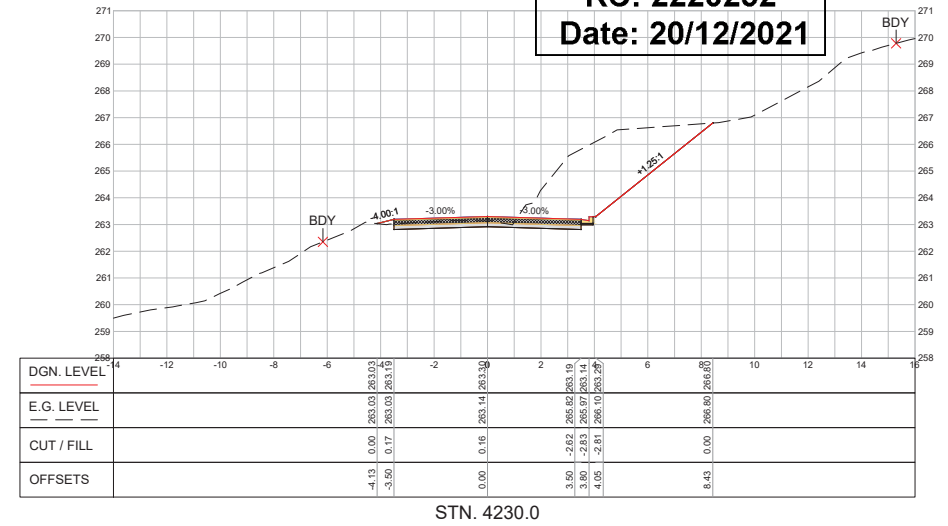
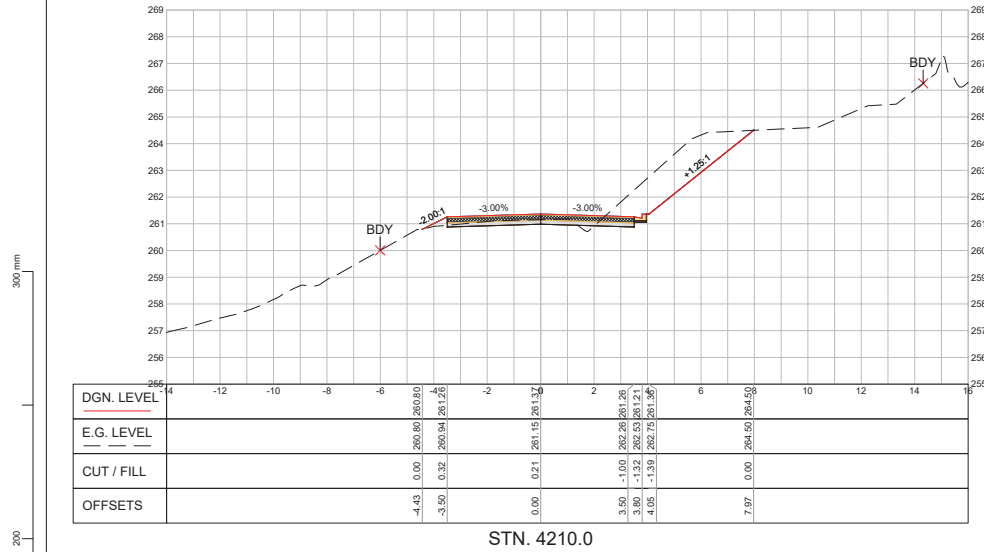
PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

TITLE
CROSS SECTIONS
CROSS SECTIONS STN. 4160.0 - 4190.0

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Planner: pkillalea
RC: 2220252
Date: 20/12/2021



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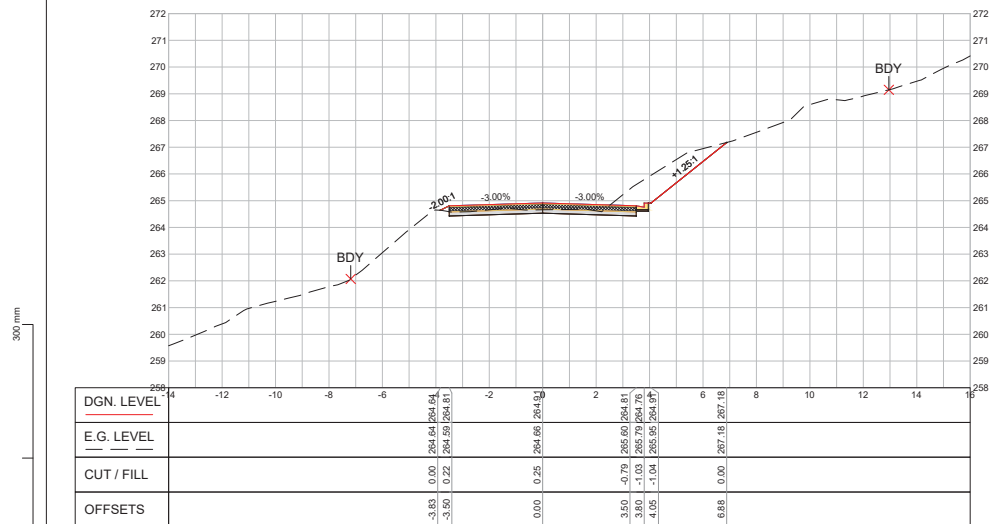
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DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
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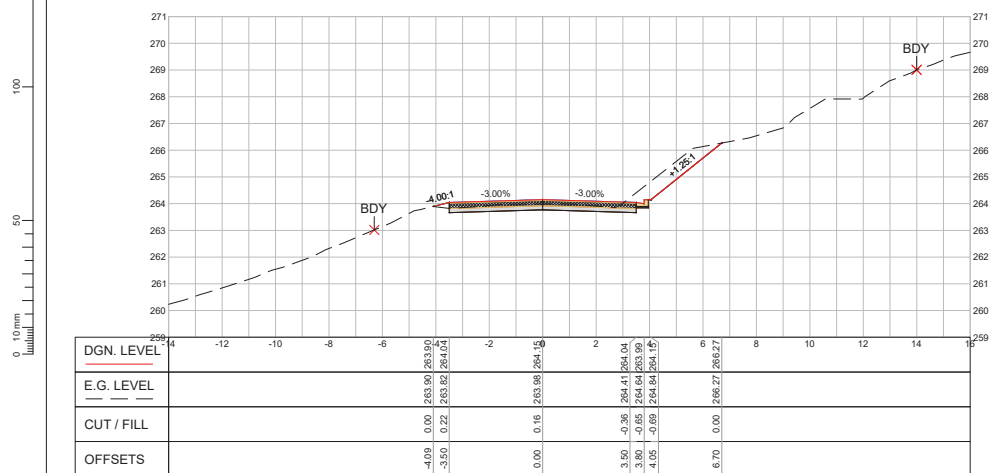
PROJECT
 FAR NORTH DISTRICT COUNCIL
 RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
 RUAPEKAPEKA ROAD - SEAL EXTENSION
 TITLE
 CROSS SECTIONS
 CROSS SECTIONS STN. 4200.0 - 4230.0
 WSP PROJECT NO. (SUB-PROJECT)
 1-14650.02

SHEET NO.
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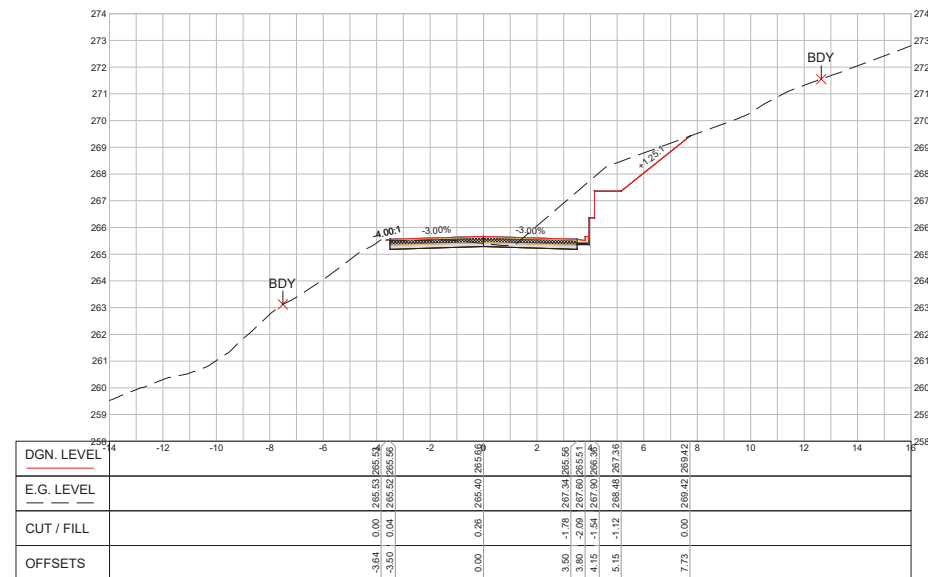
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STN. 4250.0



STN. 4240.0



STN. 4260.0

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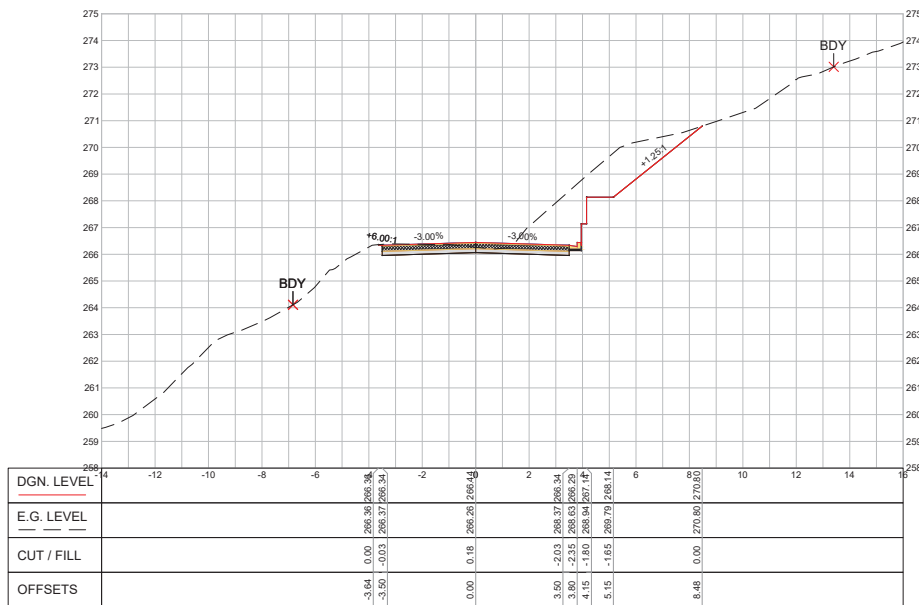
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PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)
FAR NORTH DISTRICT COUNCIL RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525 RUAPEKAPEKA ROAD - SEAL EXTENSION	CROSS SECTIONS CROSS SECTIONS STN. 4240.0 - 4260.0	1-14650.02

SHEET NO.	REVISION
C14	A

Planner: pkillalea
RC: 2220252
Date: 20/12/2021

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STN. 4270.0

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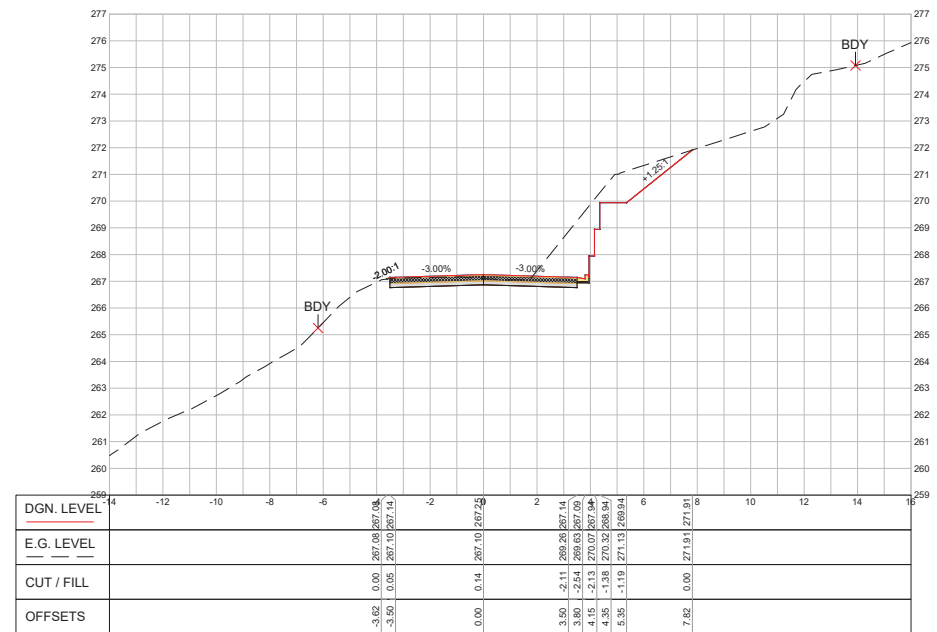
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DRAWN	P. KUMAR	APPROVED DATE
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FOR TENDER

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

TITLE
CROSS SECTIONS
CROSS SECTIONS STN. 4270.0 - 4280.0

WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

SHEET NO.
C15

REVISION
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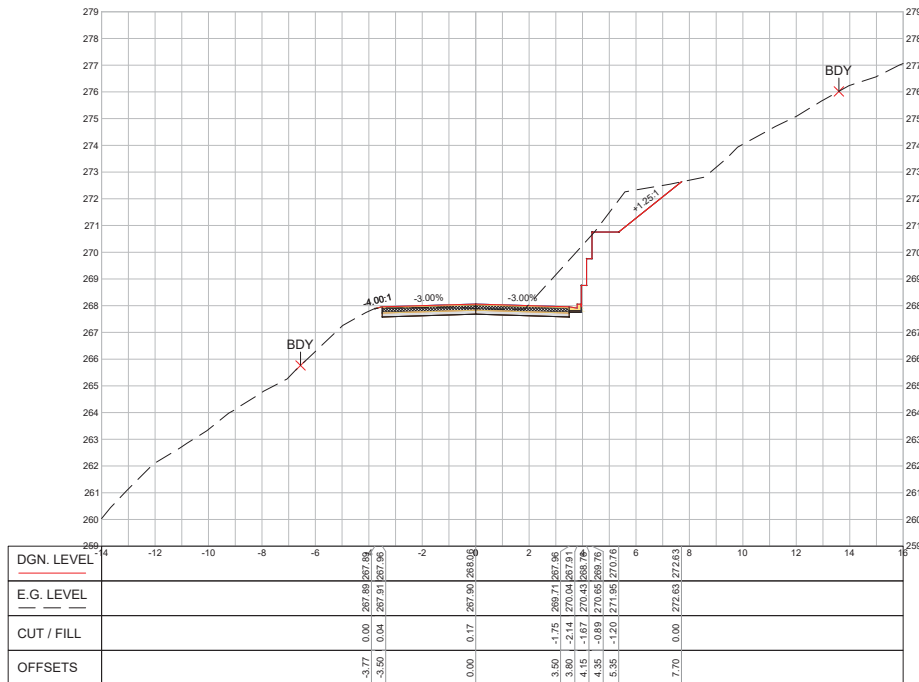
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RC: 2220252
Date: 20/12/2021

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STN. 4290.0

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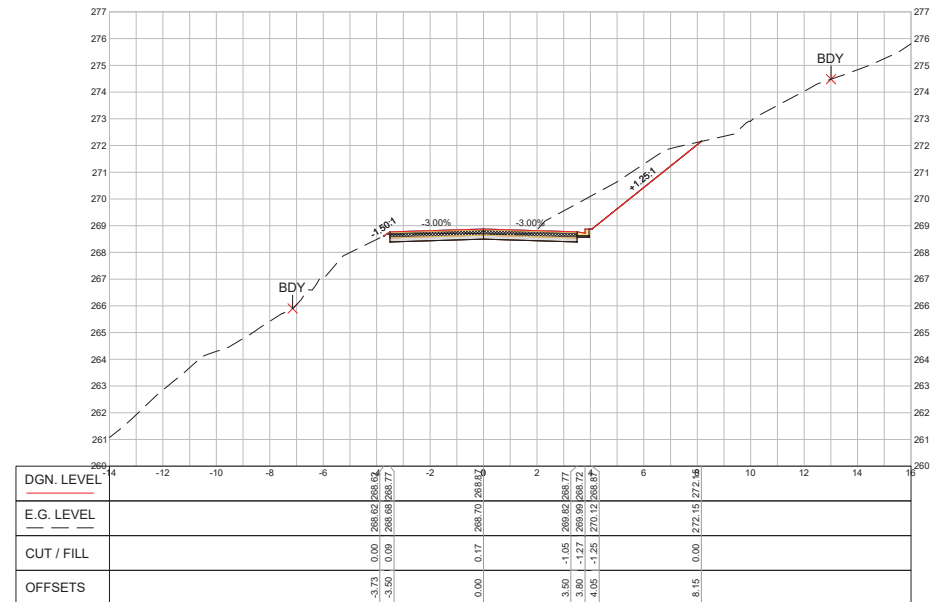
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STN. 4300.0

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PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

TITLE
CROSS SECTIONS
CROSS SECTIONS STN. 4290.0 - 4300.0

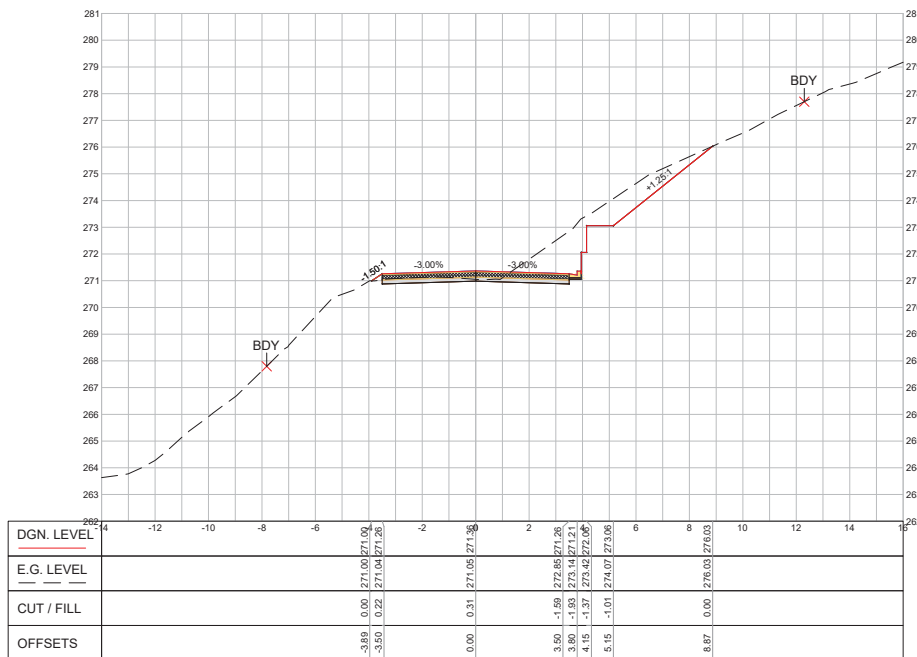
WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

SHEET NO.
C16

REVISION
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Planner: pkillalea
RC: 2220252
Date: 20/12/2021

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STN. 4330.0

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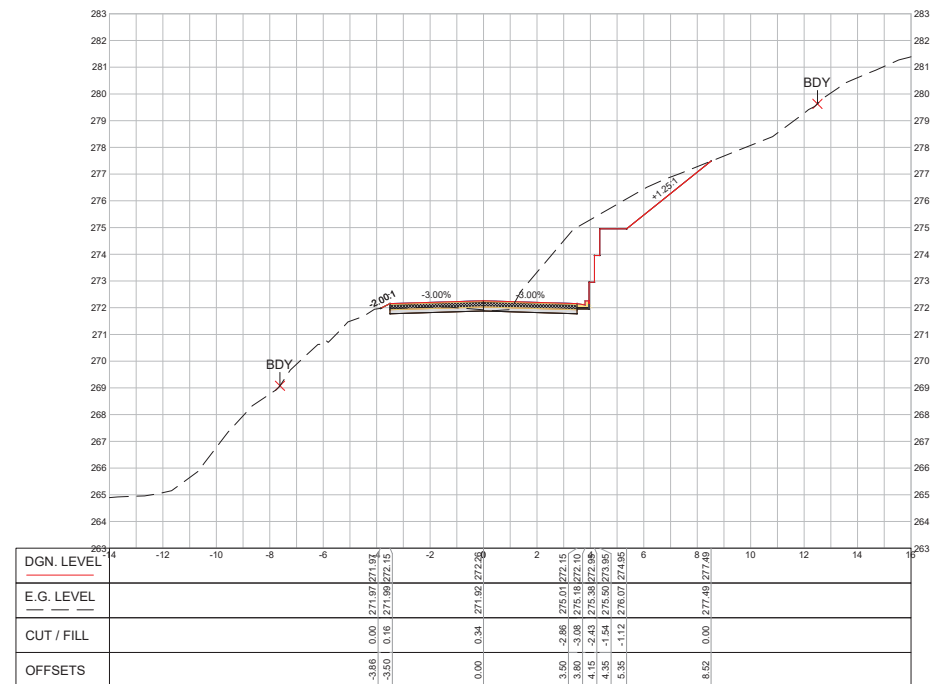
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DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

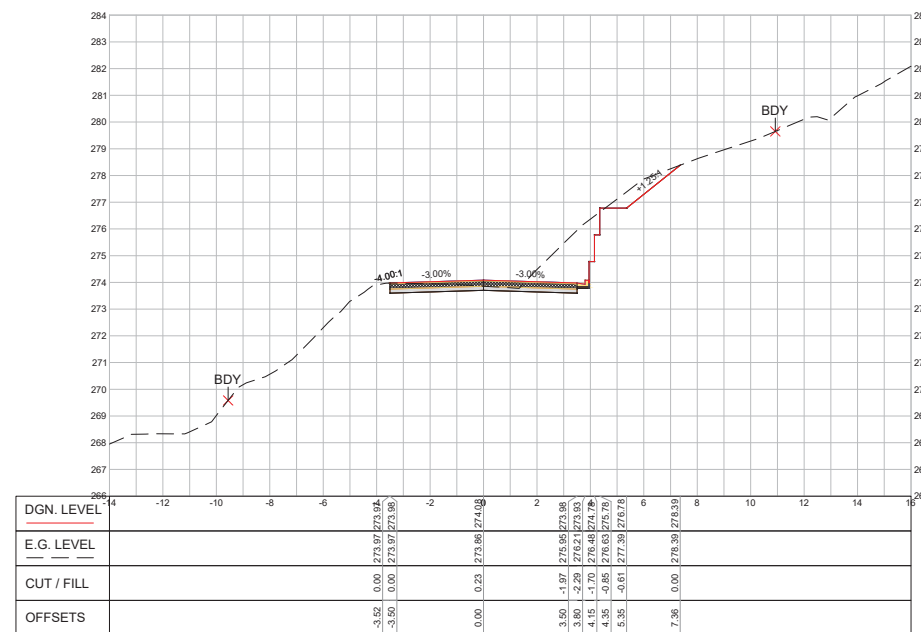
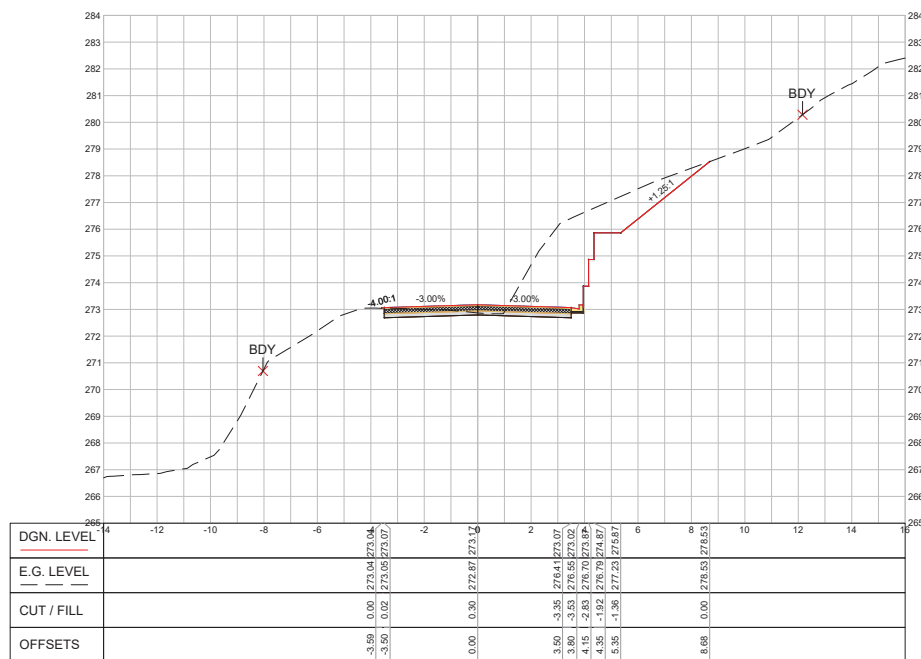
TITLE
CROSS SECTIONS
CROSS SECTIONS STN. 4330.0 - 4340.0

WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

SHEET NO.
C18

REVISION
A

Planner: pkillalea
RC: 2220252
Date: 20/12/2021



WORK IN PROGRESS

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Private Bag 901
Whangarei 0148
New Zealand

CIVIL

SCALES 1:100 AT A1		ORIGINAL SCALE A1
DRAWN P. KUMAR	DESIGNED P. KUMAR	APPROVED C. PARKER
DRAWING VERIFIED S. GRIEVE	DESIGN VERIFIED S. GRIEVE	APPROVED DATE 05-07-2021

FOR TENDER

ORIGINAL SIZE
A1

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

CROSS SECTIONS
CROSS SECTIONS STN. 4350.0 - 4360.0

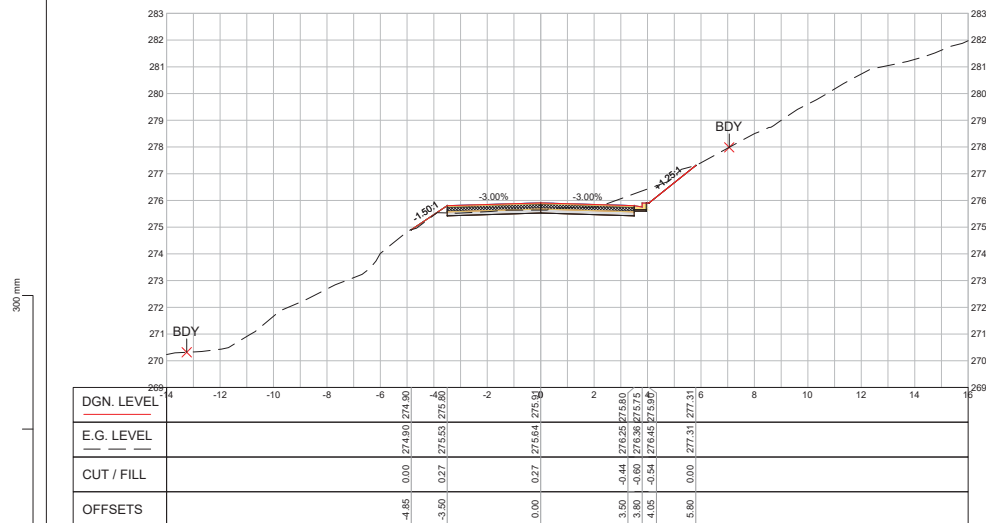
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1-14650.02

SHEET NO.
C19

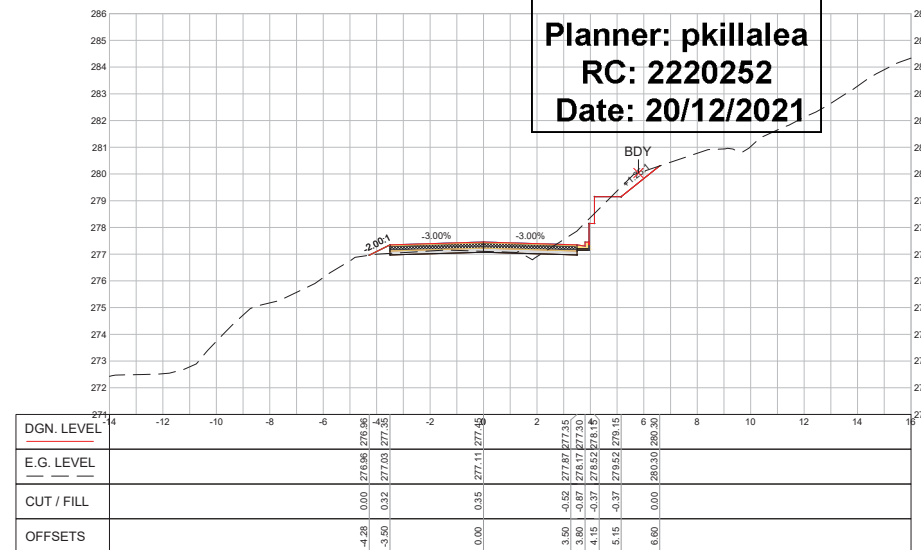
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APPROVED PLAN

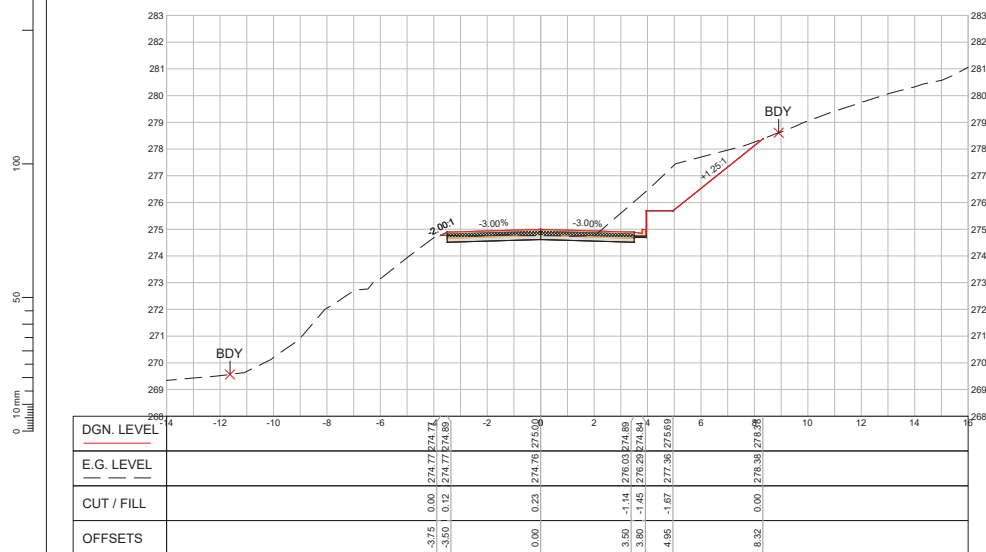
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RC: 2220252
Date: 20/12/2021



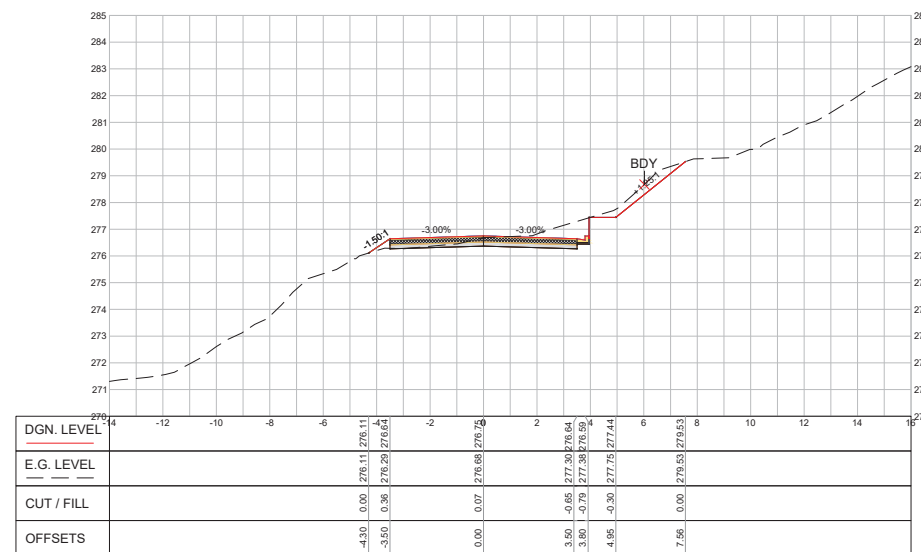
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STN. 4400.0



STN. 4370.0



STN. 4390.0

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REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P	05-07-2021



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SCALES	DESIGNED	APPROVED
1:100 AT A1	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

PROJECT
 FAR NORTH DISTRICT COUNCIL
 RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
 RUAPEKAPEKA ROAD - SEAL EXTENSION

TITLE
 CROSS SECTIONS
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WSP PROJECT NO. (SUB-PROJECT)
 1-14650.02

SHEET NO.
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REVISION
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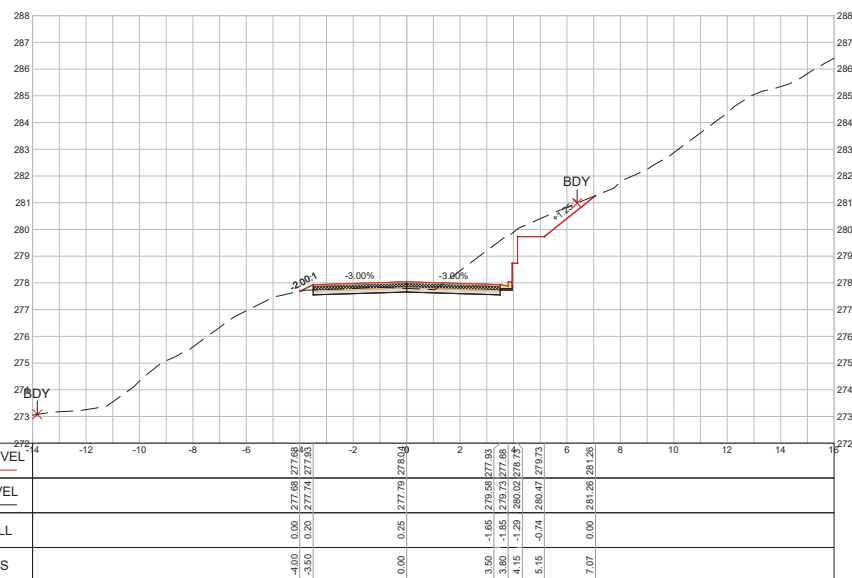
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RC: 2220252
Date: 20/12/2021

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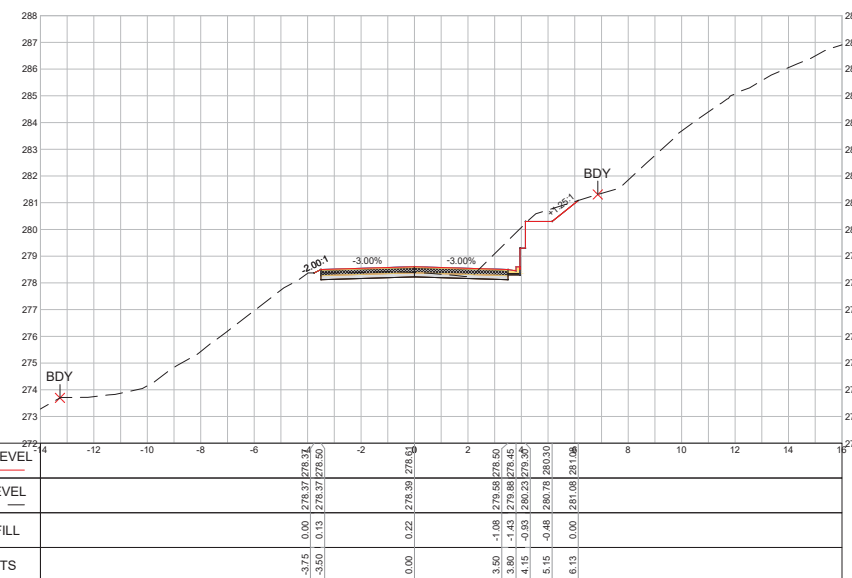
REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P	05-07-2021



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WORK IN PROGRESS
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SCALES	DESIGNED	APPROVED
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DRAWN	P. KUMAR	DESIGN VERIFIED
P. KUMAR	S. GRIEVE	APPROVED DATE
		05-07-2021

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)
FAR NORTH DISTRICT COUNCIL RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525 RUAPEKAPEKA ROAD - SEAL EXTENSION	CROSS SECTIONS CROSS SECTIONS STN. 4410.0 - 4420.0	1-14650.02

SHEET NO.
C21

REVISION
A

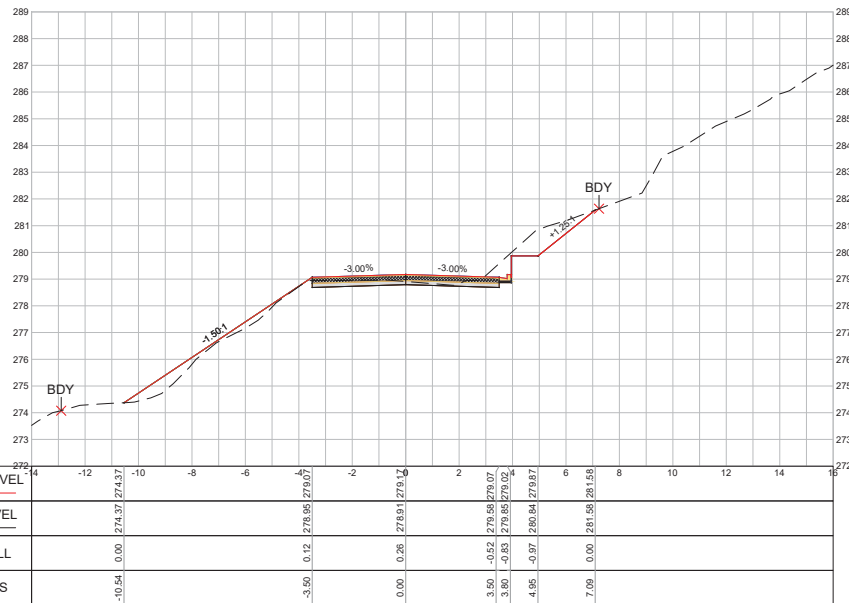
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RC: 2220252
Date: 20/12/2021

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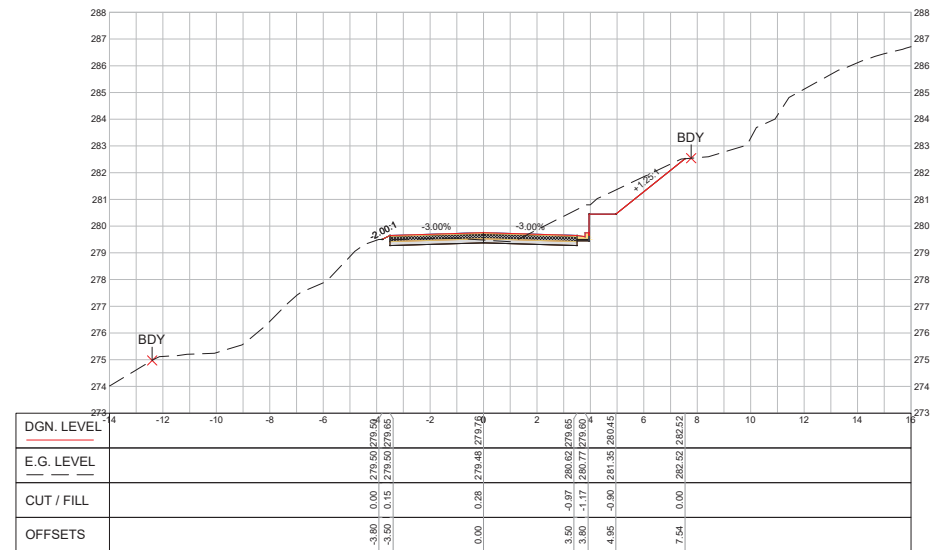
REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P	05-07-2021



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WORK IN PROGRESS
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P. KUMAR	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

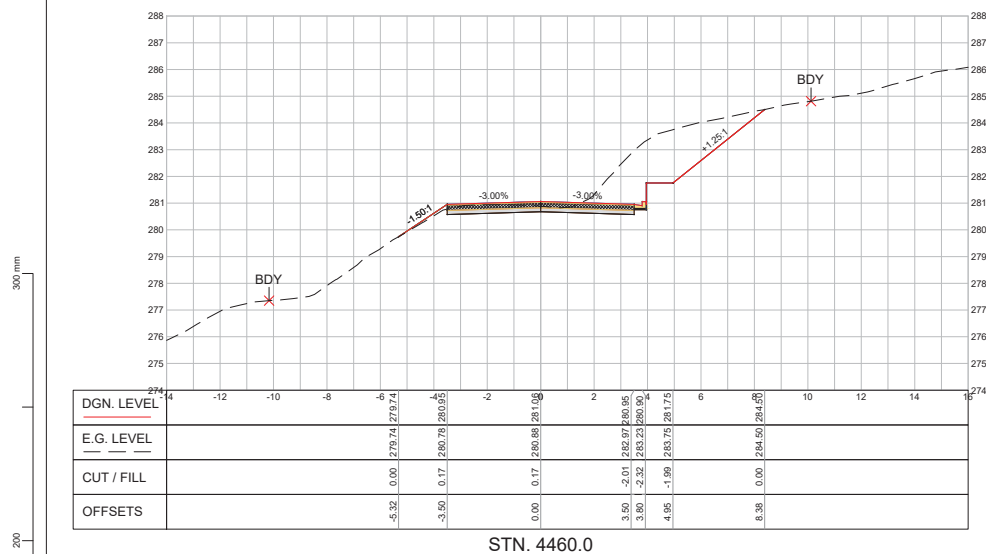
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CROSS SECTIONS STN. 4430.0 - 4440.0

WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

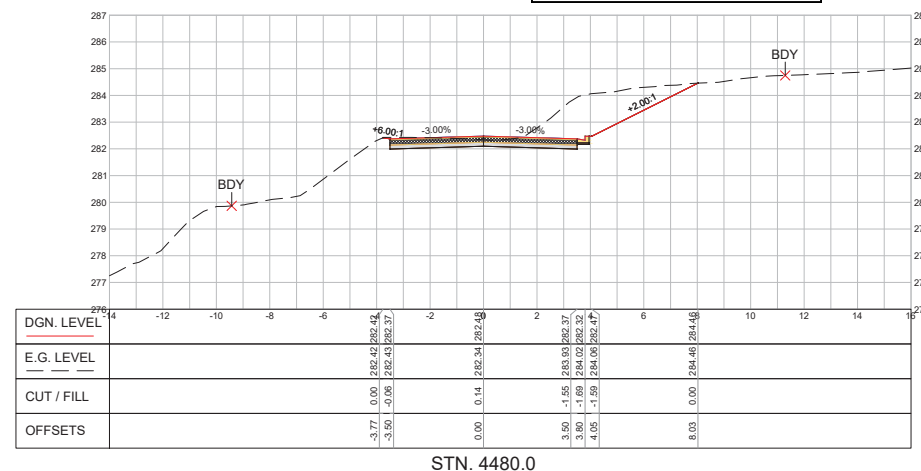
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C22

REVISION
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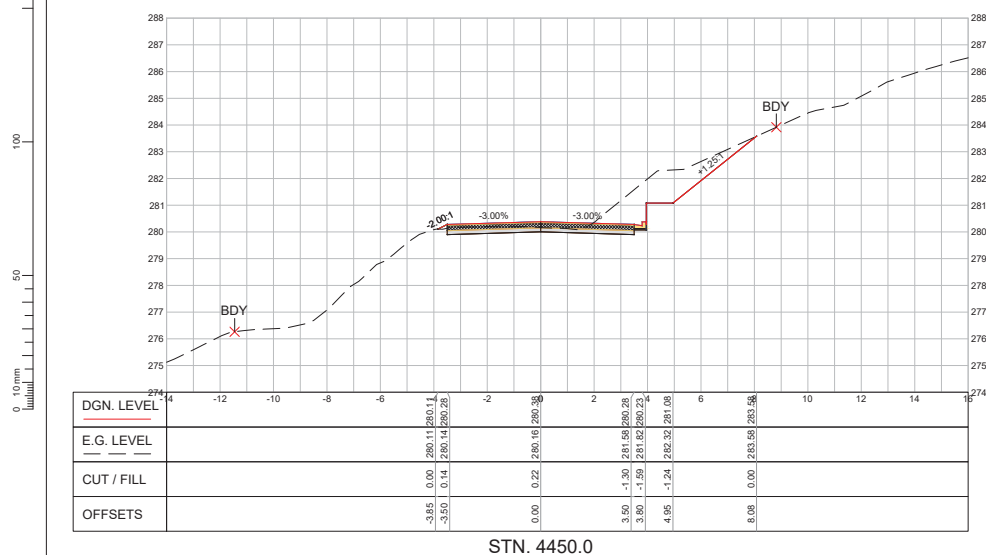
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RC: 2220252
Date: 20/12/2021



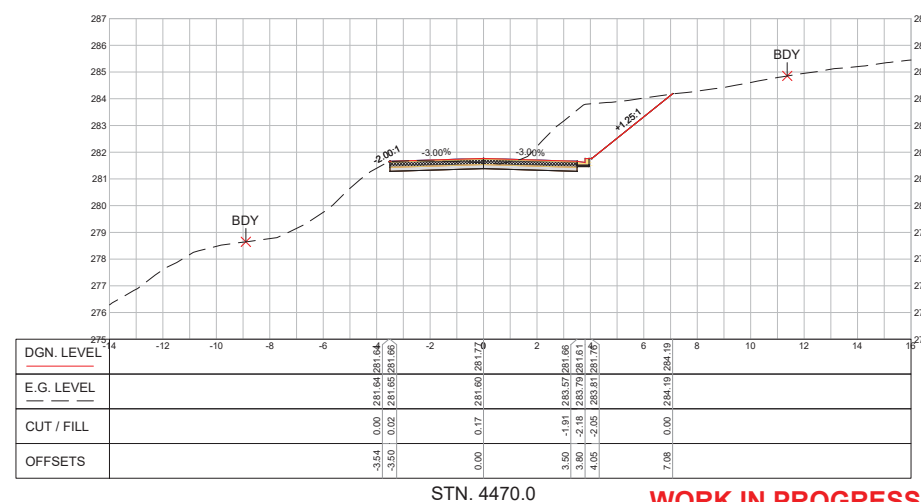
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STN. 4450.0



STN. 4470.0

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REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P.	05-07-2021



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SCALES	DESIGNED	APPROVED
1:100 AT A1	P. KUMAR	C. PARKER
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

PROJECT
FAR NORTH DISTRICT COUNCIL
RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525
RUAPEKAPEKA ROAD - SEAL EXTENSION

TITLE
CROSS SECTIONS
CROSS SECTIONS STN. 4450.0 - 4480.0

WSP PROJECT NO. (SUB-PROJECT)
1-14650.02

SHEET NO.
C23

REVISION
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RC: 2220252
Date: 20/12/2021

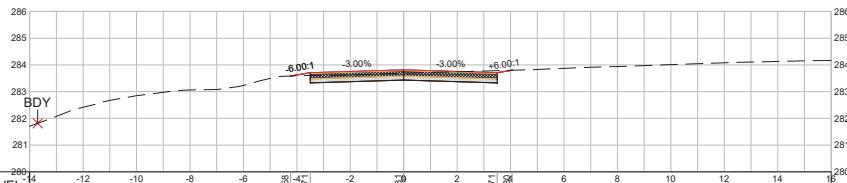
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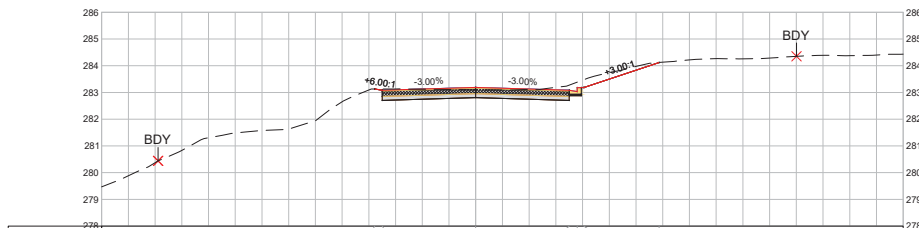
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REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P	05-07-2021



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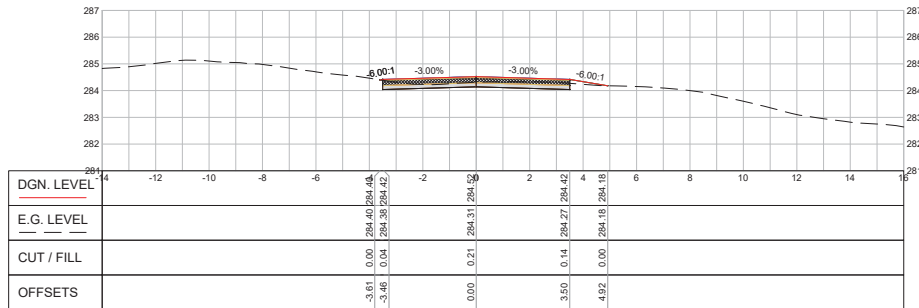
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DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

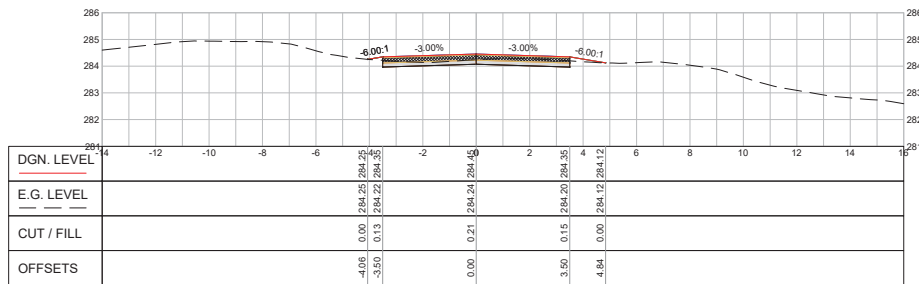
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CROSS SECTIONS CROSS SECTIONS STN. 4490.0 - 4500.0	1-14650.02	C24	A

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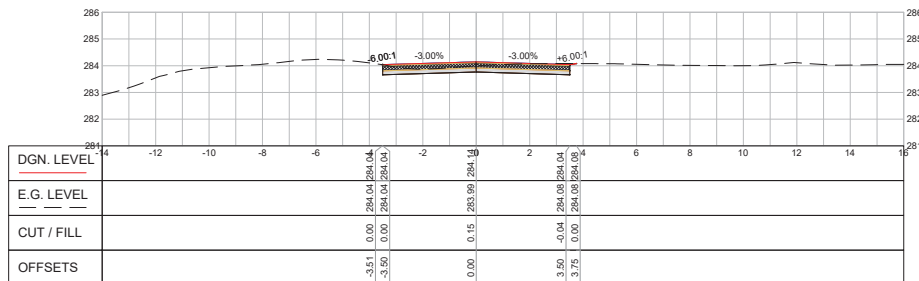
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Date: 20/12/2021



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STN. 4520.0



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REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	C.J.P	05-07-2021



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SCALES	DESIGNED	APPROVED
1:100 AT A1	P. KUMAR	C. PARKER
DRAWN	P. KUMAR	C. PARKER
DRAWING VERIFIED	S. GRIEVE	APPROVED DATE
S. GRIEVE	S. GRIEVE	05-07-2021

FOR TENDER

ORIGINAL SIZE	PROJECT
A1	FAR NORTH DISTRICT COUNCIL RUAPEKAPEKA ROAD RAMM DISP. 4.127 - 4.525 RUAPEKAPEKA ROAD - SEAL EXTENSION
TITLE	CROSS SECTIONS CROSS SECTIONS STN. 4510.0 - 4522.3
WSP PROJECT NO. (SUB-PROJECT)	1-14605.02
SHEET NO.	REVISION
C25	A

WORK IN PROGRESS
PRINTED 6/07/2021 10:21:27 AM

Application Number: APP.043471.01.01 & APP.043472.01.01

Application Type: Non-notified New

Applicant Name: Far North District Council and NZTA-Waka Kotahi

***Note:** In this decision document, “application”, “activity” and “consent” refer to all activities that are part of the consent application.*

REASONS FOR THE DECISION

This consent is granted pursuant to Section 104B of the Resource Management Act 1991 (the Act). In reaching this decision, the council has considered the matters outlined in Part 2 and Section 104 of the Act. It has been determined that:

- (1) The adverse effects of the proposed activity on the environment will be no more than minor.
- (2) The proposed activity is consistent with the relevant statutory planning documents and regulations.
- (3) The granting of this resource consent achieves the purposes of the Act.

Summary of Activity

The application is a joint application from Far North District Council (FNDC) and NZTA-Waka Kotahi for resource consents for roading improvements to intersection of Ruapekapeka Road and State Highway 1 (SH1). The activities involve earthworks and the re-alignment of a section of an unnamed tributary of the Towai Stream adjacent to SH1. The applicants have requested that the relevant activities be split into separate consents to manage their respective responsibilities for local road and SH1.

Earthworks are required to widen the road parcel to add a new turning bay onto SH1 and for excavation to allow for the paving of a new parking/rest area adjacent to the intersection. Overall, these works will involve approximately 2,240 cubic metres (m³) of earth moved over an area of 4,890 square metres (m²).

To make space for the widened road and car park, the adjacent tributary of the Towai stream will be realigned. This realignment will involve the excavation of a new stream channel into which the stream will be diverted, and the reclamation of the existing stream channel.

Regional Plan Rule(s) Affected

The reclamation of the stream is deemed a discretionary activity in accordance with Rule C.2.1.11 of the Proposed Regional Plan for Northland (PRP).

The diversion of the stream is deemed a discretionary activity in accordance with Rule C.3.1.7 of the PRP.

The earthworks will likely exceed 50 cubic metres of earth moved within a high-risk flood area and therefore the earthworks and associated diversion and discharge of stormwater are deemed discretionary activities in accordance with Rule C.8.3.4 of the PRP.

The vegetation clearance within 10 metres of the unnamed tributary of the Towai Stream is deemed a discretionary activity in accordance with Rule C.8.4.3 of the PRP.

National Environmental Standard Regulation(s) Affected

The reclamation of the stream is deemed a discretionary activity in accordance with Regulation 57 of the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (NES Freshwater).

Actual and Potential Effects (Section 104(1)(a) of the Act)

The adverse effects on the environment of this activity have been determined to be no more than minor for the following reasons:

- The earthworks will occur adjacent to an unnamed tributary of the Towai Stream. Effects on downstream water quality arising from stormwater discharges will be minimised by timing of works during the drier part of the year and installation of appropriate sediment control measures in accordance with the principles and practices set out in the Auckland Council technical publication “2016/005: Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region” (GD05).
- An erosion and sediment control plan for the works was provided with the application and the proposed erosion and sediment control measures include the installation of silt fences on the streamside of the works. As long as these measures are implemented effectively, any adverse effects on water quality will be adequately mitigated.
- The realigned stream will have a wider and uniform cross-sectional area which will be an improvement from the existing alignment which contains narrow sections that restrict flow. Rock lining will be used to reduce flow velocity and protect banks against erosion. It has been calculated that the rock lining will reduce stream velocity by 7% and therefore it is considered that any potential bed and bank erosion arising from the realignment will be adequately mitigated.
- The works will occur within a high-risk flood hazard area. The application states that the project has been designed to mimic pre-works catchment conditions as much as possible so that there are minimal changes to stormwater flows across the site. The finished works will increase the area of impervious surface coverage across the site which can impact the sites’ ability to deal with storm flows. However, the new channel has been designed to carry 95% more flow without overtopping than the current channel allows. It is therefore considered that the increase in impervious surfacing is likely to be mitigated by the increase in channel capacity locally. Overall, the works are unlikely to exacerbate flooding risk in the area.
- Prior to the stream works commencing, the stream will be surveyed for the presence of any fish, which will be captured and relocated within the catchment.

Cultural Effects

- The application has been circulated to tāngata whenua who have registered with council as having an interest in resource consent applications within the area of the activity. No response has been received by council from tāngata whenua.
- The applicant engaged the Te Ruapekapeka Trust to carry out a Cultural Values & Impact (CVIA) assessment on the wider Ruapekapeka Road upgrade project. The CVIA outlined the cultural significance of the location and recommended mitigation measures including the use of the Archeology Accidental Discovery Protocol. The applicant has offered a condition of consent which enforces the use of the protocol. Te Ruapekapeka Trust representatives will also be invited on site for karakia prior to works commencing, as well as ongoing cultural monitoring during works.

Relevant Statutory Provisions (Section 104(1)(b) of the Act)

The council has determined that the granting of this resource consent, is consistent with the objectives and policies contained in the National Policy Statement Freshwater Management 2020, Chapters 3 and 4 of the Regional Policy statement for Northland and Sections D,1, D.2, D.3, and F of the PRP.

The proposed activity contravenes Section 15 of the Act, and therefore the council has also had regard to the matters outlined in Section 105 of the Act. The council is satisfied that the activity will not give rise to the effects outlined in Section 107 of the Act after reasonable mixing.

Te Rūnanga o Ngāti Hine and Ngāti Hau each have an iwi/hapū environmental management plan relevant to the location of this activity. The granting of this consent is not contrary to the objectives and policies contained within Section 15 (Water) and 16 (Soils and Minerals) of *Ngā Tikanga me te Taiao o Ngāti Hine 2008* and section Wai Maori – Water of the Ngāti Hau Hapū Environmental Management Plan 2016.

Duration of the Consent

The applicant has requested a period of 5 years to carry out the works and an unlimited duration of for the permanent reclamation of the stream. These durations have been determined to be appropriate in the circumstances of the proposal.

In determining duration, regard has also been had to Section 37.5 of the Regional Water and Soil Plan for Northland and Policy D.2.14 of the PRP.

I confirm that these are the true and correct reasons for the decision to grant resource consent application numbers APP.043471.01.01 & APP.043472.01.01:

**Name and Signature of
Authorised Person:**

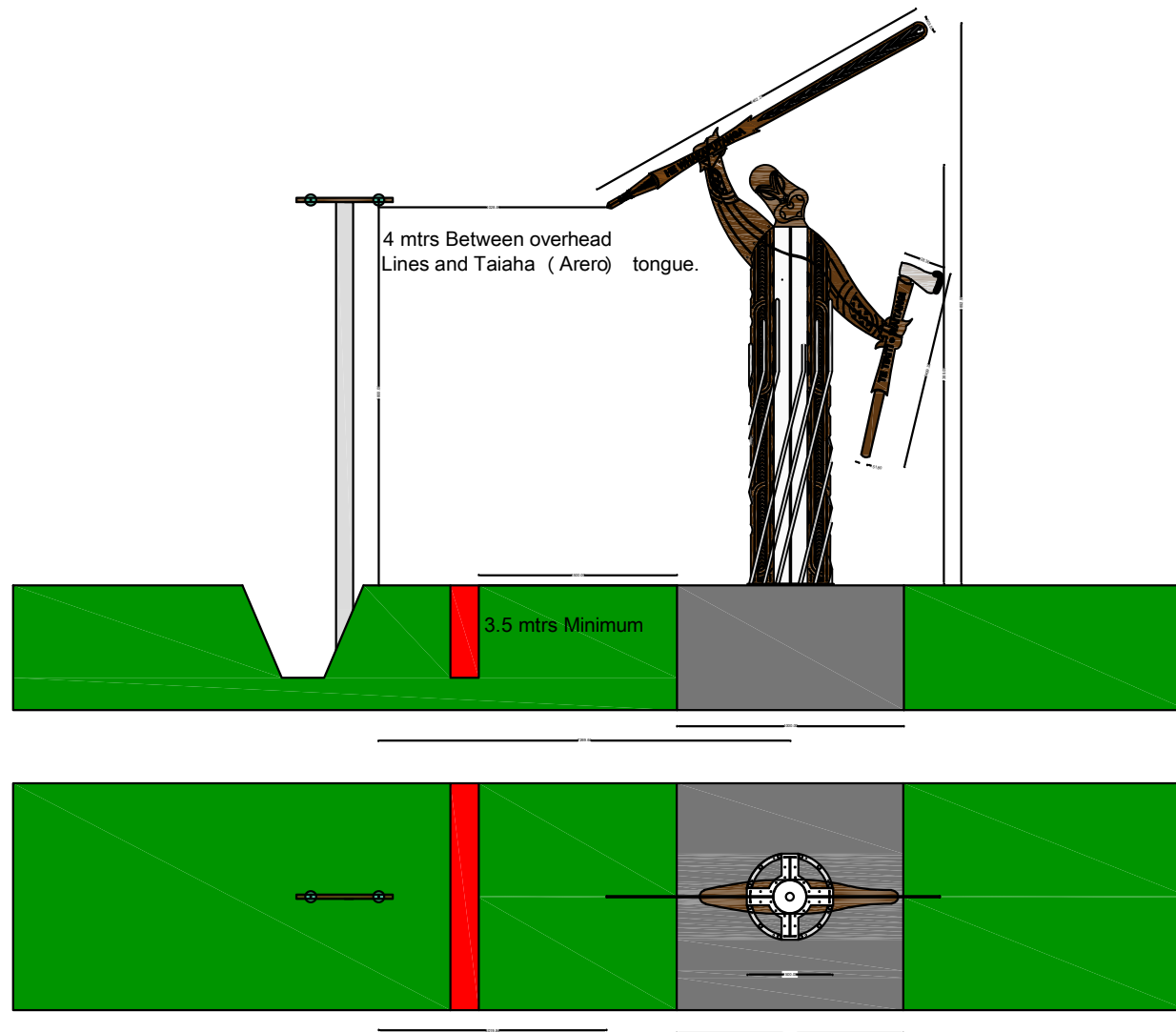


Paul Maxwell
Coastal and Works Consents Manager

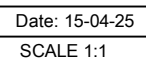
Date: 28 March 2022



Ownership Copyrights and confidentiality Owned by Te Ruapekapeka Trust	Towai Site Plan	Note: Pou is set back 782.55mm from boundary line	Date: 20-05-25
	GPS 35°29'07.8"S 174°07'52.3"E	ARAVISIONS LTD	SCALE 1:1



Ownership Copyrights and confidentiality Owned by Te Ruapekapeka Trust	Foundation Planning	Arapeta Wharepapa	Date: 30-04-25
	Drawing No# 12311 - 01 - 6 - 29	ARAVISIONS LTD	SCALE 1:1





6 June 2025

Far North District Council

New Artistic Pou Structure – Southern Cnr State Highway 1 and Ruapekapeka Rd, Towai, Far North

To the Building Official,

Compliance with Building Code Clause B2 – Durability

The purpose of this letter is to demonstrate how compliance with Clause B2 (Durability) of the Building Code will be achieved for the above project. For the specifically designed structural elements that are included within our design documentation:

Material	Means of compliance	Details
Mild steel structure	Alternative Solution	SW Engineering Ltd have been advised that a paint specification is to be provided by the client. Any paint protection for mild steel shall be specified in accordance with SNZ TS 3404 – Durability requirements for steel structures and components and AS/NZS2312 – Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings. This guide works on a time to first maintenance basis and assumes on-going maintenance by the asset owner. Routine washdowns to remove contaminants and regular condition inspections and steel/coating treatment are required.

Inspection Requirements

SW Engineering Ltd recommend that the following inspections are carried out by a suitably qualified engineer:

- Foundation slab (designed by others) pre-pour inspection, including embedded baseplate anchor arrangement.
- Completed structural steel, prior to leaving the shop or paint.
- Geotechnical inspections may also be required. Refer to geotechnical documentation.

The Council shall request a PS3 from the construction contractors covering NZBC B1 Structure.

Construction monitoring to CM3 has been selected on the PS1 *only for* the inspections listed and if the Council deems further engineering inspections to be required.



Yours faithfully,

A handwritten signature in black ink, appearing to read 'Mattin'.

Ryan Mattin
BE(Hons)(Civil), CPEng, CMEngNZ, IntPE
Director

SW ENGINEERING LTD



PRODUCER STATEMENT – PS1 DESIGN

BUILDING CODE CLAUSE(S): B1 | **JOB NUMBER:** 25020 |
ISSUED BY: SW Engineering Ltd |
(Engineering Design Firm) |
TO: Te Ruapekapeka Trust |
(Owner/Developer) |
TO BE SUPPLIED TO: Far North District Council |
(Building Consent Authority) |
IN RESPECT OF: New Artistic Pou Structure |
(Description of Building Work) |
AT: Southern Cnr State Highway 1 and Ruapekapeka Rd |
(Address, Town/City) |
LEGAL DESCRIPTION: FNDC-Owned Ruapekapeka Rd Reserve | **N/A** ☐

We have been engaged by the owner/developer referred to above to provide *(Extent of Engagement):* Structural design of structural steel artistic pou structure.
 in respect of the requirements of the Clause(s) of the Building Code specified above for Part only, as specified in the Schedule, of the proposed building work.

The design carried out by us has been prepared in accordance with:

- ☒ Compliance documents issued by the Ministry of Business, Innovation & Employment *(Verification method/acceptable solution)* B1/VM1 and/or;
- ☐ Alternative solution as per the attached Schedule.

The proposed building work covered by this producer statement is described on the drawings specified in the Schedule, together with the specification, and other documents set out in the Schedule.

On behalf of the Engineering Design Firm, and subject to:

- Site verification of the following design assumptions: correct construction of engineered concrete plinth foundation.
- All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that:

- the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the Schedule, will comply with the relevant provisions of the Building Code and that;
- the persons who have undertaken the design have the necessary competency to do so.

I recommend the CM 3 level of **construction monitoring**.

I, *(Name of Engineering Design Professional)* Ryan Mattin, am:

- ☒ CPEng number 1152180 and hold the following qualifications BE(Hons)(Civil), CPEng, CMEngNZ, IntPE

The Engineering Design Firm holds a current policy of Professional Indemnity Insurance no less than \$200,000
 The Engineering Design Firm is not a member of ACE New Zealand.

SIGNED BY *(Name of Engineering Design Professional):* Ryan Mattin
(Signature below):



ON BEHALF OF *(Engineering Design Firm):* SW Engineering Ltd

Date: 06/06/2025

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.

SCHEDULE to PS1

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

Drawings by Aravisions Ltd endorsed by SW Engineering Ltd

Structural design calculations by SW Engineering Ltd (attached)

B2 Durability Statement and Inspection Requirements Schedule by SW Engineering Ltd (attached)

****Structural design of pad foundation by others. Structural design of pou structure assumes rigid connection to rigid foundation pad which shall be provided. Foundation designer must co-ordinate with SW Engineering Ltd to ensure superstructure and foundation structure compatible.****

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:

- ¹ Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- ² NZIA Standard Conditions of Contract SCC 2011
- ³ Guideline on the Briefing & Engagement for Consulting Engineering Services (ACE New Zealand/Engineering New Zealand 2004)
- ⁴ PN01 Guidelines on Producer Statements

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NZBC B1 Structure	✓
AS/NZS 1170 Design Loadings	✓
NZS 3101 Concrete Structures	✓
NZS 3404 Steel Structures	✓
NZS 3603 Light Timber Framed Buildings	
NZS 3604 Timber Design	
AS 2870 Expansive Soils	
NZS 4229 Concrete Masonry Buildings Not Requiring S.E.D.	
NZS 4230 Design of Reinforced Concrete Masonry Structures	

[illegible]



AS/NZS 1170.2:2021 Calculation of Site Wind Speed

Wind direction

Any

Hill Multiplier

Reference height

z 9 m

Height of hill

H 78 m

Horizontal distance to half height of crest

Lu 270 m

Horizontal distance to crest (Positive upwind)

x 460 m

Hill Shape

Hills and Ridges

Length Scale 1

L1 97.2

Length Scale 2

L2 388.8

H/(2Lu) 0.14

Hill Shape Multiplier

Mh 1.00

Section 4.4.2.

Regional wind speed, ultimate

Vr 45.0 m/s

Table 3.1(B) V₅₀₀

Regional wind speed, serviceability

Vs 39.0 m/s

Table 3.1(B) V₂₅

Wind Direction Multiplier

Md 1.00

Table 3.2(B)

Shielding Multiplier

Ms 1.00

Table 4.3

Climate Change Multiplier

Mc 1.00

Table 3.3

Terrain Category

TC 2.00

Section 4.2.1

Terrain/height Multiplier

Mz 0.98

Table 4.1

Site Elevation

E (Less than 500m ok) 500 m

Topographic Multiplier

Mt 1.00

<=500m SL: Mt=Mh or Mlee

Wind Speed (V_{sit,β})

Wind Zone

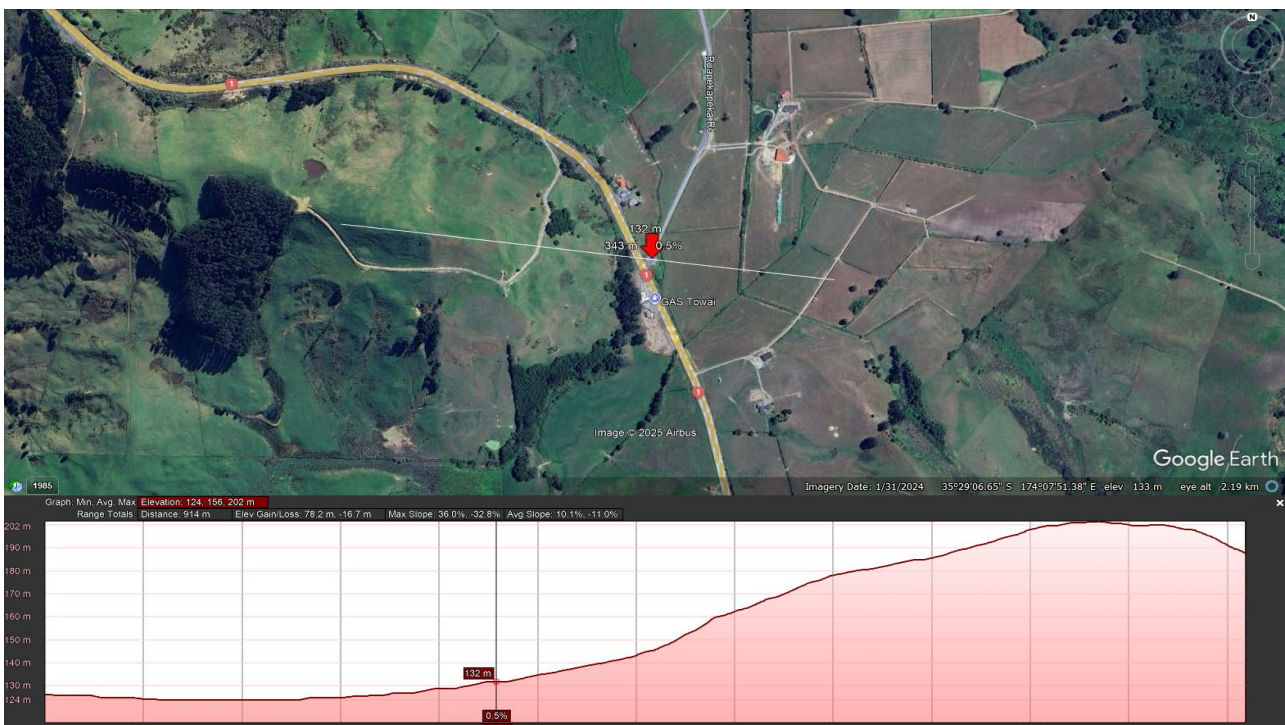
Wind Pressure

Vsit ultimate	44.2 m/s	VERY HIGH	1.17 kPa
Vsit service	38.3 m/s		0.88 kPa

$$V_{sit,\beta} = V_r M_C M_d (M_{z,cat} M_s M_t)$$

NZS3604:2011

$$P = 0.5 \rho_{air} (V_{sit,\beta})^2$$





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PROJECT RUAPEKAPEKA POLE

CLIENT ARAVISIONS

PAGE NO. 2

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DATE 09/05/25

CENTRAL POLE

- ADVISED CENTRAL POLE IS 610 Ø x 6.35 C350LO PIPE.
- CHECK BASE MOMENTS FOR WIND + SEISMIC.

$$W_u = 1.174 P_k$$

$$E_u \approx 0.19 g$$

$$E_{u, \text{PARTS}} = 0.32 g$$

COMPARE (W_u) vs ($E_{u, \text{PARTS}}$):

PARTS ONLY TO APPLY TO "TOOLS" + "ARMS": ASSUME MAX 30mm THICK STEEL PLATE:

$$(W_u) = 1.174 P_k \times (1.5) = 1.84 P_k \rightarrow$$

$$(E_{u, \text{PARTS}}) = 30 \text{mm} \times 804 \text{N/mm}^2 \times 3 \times 0.32 g = 0.776 P_k \rightarrow \text{DOES NOT GOVERN OVER WIND.}$$

(E_u) FOR POLE ETC WILL NOT GOVERN OVER WIND (BY INSPECTION)

FOR POLE BASE MOMENTS, DETERMINE CONTRIBUTION OF EACH ATTACHED PART:

$$\text{TOWER: } 1.8 \text{m}^2 \times 1.84 P_k = 3.24 \text{N} \rightarrow$$

$$\text{TOWER ARM: } 1.0 \text{m}^2 \times 1.84 P_k = 1.84 \text{N} \rightarrow$$

$$\text{HEAD: } 0.7 \text{m}^2 \times 1.84 P_k = 1.34 \text{N} \rightarrow$$

$$\text{TOWER: } 0.8 \text{m}^2 \times 1.84 P_k = 1.44 \text{N} \rightarrow$$

$$\text{TOWER ARM: } 0.9 \text{m}^2 \times 1.84 P_k = 1.64 \text{N} \rightarrow \text{TOTAL} = 9.34 \text{N} \rightarrow$$

$$\text{POLE INCL ATTACHED WIDENINGS: } 1.5 \text{m WIDE} \times 1.84 P_k = 2.74 \text{N/m} \rightarrow$$

$$\text{TAKE } (W_u) = 1.174 P_k \times (1.5) = 1.84 P_k \rightarrow \text{-- APPLY TO AREAS OF PARTS ABOVE}$$

APPROXIMATE DEMAND BY ADDING ATTACHED PARTS CONTRIBUTIONS AS POINT LOADS TO TOP OF POLE IN COMBINATION WITH UDL TO POLE + WIDENINGS:

$$\begin{aligned} M^* &= PL + WL^2/2 = (9.34 \text{N} \times 6.3 \text{m}) + (2.74 \text{N/m} \times (6.3 \text{m})^2/2) \\ &= 58.64 \text{Nm} + 53.64 \text{Nm} \\ &= \underline{\underline{112.24 \text{Nm}}} \end{aligned}$$

$$\phi M_{ex} = 0.9 \times 350 \text{MPa} \times 1813 \times 10^3 \text{mm}^3 = 571.4 \text{Nm} \text{ -- OK!}$$

← SAP2000

$$\delta (W_u) \text{ TOP OF POLE} \approx 7.0 \text{mm} + 4.8 \text{mm} = 11.8 \text{mm} = \text{HEIGHT}/534 \text{ -- OK!}$$

$$I_y = 553 \times 10^6 \text{mm}^4 \quad \leftarrow \text{A.L.D.} \quad \leftarrow \text{U.D.L.}$$

← SAP2000

610 x 6.35 C350LO PIPE OK!



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PROJECT RUAPEKAPEKA POU

CLIENT ARAVISIONS

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BASEPLATE

$$M^* = 112 \text{ kNm}$$

EFFECTIVE GUSSETS PROPOSED EXTENDING APPROX 3SD.. FROM EDGE OF POLE IN FOUR DIRECTIONS (X & Y).

$$\text{EFFECTIVE LENGTH ARM} = \text{SAY } 250.. + 600.. + 250.. = 1100..$$

$$T \& C \text{ COUPLE} = 112 \text{ kNm} / 1.1 = 102 \text{ kN} \uparrow \downarrow (T \& C)$$

CHECK 2/M24 S/S ANCHORS : IN TENSION :

$$\phi N_t = 0.85 \times 200 \text{ MPa} \times (24.. / 2)^2 \times \pi = 76.9 \text{ kN} \times 2 \text{ ANCHORS} = 154 \text{ kN} \uparrow - \text{OK!}$$

FoS = 1.5 OVER ULS

$$\text{LOAD TO EACH ANCHOR} = 102 \text{ kN} / 2 = 51 \text{ kN} \uparrow$$

CHECK BENDING ON BASEPLATE. ASSUME CANTILEVERS BEYOND GUSSET : CONSERVATIVE AS COULD BE ASSUMED AS SIMPLY SUPPORTED (BY ANCHORS) WITH PT. LD. OF GUSSET MIDSPAN: 

$$M^* = PL = 51 \text{ kN} \times 50.. = 2.6 \text{ kNm}$$

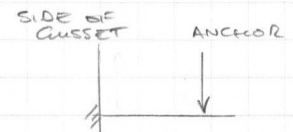
$$TM \ 25.. \ G300 \ \text{PLATE} = 0.9 \times 300 \text{ MPa} \times 125.. \times \frac{(25..)^2}{6} = 3.5 \text{ kNm} - \text{OK!}$$

← EFF. WIDTH

CHECK M24 4.6 HDG

$$\phi N_t = 0.85 \times 400 \text{ MPa} \times 0.6 \times (24.. / 2)^2 \times \pi \times 2 = 185 \text{ kN} - \text{OK!}$$

← 2 ANCHORS



CORROSION LOSSES :

ASSUME 15-YEAR GALV LIFE = 35 YEARS OPEN

$$\begin{aligned} & \times 16 \text{ mm / YEAR} \\ & = 0.56.. \text{ LOSS TO FULL PERIMETER} \\ & \rightarrow 22.. \text{ Ø AFTER LOSSES} \\ & = 155 \text{ kN} - \text{OK!} \end{aligned}$$

25.. G300 BASEPLATE
WITH ~~M24 S/S (ISOLATED)~~
~~M24 4.6/S HDG~~
ANCHORS OK.



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PROJECT RUAPEKAPEKA POH

CLIENT ADDITIONS

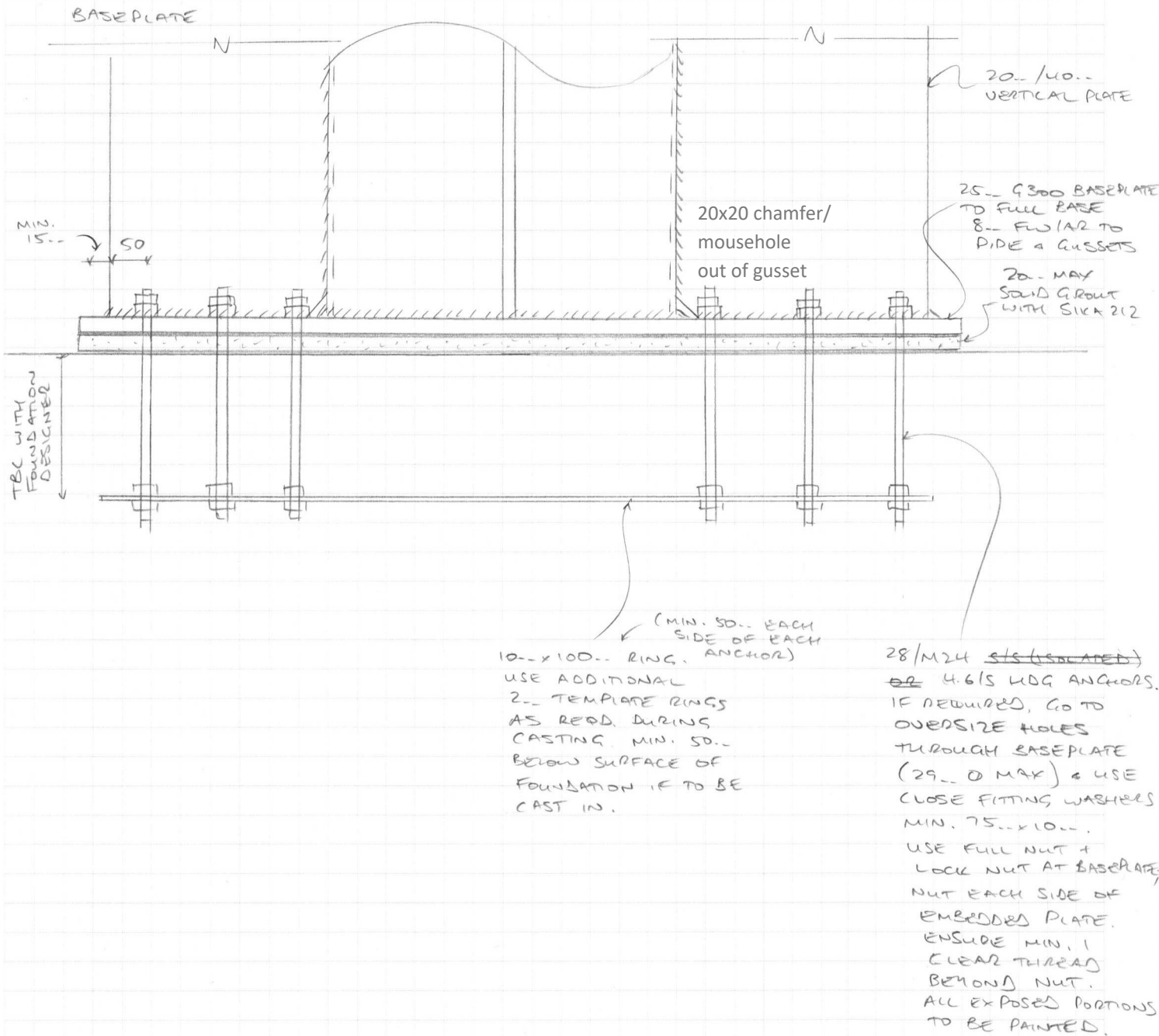
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FILE NO. 25070

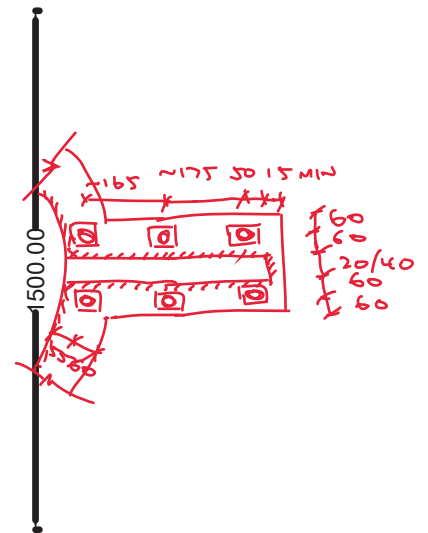
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PROJECT RUAPEKAPEKA DM.

CLIENT ARAVISIONS

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TAIAHA

- TO CANTILEVER (VERT + HORIZ.) FROM ARM.

$$CANT' = 4.3-$$

$$WIDTH = 0.19- (190--)$$

$$(W_u) = (1.17 W_D \times (1.5)) \times 0.19- = 0.33 kN/- \rightarrow$$

$$(W_s) = (W_u) / 1.33 = 0.25 kN/- \rightarrow$$

$$M^* = 3.1 kN-$$

G300
TRY 25-- PLATE:

$$\phi M_{sv} = 0.9 \times 300 MPa \times 190-- \times (25--)^2 / 6$$

$$= 5.3 kN-$$

CHECK DEFS:

$$E = 200 GPa$$

$$I_y = 0.247 \times 10^6 --^4$$

$$\delta_{cos} = 216-- \rightarrow \text{HIGH!}$$

$$32-- \text{ PLATE} = 103-- \rightarrow \text{HIGH!}$$

$$40-- \text{ PLATE} = 53-- \rightarrow \text{OK...}$$

CHECK GRAVITY DEFS:

$$I_v = 22.9 \times 10^6 --^4$$

$$(G) = 0.61 kN/- \downarrow$$

CONSERVATIVE AS TAIAHA AT
APPROX 1V:1.9H SLOPE BUT
ASSUME BALANCES WITH EXTRA
CORTEN DECORATIONS (WEIGHTWISE)

$$\delta_{CG} = 5.6-- = CANT' / 768 - \text{LOW!} - \text{OK!}$$

CHECK GRAVITY BENDING:

$$M^* = (1.35G) = 1.35 \times 0.61 kN/- \times (4.3--)^2 / 2 = 7.6 kN-$$

$$\phi M_{sv} = 0.9 \times 300 MPa \times 40-- \times (90--)^2 / 6 = 65.0 kN- - \text{OK!}$$

- ADOPT 40-- x
190-- MIN. WIDTH
SOLID G300
TAIAHA



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PROJECT PuA DELADELA POOL

CLIENT ARAVISIONS

TAIAHA ARM

LENGTH = 1.9m

HORIZ. OFFSET FROM POLE = 0.8m

GRAVITY

INDUCED BENDING MOMENT FROM TAIAHA = $+7.2kNm$ (1.35G)

UO. PLATE OF TAIAHA CONTINUES TO FORM VERT PLATE OF ARM. MINIMUM DEPTH LOCATED AT "WRIST" THEN TAPERES TO BECOME DEEPER TOWARDS "BODY". MIN DEPTH = 210. AT WRIST
MAX DEPTH = 600. AT BODY

MIN. DEPTH OF ARM > 190. WIDE TAIAHA THEREFORE OK FOR BENDING.

ADDITIONAL MOMENT INDUCED IN ARM DUE TO LEVEL ARM OF WEIGHT OF TAIAHA + SELF-WEIGHT OF ARM. DUE TO MUCH DEEPER SECTION DEPTH TOWARDS BODY (CONSIDER OK BY INSPECTION).

LATERAL

$M_y^* = [W_u] = [(0.33kN/m \times 6.3) + (1.17kPa \times (1.5 \times 0.4 \times 1.9) \times (1.9/2))] = 5.2kNm$
 $M_y^* = 5.2kNm$ AT BODY / SHOULDER.

HORIZ. SECTION OF ARM AT SHOULDER = 20. x 600. — OK BY INSPECTION.

CHECK BUCKLING! — LIKELY OK DUE TO VERY LOW BENDING STRESSES DUE TO SIGNIFICANT SECTION DEPTH + RESTRAINED BY VERT FLANGE + BOX GUSSETS
COMPOSITE ACTION WILL REDUCE STRESSES IN HORIZ. FLANGE/PLATE FURTHER.

CHECK TORSION:

$T^* \approx M_{TAIAHA}^* = 3.1kNm$ TO END OF ARM

MODEL IN SAP2000, INCL TAPER OF ARM + UO. VERT PLATE — 5° TORSION — NO GOOD!

↳ GO TO CLOSED SECTION

FORM CLOSED SECTION BETWEEN "+" SECTION "FLANGES".

MODEL IN SAP2000:

WITH 12. x 100. GUSSETS TO ONE SIDE ONLY:

TORSION = 0.037 RAD = 2.1° IN ARM

≈ 16. TORSION-INDUCED DEF. @ END OF TAIAHA — OK!
 $\hookrightarrow$ ULS $[W_u]$

TOTAL DEF @ END OF TAIAHA = 84. UNDER $[W_u]$

= 63. UNDER $[W_s] = \text{CANT}/68$

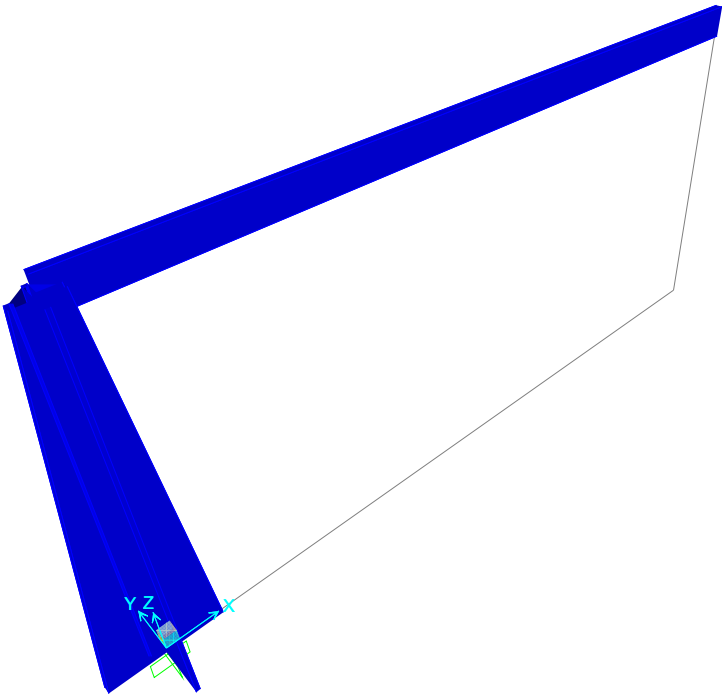
COMPARE WITH HAND CALC OF TAIAHA DEF.

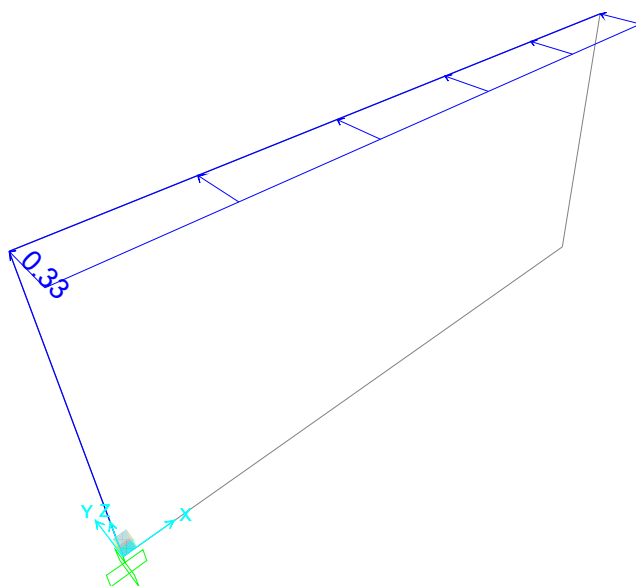
HAND CALC EXCL TORSION = 53. TAIAHA ONLY

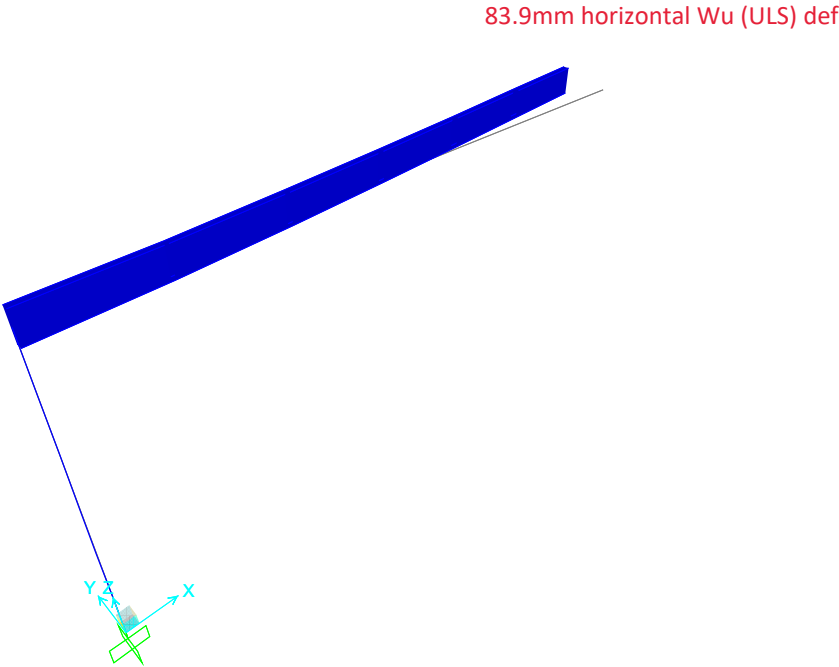
SAP2000 = $(84. - 16.) / 1.33 = 51.$ TAIAHA ONLY

ALIGNS!
OK.

THIS IS HIGH BUT LIKELY ACCEPTABLE FOR ARTWORK. IS A LONG WAY FROM GROUND! OVERALL PERSPECTIVE.









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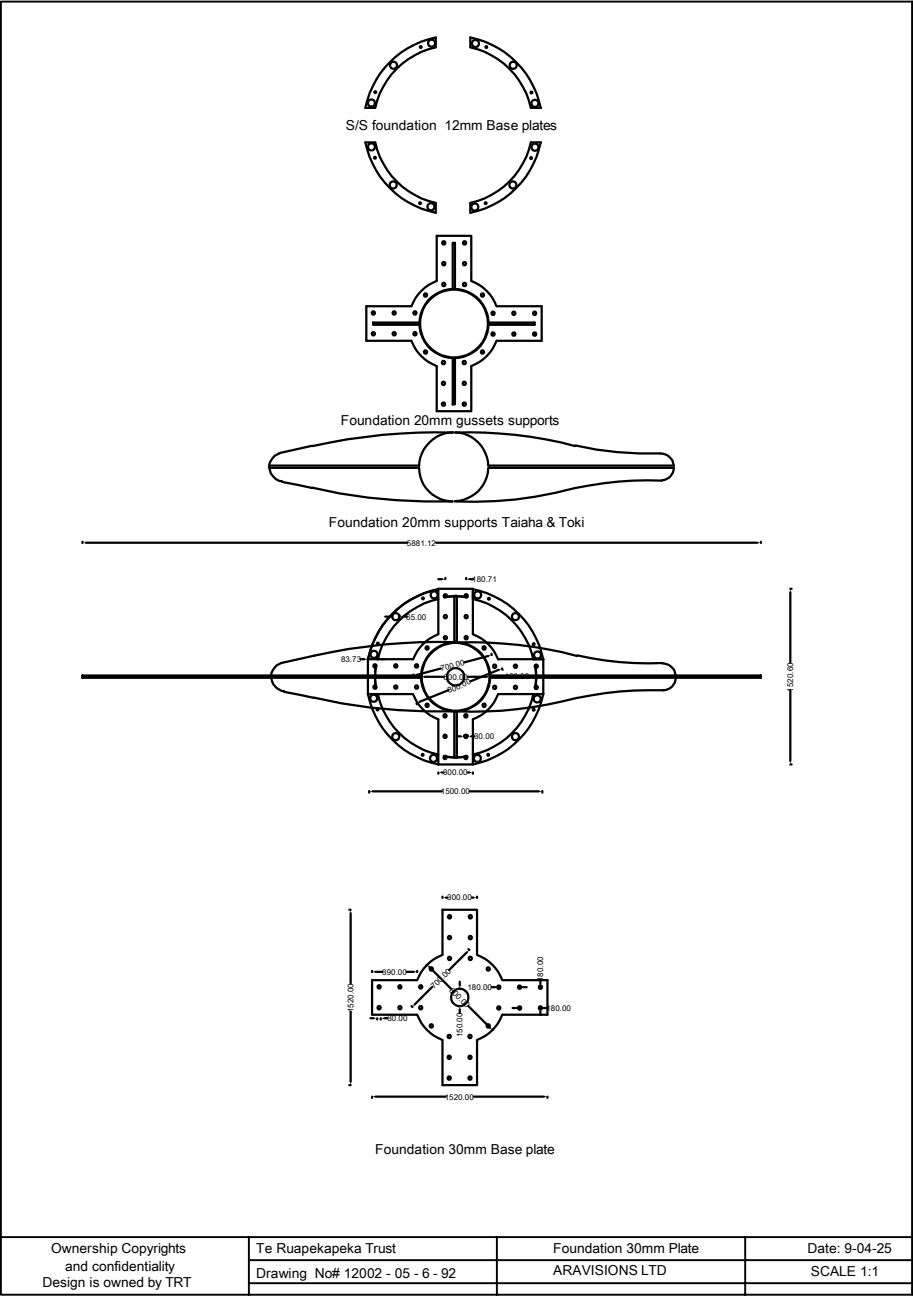
PROJECT RUAPEKAPEKA POH
CLIENT ARAUCTIONS

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TOKI/ADZE 1 ARM

- ADOPT SAME/SIMILAR DESIGN TO TAIAHA 1 ARM ARRANGEMENT DESIGN.





Appendix 5 - Rules Checklist

Proposal: Wayfinding Pou, Towai
Address: Pt Section 9 Blk V Hukerenui SD
District Plan: Far North District Plan

Siren 103		
Operative Zone	Rural Production Zone	
Proposed Zone	Rural Production	
Operative Overlays/Controls	NRC Flood Susceptible Land	
Proposed Overlays/Controls	River Flood Hazard Zone (10 and 100 Year ARI Event)	
Designations	None	
Rule	Compliance	Non-Compliance
Rural Production Zone		
8.6.5.1.1 RESIDENTIAL INTENSITY	N/A – No residential units proposed.	
8.6.5.1.2 SUNLIGHT		Does not Comply Wayfinding Pou proposed to be setback 0.783m from the northern boundary of the site. Given the height of the structure, it will project beyond a 45 degree recession plane as measured inwards from 2m above ground level. Restricted Discretionary
8.6.5.1.3 STORMWATER MANAGEMENT	Complies Wayfinding Pou has a base measurement of 9m ² so is under the permitted impermeable surfaces area of 15% gross site area maximum Permitted	
8.6.5.1.4 SETBACK FROM BOUNDARIES		Does not Comply Wayfinding Pou proposed to be setback 0.783m from the northern boundary of the site. Restricted Discretionary
8.6.5.1.5 TRANSPORTATION	N/A –Traffic, Parking and Access rules not relevant to the proposal.	

Rule	Compliance	Non-Compliance
8.6.5.1.6 KEEPING OF ANIMALS	N/A – no keeping of animals proposed	
8.6.5.1.7 NOISE	Complies Construction noise at the time of erecting will meet the permitted standards. Permitted	
8.6.5.1.8 BUILDING HEIGHT	Complies Proposed Wayfinding Pou has a height of 9.893m Permitted	
8.6.5.1.9 HELICOPTER LANDING AREA	N/A – no helicopter landing area proposed.	
8.6.5.1.10 BUILDING COVERAGE	Complies Proposed Wayfinding Pou has a base diameter of 1.6m so is under the maximum total Building Coverage of a site of 12.5%. Permitted	
8.6.5.1.11 SCALE OF ACTIVITIES	N/A - Not Relevant to the proposal.	
8.6.5.1.12 TEMPORARY EVENTS	N/A - Not Relevant to the proposal.	
Natural and Physical Resources		
12.1 LANDSCAPES AND NATURAL FEATURES	N/A – outstanding landscape and natural features not identified on proposed site.	
12.2 INDIGENOUS FLORA AND FAUNA	N/A –indigenous Flora and Fauna not identified on proposed site.	
12.3.6.1.1 EXCAVATION AND/OR FILLING, EXCLUDING MINING AND QUARRYING, IN THE RURAL PRODUCTION ZONE	Complies Less than 50m ³ of earthworks are proposed over an area of 10 m ² . This is us under the maximum volume of 5,000m ³ and the maximum permitted cut and fill height of 3m. Permitted	
12.4 NATURAL HAZARDS	N/A –Rules in this chapter are not applicable to the proposal.	
12.5 HERITAGE	N/A – Heritage sites not identified on proposed site.	

Rule	Compliance	Non-Compliance
12.7.6.1.1 SETBACK FROM LAKES, RIVERS AND THE COASTAL MARINE AREA		Does not Apply Proposed Wayfinding Pou site within a 10m setback from the nearest water body Permitted
12.8 HAZARDOUS SUBSTANCES	N/A – Rules in this chapter are not relevant to the proposal.	
12.9 RENEWABLE ENERGY AND ENERGY EFFICIENCY	N/A – Rules in this chapter are not relevant to the proposal.	
Proposed FNDC plan – rules that have immediate legal effect.		
EW-R12 Earthworks and the Discovery of Suspected Sensitive Material	Complies	
EW-R13 Earthworks and Erosion and Sediment Control	Complies	
EW-S3 Accidental Discovery Protocol	Complies	
EW-S5 Erosion and Sediment Control	Complies	

From: [Tessa Robins](#)
To: [Makarena Dalton](#)
Subject: Re: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793 CRM:0503000246
Date: Tuesday, 17 June 2025 1:21:24 pm

Hi Makarena,

Perfect, thanks for the heads up!

I can see that there is a record of similar requests in this location in the past so I'll touch base with those involved and hopefully be able to provide comments relatively fast.

I'll be in touch and feel free to email if you need an update at any time!

Ngā mihi

Tessa Robins

Consultant Planner

Te Toki, System Design, Transport Services

Email: Tessa.Robins1@nzta.govt.nz

Mobile: 022 377 8812

From: Makarena Dalton <MakarenaD@barker.co.nz>
Sent: Tuesday, June 17, 2025 1:15 PM
To: Tessa Robins <Tessa.Robins1@nzta.govt.nz>
Subject: RE: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793 CRM:0503000246

Hey Tessa,

I was hoping this would come to you! Time constraints are construction / funding deadlines for the project. Te Ruapekapeka Trust (**Trust**) were provided funding as a 'Sites and Areas of Significance' by the [Provincial Growth Fund](#). Erecting the Pou is the final part of their project, and they have been advised by Kānoa that the Pou needs to be erected by **31 July**.

For you info, the Trust have already been working with the local lines company (Top Energy) to relocate electricity lines and have had confirmation from FNDC that they will assist by fast-tracking any RC's or BC Exemption applications.

Ideally, we want to lodge with a confirmed position from NZTA. So we've held off finalising the AEE.

Ngā mihi | Kind regards,

MAKARENA DALTON
Senior Associate
[027 286 2298](tel:0272862298)
MakarenaD@barker.co.nz

barker.co.nz



B&A Logo



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From: Tessa Robins <Tessa.Robins1@nzta.govt.nz>
Sent: Tuesday, 17 June 2025 1:06 pm
To: Makarena Dalton <MakarenaD@barker.co.nz>
Subject: intersection SH1 & Ruapekapeka Rd, Towai - Application-2025-0793 CRM:0503000246

Kia ora Makarena,

Thank you for sending this through, can you please advise of the time constraints and when you would need comments from NZTA by?

Ngā mihi

Tessa Robins

Consultant Planner

Te Toki, System Design, Transport Services

Email: Tessa.Robins1@nzta.govt.nz

Mobile: 022 377 8812

From: Makarena Dalton <MakarenaD@barker.co.nz>
Sent: Friday, 13 June 2025 11:38 am
To: Planning & Auckland Northland <AKLPlanning@nzta.govt.nz>; Environmental Planning <EnvironmentalPlanning@nzta.govt.nz>
Cc: Rowena Tana <rowena@nhht.co.nz>; Jacqui Hori-Hoult <Jacqui.Hori-Hoult@nzta.govt.nz>; Steve Matene <Steve.Matene@nzta.govt.nz>; Pita Tipene <pita@nhht.co.nz>; Kay Davis <kzkrowd@windowslive.com>
Subject: RE: Ruapekapeka Rd Towai

Tēnā koutou,

See correspondence below for some context, Te Ruapekapeka Trust has been working closely with NZTA Waka Kotahi over the years regarding various improvements to State Highway 1 in Towai. Up until recently, NZTA, FNDC and Te Ruapekapeka Trust were working together on a project to undertake corridor widening and safety improvements at the along State Highway 1 at the intersection with Ruapekapeka Road. Consents for the corridor improvements were obtained (refer to one drive link attached), however, both FNDC and NZTA are no longer progressing the works. Up until now, Te Ruapekapeka have been liaising with **Jacqui Hori-Hoult** (Regional Manager Te Tai Tokerau me Tāmaki

Makaurau, Maintenance & Operations) who is cc'd to these comms.

As such, Te Ruapekapeka Trust is seeking a new resource consent to erect a wayfinding Pou at the intersection of Ruapekapeka Road and State Highway 1, Towai in the Far North. The wayfinding Pou is the final piece of work associated with the Provincial Growth Funded project to recognise Ruapekapeka Pā as a nationally significant site and area of significance to Māori.

Resource Consent Details

The Pou is proposed within a site adjoining SH1, legally described as Part Section 9-10 Block V Hukerenui Survey District. The Pou will have a max height of 9.9m, have a width of between approximately 1.5m at the base and 6.3m at its widest and set on a 3m x 3m foundation. As proposed the Pou will be located approximately 0.7m from the legal boundary of Ruapekapeka Road and 5m from SH1.

Resource consents are required to infringe the 10m setback from boundary and sunlight rules. When compared to previous indicative location (shown on the approved plans), the Pou is located outside of the legal road corridor.

Te Ruapekapeka Trust intend on lodging the resource consent and building consent exemption next week, so any comments you from Waka Kotahi's planning team department would be welcome.

The following documents are enclosed at the one drive link below:

- Site plan and elevations of the Pou showing dimensions;
- Topographical survey showing ground levels and key physical features; and
- Approved RC for the Intersection Improvements.

[Te Ruapekapeka Pa Pou - Corner of State Highway 12 and Ruapekapeka Road](#)

There are significant time constraints to complete this project and any assistance you can provide to confirm NZTA's position in relation to this project would be greatly appreciated. If you have any questions, please don't hesitate to contact me.

Ngā mihi | Kind regards,

MAKARENA DALTON

Senior Associate

[027 286 2298](tel:0272862298)

MakarenaD@barker.co.nz

barker.co.nz



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