

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?

Please refer to the attached AEE.

Who else have you consulted with?

Please refer to the attached AEE.

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:

Top Energy - Taryn Collins

Email:

Phone number:

✓

Home

Postal address:

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

PO Box 43, Kerikeri

Postcode

0245

6. Address for Correspondence

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

Name/s:

Moana Schoffa

Email:

Phone number:

Work

Home

Postal address:

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

PO Box 414, Kerikeri

Postcode

0230

** 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:

Edward John Guest and Gail Marie Guest

**Property Address/
Location:**

754 Kohukohu Road, Kohukohu

also FNDC for road reserve

Postcode

0491

8. Application Site Details

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

Name/s:

**Site Address/
Location:**

Road Reserve and 754 Kohukohu Road, kohukohu

Postcode

0491

Legal Description:

Road reserve & Lot 25 DP 7199

Val Number:

Certificate of title:

NA58C/396

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.

Please contact Taryn Collins if you would like access to 754 Kohukohu Road, Kohukohu. No access restrictions to the road reserve of Kohukohu Road.

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.

The proposal involves the installation of a new 11kV overhead line and supporting pole structures within the road reserve of Kohukohu Road for a length of 5.6km. The proposal also seeks to install a new 2W HV line and supporting pole structures, as well as decommission an existing Single Wire Earth Return (SWER) overhead electricity line and pole structures at 754 Kohukohu Road, Kohukohu.

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)	Top Energy Limited - Atten: Taryn Collins		
Email:	T [REDACTED]		
Phone number:	V [REDACTED]		Home
Postal address: (or alternative method of service under section 352 of the act)	[REDACTED]		
	Postcode		0245

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)	Taryn Collins	
Signature: (signature of bill payer)	[REDACTED]	Date 01-Oct-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)

Moana Schoffa

Signature:

[Redacted Signature]

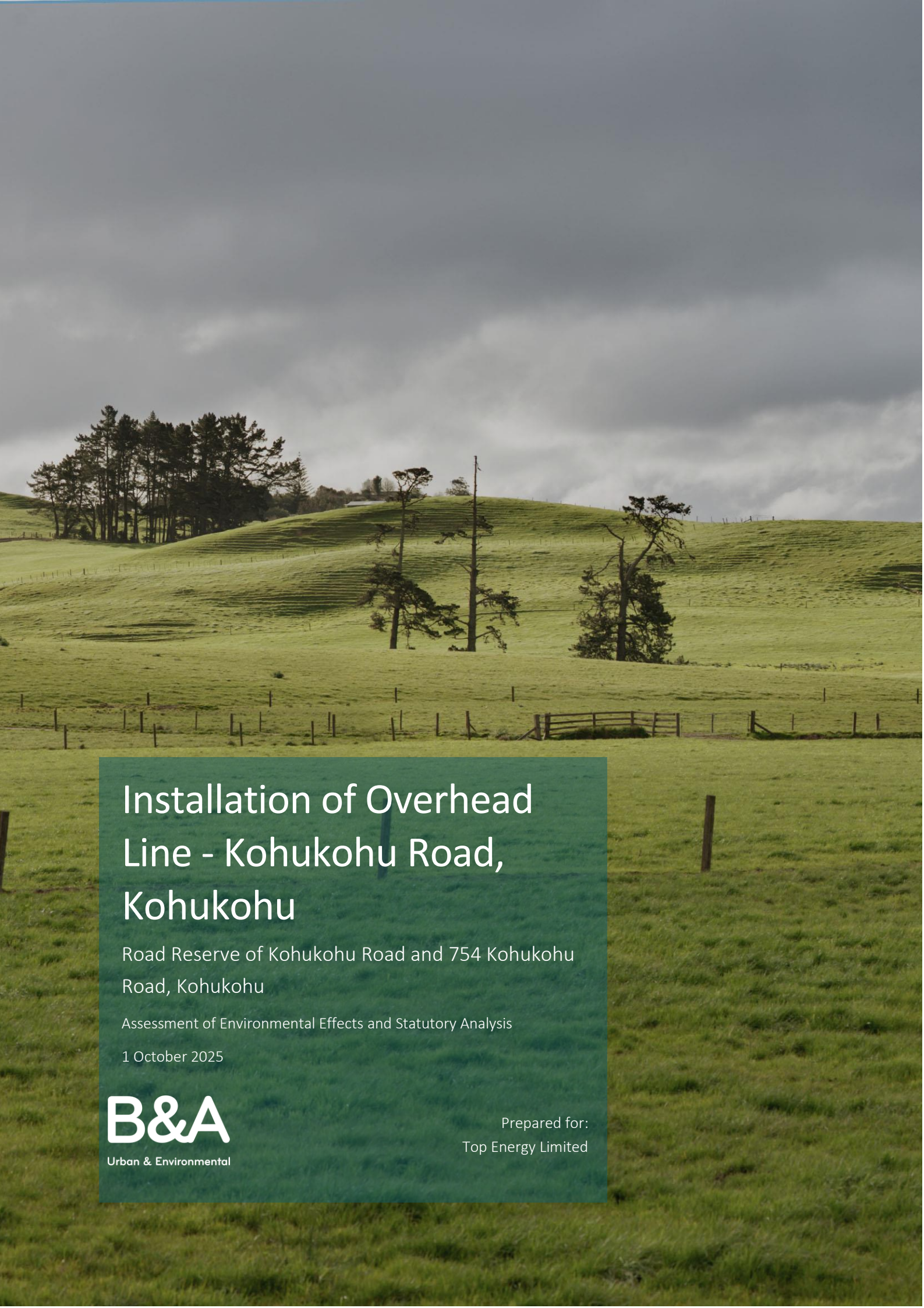
Date 01-Oct-2025

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.



Installation of Overhead Line - Kohukohu Road, Kohukohu

Road Reserve of Kohukohu Road and 754 Kohukohu
Road, Kohukohu

Assessment of Environmental Effects and Statutory Analysis

1 October 2025

B&A
Urban & Environmental

Prepared for:
Top Energy Limited

B&A Reference:

25382

Status:

Final

Date:

1 October 2025

Prepared by:



Moana Schoffa

Senior Planner, Barker & Associates Limited

Reviewed by:



David Badham

Partner, Barker & Associates Limited

Contents

Contents

1.0	Applicant and Property Details	6
2.0	Introduction	8
2.1	Background	8
2.1.1	Necessity of the Proposal	8
2.2	Engagement with Hapū	8
3.0	Site Context	9
3.1	Site Description	9
3.2	Surrounding Locality	10
4.0	Proposal	11
5.0	Reasons for Consent	12
5.1	Operative Far North District Plan	12
5.2	National Environmental Standard for Freshwater 2020	13
5.3	Activity Status	13
6.0	Public Notification Assessment (Sections 95A, 95C and 95D)	13
6.1	Assessment of Steps 1 to 4 (Sections 95A)	13
6.1.1	Step 1: Mandatory public notification is required in certain circumstances	13
6.1.2	Step 2: If not required by step 1, public notification precluded in certain circumstances	13
6.1.3	Step 3: If not required by step 2, public notification required in certain circumstances	14
6.1.4	Step 4: Public notification in special circumstances	14
6.2	Section 95D Statutory Matters	14
6.3	Land Excluded from the Assessment	15
6.4	Assessment of Effects on the Wider Environment	16
6.4.1	Visual and Landscape Effects	16
6.4.2	Archaeological Effects	17
6.4.3	Construction Activities	18
6.4.4	Māori Cultural Values	18
6.5	Summary of Effects	19
6.6	Public Notification Conclusion	19
7.0	Limited Notification Assessment (Sections 95B, 95E to 95G)	19
7.1	Assessment of Steps 1 to 4 (Sections 95B)	19
7.1.1	Step 1: Certain affected protected customary rights groups must be notified	19
7.1.2	Step 2: If not required by step 1, limited notification precluded in certain circumstances	19
7.1.3	Step 3: If not precluded by step 2, certain other affected persons must be notified	19
7.1.4	Step 4: Further notification in special circumstances	20
7.2	Section 95E Statutory Matters	20
7.3	Assessment of Effects on Persons	20
7.3.1	Summary of Effects	21
7.4	Limited Notification Conclusion	21

8.0	Consideration of Applications (Section 104)	21
8.1	Statutory Matters	21
8.2	Weighting of Proposed Plan Changes: Operative Far North District Plan	22
9.0	Effects on the Environment (Section 104(1)(A))	22
10.0	District Plan and Statutory Documents (Section 104(1)(B))	22
10.1	Objectives and Policies of the New Zealand Coastal Policy Statement 2010	22
10.2	Objectives and Policies of the Regional Policy Statement for Northland 2016	23
10.3	Objectives and Policies of the Operative Far North District Plan	24
10.3.1	Coastal Environment	24
10.3.2	Indigenous Flora and Fauna	26
10.3.3	Soils and Minerals	26
10.3.4	Lakes, Rivers, Wetlands and the Coastline	27
10.3.5	Designations and Utility Services	27
10.4	Summary	28
11.0	Part 2 Matters	28
12.0	Other Matters (Section 104(1)(C))	29
12.1	Customary Marine Title Planning Documents	29
13.0	Conclusion	30

Appendices

Appendix 1	Record of Title and Interests
Appendix 2	MACA Letters
Appendix 3	Proposed Plans – Overhead Line Route & Supporting Pole Structures
Appendix 4	Vegetation Management Plan
Appendix 5	FNDP and PFNDP Rules Assessment
Appendix 6	Written Approval - 754 Kohukohu Road
Appendix 7	Archaeological Survey and Assessment Report

1.0 Applicant and Property Details

To:	Far North District Council (FNDC)
Site Address:	Kohukohu Road, Kohukohu and 754 Kohukohu Road, Kohukohu
Applicant Name:	Top Energy Limited
Address for Service:	Barker & Associates Ltd PO Box 1986, Shortland Street, Auckland 1140 Attention: Moana Schoffa
Legal Description:	Road Reserve Coastal Marine Area Lot 25 DP 7199 (refer to Appendix 1)
Site Area:	N/A for works within road reserve and coastal marine area 754 Kohukohu Road, Kohukohu – 121.4056ha
Site Owner:	Road Reserve – Far North District Council 754 Kohukohu Road, Kohukohu – Edward John Guest & Gail Marie Guest
District Plan:	Operative Far North District Plan (FNDP)
FNDP Zoning:	Coastal Marine, General Coastal, Rural Production, Conservation
FNDP Overlays & Controls:	Nil
Designations:	Nil
Additional Limitations:	Parts of the line route are located within Northland Regional Council flood susceptible land
Locality Diagram:	Refer to Figure 1
Brief Description of Proposal:	The proposal involves the installation of a new 11kV overhead line and supporting pole structures within the road reserve of Kohukohu Road for a length of 5.6km. The proposal also seeks to install a new 2W HV line and supporting pole structures, as well as decommission an existing Single Wire Earth Return (SWER) overhead electricity line and pole structures at 754 Kohukohu Road, Kohukohu.

Summary of Reasons for Consent:

FNDP: Overall, resource consent is required as a **discretionary activity** – refer to **Section 5.1** below.

2.0 Introduction

This report has been prepared to address a resource consent application submitted by Top Energy Limited (hereafter referred to as 'Top Energy') for the installation of a new 11kV overhead electricity line, including concrete poles, within the road reserve of Kohukohu Road for a total length of 5.6km to provide reliable reticulated electricity supply to the Kohukohu and Broadwood townships. The proposal also seeks to install a new 2W HV line and supporting pole structures, as well as to decommission an existing Single Wire Earth Return (**SWER**) overhead electricity line and pole structures at 754 Kohukohu Road, Kohukohu.

This proposal will complete the staged upgrading of the power supply to the North Hokianga (Broadwood-Mangamuka to Kohukohu).

This Assessment of Environmental Effects (**AEE**) has been prepared in accordance with the requirements of section 88 and schedule 4 of 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 Background

2.1.1 Necessity of the Proposal

Top Energy have advised that the existing SWER overhead electricity line located within private farmland and bush adjacent to Kohukohu Road presently contains some of the worst feeders in terms of System Average Interruption Duration Index figures. The current overhead electricity line infrastructure is discontinuous, with coverage limited to isolated sections adjacent to Kohukohu Road. This segmented configuration does not provide full electrical connectivity across the entire route, and the proposal is therefore seeking to replace and upgrade this existing infrastructure with a new 3phase 11kv conductor to ensure consistent and reliable electricity distribution in the Hokianga Region.

Overall, this proposal seeks to create a link between the Rangiahua, Horeke and South Road Feeders which serve some of the most remote and reliability-challenged areas in the Hokianga Region. This will bring stability, reliability and quality power supply to the Horeke, Hokianga, Kohukohu and Broadwood areas.

Further to this, the existing overhead line and power poles are situated within private farmland and bush which presents challenges for accessibility. To aid with ease of access for ongoing maintenance, Top Energy propose to locate the new overhead electricity line and power poles within the road reserve of Kohukohu Road.

2.2 Engagement with Hapū

As detailed further in Section 12.1, engagement with several mana whenua groups has been undertaken on this project, with copies of the letters sent to each of these mana whenua groups enclosed as **Appendix 2**.

3.0 Site Context

3.1 Site Description

The majority of the works will be located within the road reserve of Kohukohu Road within the Rural Production Zone, with portions of the proposed new electricity line and supporting pole infrastructure located in the road reserve of the General Coastal Zone, Rural Production Zone and Conservation Zone.

The proposed route will also run adjacent to, and, at one point cross over the Coastal Marine Area (CMA). The extent of the work and subsequently the site is shown in **Figure 1** below.

The proposal also involves the installation of a new 2W HV line and supporting pole structures, as well as the decommissioning of an existing SWER line and pole structures at 754 Kohukohu Road, Kohukohu. This property is zoned Rural Production, is legally described as Lot 25 DP 7199, and is 121.4056ha in size. The site presently comprises an existing dwelling, farm sheds and open farmland dotted with trees and bush.

Kohukohu Road is a sealed, double laned arterial road located on the Hokianga Harbour. The road connects Kohukohu to State Highway 1 and minor roads leading to the west coast harbours of Whangape and Herekino.

The majority of the road reserve is grassed berm.



Figure 1: Locality plan.

3.2 Surrounding Locality

This section of Kohukohu Road is located along the Mangamuka River which is a tidal river that flows out of the Hokianga Harbour. The Mangamuka River is a general marine area.

The surrounding area is made up of rural pastoral land and areas of dense vegetation with some properties occupied by coastal residential housing. This area is known as Kohukohu.

The wider locality is made up of the small settlements of Horeke, Broadwood and Mangamuka which are predominantly made up of rural properties.

4.0 Proposal

A summary of the key elements of the proposal is set out below. More detailed descriptions of particular aspects of the proposal are set out in the plans accompanying this AEE attached as **Appendix 3**.

The proposal is to install an 11kv overhead line, as well as supporting pole structures within the road reserve of Kohukohu Road for a total length of 5.6km, spanning from the existing 3w 11kv overhead line to the north of proposed pole 1 to the existing 3w 11 kv overhead line situated to the south of proposed pole 83.

The proposal also seeks to install a new 2W HV line and supporting pole structures, as well as decommission an existing SWER overhead electricity line and pole structures at 754 Kohukohu Road, Kohukohu.

In summary, the proposal involves:

- **Structures:**
 - A new 11kv overhead electricity line will be installed between the Rangiahua, Horeke and South Road feeders;
 - A new 2W HV overhead electricity line will be installed at 754 Kohukohu Road, Kohukohu;
 - 87 new powerpoles, including stub poles and transformer poles (11.0m BUSCK poles – **see Figure 2 below**) will be installed at the intervals indicated on the plan attached as **Appendix 3**;
 - The proposal also includes the decommissioning of old overhead lines and supporting pole structures when the new overhead lines have been commissioned and energised. This will involve the removal of wire from poles and the removal of poles from private land.
- **Earthworks:** Minor land disturbance is proposed. The total volumes are estimated below:
 - Excavations for each power pole foundation hole are proposed to result in a cut of 0.6m³ and a fill of 0.55m³, at a depth of 1.8m below ground level. Majority of the earthworks will be within the road reserve which does not meet the definition of ‘site’¹ meaning that the thresholds stated in Chapter 12.3 are not applicable. The earthworks proposed within 754 Kohukohu Road will come under the permitted earthworks threshold of 5,000m³ for the Rural Production Zone. All excavations will be backfilled with existing material and comply with the maximum cut of 1.5m outlined in Chapter 12.3 of the FNDP.
- **Vegetation Clearance:** Some vegetation clearance including of indigenous species is required for the installation of the new overhead electricity line and supporting pole structures all of which will occur within the road reserve (refer to **Appendix 4**). As with the earthworks volumes, the relevant thresholds are either complied with or linked to ‘sites’ which as noted above does not capture the road reserve. No vegetation clearance is required for the decommissioning of the old overhead electricity line and supporting pole structures.

¹ The thresholds for earthworks volumes within Chapter 12.3 are per site, ‘site’ is a defined term in the FNDP and does not capture road reserve as this area of land is not issued a record/certificate of title and does not meet the exemptions of the part (b) or (c) of the definition.

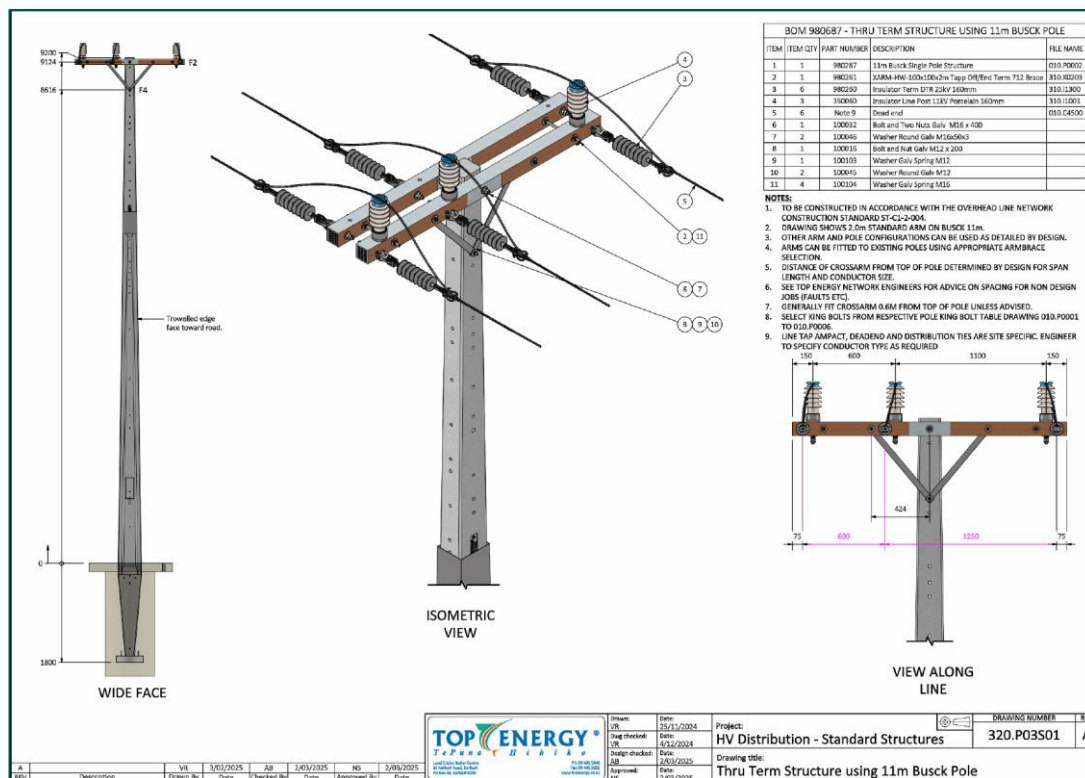


Figure 2: BUSCK Pole Structure Example

5.0 Reasons for Consent

A rules assessment against the provisions of the Operative Far North District Plan ('FNDP') is attached as **Appendix 5**. The site is zoned as Coastal Marine, General Coastal, Rural Production, and Conservation. The proposal requires consent for the matters outlined below.

An assessment of the Proposed Far North District Plan ('PDP') has also been undertaken within **Appendix 5** and only rules with immediate legal effect are considered relevant.

Resource consent is also required under the Proposed Regional Plan for Northland, an application for which has been lodged concurrently.

5.1 Operative Far North District Plan

Chapter 12.7 – Lakes, Rivers, Wetlands and the Coastline

- **Rule 12.7.6.3 – An activity which does not comply with one or more of the standards for permitted activities set out under Rule 12.7.6.1 –** The proposed 11kV electricity line route will be located within 30m of the CMA. Further to this, it is likely that the mangrove salt marsh within Te Karae Creek may meet the definition of 'natural wetland'. Resource consent is therefore sought as a precautionary measure given that the proposed works to install the new electricity line and poles will be located within 10m of this potential 'natural wetland.' – **Discretionary activity.**

Chapter 17.2 – Designations and Utility Services

- **Rule 17.2.6.4(c)– A new line or addition to lines for conveying electricity at a voltage up to and including 110kV, including all support structures for those lines, within the General Coastal Zone – A section of the proposed 11kV electricity line route will be located within the General Coastal Zone, which is an above ground utility service not specifically provided for in Rule 17.2.6.1.2 or Rule 17.2.6.1.6 – Discretionary Activity; and**
- **Rule 17.2.6.4(d) – A new line or addition to lines for conveying electricity at a voltage up to and including 110kV, including all support structures for those lines in the Conservation Zone – A section of the proposed 11kV electricity line route will be located within the Conservation Zone – Discretionary Activity.**

5.2 National Environmental Standard for Freshwater 2020

As noted above, the proposed electricity line route passes areas classified as salt marsh which may meet the definition of ‘natural inland wetlands’ under the National Policy Statement for Freshwater Management 2020.

Resource consents have therefore been applied for separately and concurrently from Northland Regional Council under Regulation 45 of the National Environmental Standard for Freshwater as a precautionary measure. Given this, assessment and consideration of this matter is not undertaken further within this application.

5.3 Activity Status

Overall, this application is for a **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 relates to the installation of a new 11kV overhead electricity line and supporting pole structures within the road reserve of Kohukohu Road, as well as the installation of a new 2W HV line and supporting pole structures at 754 Kohukohu Road. Parts of the route are located adjacent to or above the CMA, albeit still within the road reserve.

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 there is no permitted baseline as the installation of a new line within the General Coastal Zone and Conservation Zone requires resource consent as both a controlled activity and discretionary activity. Notwithstanding, the installation of some of the route is within the Rural Production Zone which is provided for as a permitted activity.

- 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.

Edward John Guest & Gail Marie Guest as the owners/occupiers of 754 Kohukohu Road, Kohukohu have provided their written approval to the proposal (refer **Appendix 6**) and therefore adverse effects on them have been disregarded and no other written approvals have been sought. Top Energy will obtain approval from the landowner of Kohukohu Road (Far North District Council) prior to undertaking the works.

The sections below set out an assessment in accordance with section 95D, including identification of adjacent properties, 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 3** below, and include:

- Parcel ID 4949130, 1191 Kohukohu Road, Kohukohu, 1197 Kohukohu Road, Kohukohu, Section 33-34 Block VI Mangamuka Survey District, Section 63 Block VI Mangamuka Survey District, Section 54-56 Block VI Mangamuka Survey District, Lot 53A DP 7199, 626 Kohukohu Road, Kohukohu, 637 Kohukohu Road, Kohukohu (East); and
- Parcel ID 5265846, Section 44 and Section 49 Block VI 653/1601 Mangamuka Survey District, Te Karae 2C Lot 25A Block, Section 45-47 Block VI Mangamuka Survey District, Parcel ID 5105210, Part Te Karae No.2 B Block, Te Karae No.2 B Block, Parcel ID 5225011, Lot 1 DP 611200, 776 Kohukohu Road, Kohukohu, Lot 25 DP 7199 and Section 50-51 Block VI Mangamuka Survey District, Lot 25 DP 7199 and Section 50-51 Block VI Mangamuka Survey District, Lot 7-11 and Lot 14 DP 7199, Parcel ID 5265350, 872 Kohukohu Road, Kohukohu, Parcel ID 5265325, 948 Kohukohu Road, Kohukohu, Part Lot 2 DP 7199 and Part Lot 2 DP 7201, 954 Kohukohu Road, Kohukohu, Part Lot 1 DP 7199, 1052 Kohukohu Road, Kohukohu, 1056 Kohukohu Road, Kohukohu, 205 Smith Deviation Road, Kohukohu, Pikiparia 3C Block, Part Pikiparia 2B Block and Section 113 Block X Mangamuka Survey District, and Part Oriwa Pa Block (West).

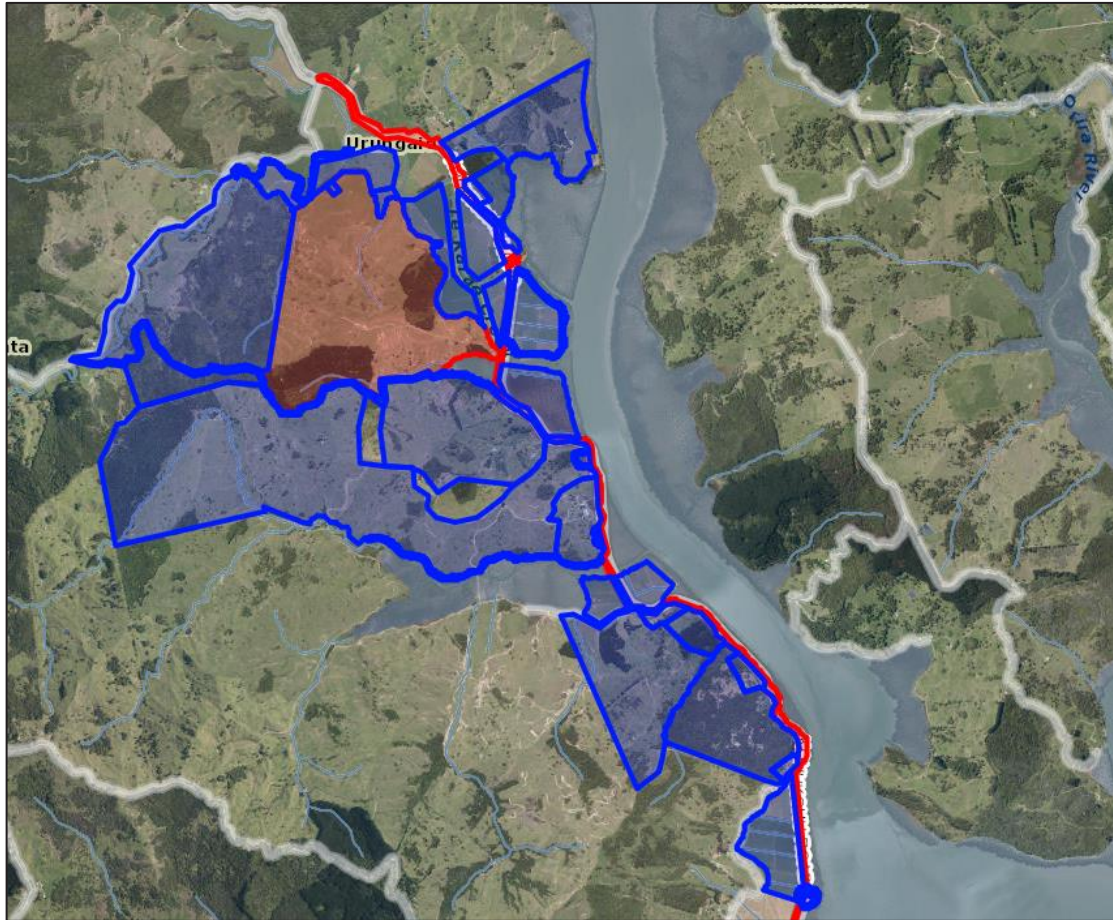


Figure 3: Adjacent properties in relation to subject site. Source: Emap.

6.4 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:

- Visual and Landscape Effects;
- Archaeological Effects;
- Construction Activities; and
- Māori Cultural Values.

These matters are set out and discussed below.

6.4.1 Visual and Landscape Effects

The proposed overhead electricity line and supporting pole structures will be located within the road reserve of Kohukohu Road. The necessity of this location for the proposed infrastructure relates to the need for infrastructure to follow the road corridor for optimal connectivity and access.

Despite the majority of the proposed route being located adjacent to the CMA (Mangamuka River), and one section of it being located above CMA, it remains within the formed road corridor which is observed to be a modified environment that contains existing infrastructure such as roading, signage and other utilities. Additionally, the CMA of relevance to this proposal is also not subject

to any mapped outstanding landscape features or outstanding natural features overlays within or adjacent to the project area.

The proposed infrastructure is considered modest in scale and consistent with typical roadside utilities. Materials used for the poles and lines will be standard utility-grade, and will include neutral and non-reflective pole materials, assisting with visual integration. The proposed infrastructure will be linear and vertical, with poles spaced at regular intervals. This will minimise potential effects of visual clutter within the surrounding environment.

While the proposal will be introducing new visual elements into the landscape, the presence of electricity lines and power poles within the road reserve is a common and expected feature for most viewers, particularly those travelling by vehicle, for whom views are typically brief and transitory. As such, this type of infrastructure in this location is not considered unusual. Moreover, placing it within the road corridor is often regarded as the least disruptive option, as it is likely to avoid impacts on private land, ecological areas and culturally sensitive sites.

The proposal involves minimal earthworks and disturbance. While some vegetation clearance is required for the installation of the new electricity line and power poles, this will be limited to that which is necessary to meet the operational and functional requirements of the infrastructure and will predominantly occur within the existing road reserve (outside of the CMA). Further, the majority of existing vegetation will be retained which will help to integrate the proposal into the existing landscape context.

The proposal also involves the decommissioning of an old overhead line and supporting pole structures on adjacent farmland. This will involve removal of wire from existing poles and removal of most poles from private land and the CMA resulting in an overall net benefit for the following reasons:

- A reduction in visual clutter;
- Potential enhancement of natural character within the coastal marine area;
- Improvement in landscape coherence as the new alignment will create a more orderly and predictable landscape pattern within the road reserve; and
- Restoration of amenity for land owners of private properties, contributing to a more open and uncluttered landscape.

Overall, taking into account the modified receiving environment and the modest scale and nature of the proposed infrastructure, any adverse visual and landscape effects of the proposal are considered to be less than minor.

6.4.2 Archaeological Effects

A search of ArchSite has identified that there are no identified archaeological sites located within the road reserve of Kohukohu Road. While there is an identified archaeological site (005/57 – Oriwa Pa) located adjacent to Kohukohu Road, this is not located within the site of the proposed works and will not be impacted by this proposal.

Notwithstanding, Top Energy have engaged Northland Archaeological Research Limited (**NAR**) to review the proposed plan of works for this proposal (refer to **Appendix 7** for an Archaeological Survey and Assessment Report).

After undertaking a site visit, NAR has subsequently advised that the proposed plan of works is suitable and that the works can proceed under the Accidental Discovery Protocol.

6.4.3 Construction Activities

The proposal will involve minimal earthworks associated with excavations for the power pole foundation holes within the road reserve alongside Kohukohu Road. The construction works are estimated to be undertaken over approximately ten weeks.

The requisite traffic management will be implemented at each pole site for the duration of the proposed works. There is sufficient space within the road reserve to provide for parking for construction vehicles.

The volume of earthworks has been outlined in Section 4 above and only minor land disturbance is proposed.

It is also anticipated that the construction works will achieve compliance with the FNDP noise and vibration standards having regard to the nature of the proposal. Any adverse effects associated with noise and vibration are considered to be temporary in nature, and are considered to be less than minor.

Therefore, while there may be some minor soil disturbance due to construction activities, these are in keeping with the permitted thresholds of the FNDP.

Overall, effects from construction activities are considered to be less than minor on the wider environment.

6.4.4 Māori Cultural Values

The proposed works are not located within any properties or sites that are mapped as containing sites or areas of significance to Māori in the FNDP.

It is acknowledged that some sections of the proposed infrastructure may be located within mapped statutory acknowledgement area, and that this area in proximity to the coast can hold importance to tangata whenua.

In terms of potential effects on waterways or the CMA, the physical works associated with installing the proposed infrastructure is considered less than minor in relation to erosion and sediment control and vegetation management measures. The proposed infrastructure will also not impact access to the coastal marine area. In terms of visual effects, whilst the coastal marine area is observed to extend into parts of the road reserve of Kohukohu Road, this is considered a modified environment, where such infrastructure is typically located and seen.

Notwithstanding this, and as discussed further in Section 12.1, direct engagement has been undertaken with several mana whenua groups. While no responses have been received from the majority of these groups, a phone call conversation was held with Ms Dallas King, kaikōrero for Ngāti Kaharau and Ngāti Hau Hapū in Hokianga. The proposed works were discussed and Ms King advised that she understands the extent of the proposed works and advised that the project is to be supported.

Taking the above into account, there are no known adverse effects on scheduled cultural heritage, sites of significance to Māori, or Māori cultural values.

6.5 Summary of Effects

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

6.6 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 (being on land, or adjacent to land, that is subject to a statutory acknowledgement area).

The above applies 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 obtained from the landowners at 754 Kohukohu Road, Kohukohu (refer **Appendix 6**).

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

7.3 Assessment of Effects on Persons

Adverse effects in relation to visual and landscape effects on persons are considered below.

Wider effects, such as visual and landscape, archaeological, construction activities and Māori cultural values effects were considered in Section 6.4 above, and considered to be less than minor.

Overall, adverse effects on persons at the adjacent properties will be less than minor in relation to visual and landscape effects for the following reasons:

- The proposed works will be located within a modified environment (the road reserve of Kohukohu Road) where this type of infrastructure is typically located and seen;

- The proposed infrastructure is considered modest in scale and consistent with typical roadside utilities. Materials used for the poles and lines will be standard utility-grade, and will include neutral and non-reflective pole materials, assisting with visual integration into the landscape; and
- The proposed infrastructure will be linear and vertical, with poles spaced at regular intervals. This will minimise potential effects of visual clutter within the surrounding environment.

7.3.1 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 visual and landscape effects. Wider effects were assessed in section 6.4 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 discretionary activity, section 104B of the Act states that a council:

- (a) may grant or refuse the application; and
- (b) if it grants the application, may impose conditions under section 108.

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

There are no relevant plan changes that would have a bearing on this application.

Therefore, it is considered that with respect to all matters that the proposal can be assessed against the FNDP provisions only.

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:

- This proposal will replace and upgrade the existing electricity network which presently has some of the worst feeders in terms of System Average Interruption Duration Index figures. The proposal will create a link between the Rangiahua, Horeke and South Road Feeders which serve some of the most remote and reliability-challenged areas in the Hokianga Region. This will bring stability, reliability and quality power supply to the Horeke, Hokianga, Kohukohu and Broadwood areas; and
- The existing overhead powerline and most of the powerpoles will be removed from private farmland and the CMA improving accessibility for ongoing maintenance, and likely also enhance the visual amenity of the environment.

Overall, it is considered that the proposal will have positive effects, and any actual and potential adverse effects on the environment of allowing the activity are less than minor.

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

10.1 Objectives and Policies of the New Zealand Coastal Policy Statement 2010

The purpose of the New Zealand Coastal Policy Statement (**NZCPS**) is to state policies in order to achieve the purpose of the RMA in relation to the coastal environment of New Zealand. It guides local councils on how to manage coastal resources – including the foreshore, seabed and coastal waters – by setting out specific objectives and policies for sustainable resource use, protection of natural values, and provision for communities' needs.

The following objectives and policies are relevant to the proposal:

- Objective 2 and Policy 13 seek to preserve the natural character, features and landscape values of the coastal environment;
- Objective 4 and Policy 19 seek to maintain and enhance public open space within the coastal environment by ensuring public access to the coast is retained and provided for; and
- Objective 6 recognises that the protection of the values of the coastal environment does not preclude use and development in appropriate places and forms within appropriate limits, and

that functionally some uses and development can only be located on the coast or in the marine area.

Assessment

With respect to the existing natural character and landscape areas of the Kohukohu area, there are a range of structures that are accepted in the wider environment. Further, there are no mapped outstanding natural features or landscapes in close proximity to the project area.

The proposed infrastructure will be largely located within the road reserve of Kohukohu Road which is seen as a modified environment. Overall, taking into account the modified receiving environment and the modest scale and nature of the proposed infrastructure, it is not considered that the proposal will detract from the existing natural character of the coastal environment.

The proposed infrastructure will not affect access to the coast.

Regarding demonstrating a functional need for some uses and development to be located on the coast or within the CMA, the new overhead line and pole structures will improve the electrical feeders for the area and need to follow the Kohukohu Road corridor to enable optimal connectivity and access.

Overall, and for the reasons outlined previously, it is considered that the proposal is in accordance with the relevant objectives and policies of the NZCPS.

10.2 Objectives and Policies of the Regional Policy Statement for Northland 2016

The Northland Regional Policy Statement (**RPS**) covers the management of natural and physical resources across the Northland Region. The provisions within the RPS give guidance at a higher planning level in terms of the significant regional issues. As such, it does not contain specific rules that trigger the requirement for consent but rather gives guidance to resource consent applications and the development of District Plans on a regional level.

With respect to regionally significant infrastructure, Objective 3.7 and Policy 5.3.2 recognise and provide for regionally significant infrastructure, which through its use of natural and physical resources can significantly enhance Northland's economic, cultural, environmental and social wellbeing.

Further, Objective 3.9 seeks that Northland's energy supplies are secure and reliable, and generation that benefits the region is supported, particularly when it uses renewable sources.

With respect to the coastal environment, Objective 3.14 and Policy 4.6.1 seek to protect and preserve the natural character of the coastal environment and protect significant indigenous biodiversity and habitats from inappropriate use and development.

Assessment

The proposed infrastructure is considered to be 'regionally significant infrastructure' as it comprises network electricity lines and associated infrastructure lines that constitute the sub-transmission network. Further, the proposal seeks to improve the security and reliability of power supply to Horeke, Hokianga, Kohukohu and Broadwood areas. Given this, the proposed infrastructure is anticipated and provided for within the coastal environment and CMA.

The proposed infrastructure will be largely located within the road reserve of Kohukohu Road which is seen as a modified environment. Overall, taking into account the modified receiving

environment and the modest scale and nature of the proposed infrastructure, it is not considered that the proposal will detract from the existing natural character of the coastal environment.

While the proposal will result in some indigenous vegetation clearance, the vegetation trimming/clearance is mostly confined to the road reserve, and will be limited to that which is necessary to meet the operational and functional requirements of the new infrastructure.

On this basis, it is considered that the proposal will be consistent with the relevant objectives and policies of the RPS.

10.3 Objectives and Policies of the Operative Far North District Plan

10.3.1 Coastal Environment

Objective 10.3.1 seeks to manage coastal areas in a manner that avoids adverse effects from subdivision, use and development. It also provides for adverse effects from subdivision, use or development to be remedied or mitigated where it is not practicable to avoid adverse effects, but it is appropriate for the development to proceed.

Policy 10.4.1 indicates that appropriate subdivision, use and development is where the activity generally:

- *Recognises and provides for those features and elements that contribute to the natural character of an area that may require preservation, restoration or enhancement; and*
- *Is in a location and of a scale and design that minimises adverse effects on the natural character of the coastal environment; and*
- *Has adequate services provided in a manner that minimises adverse effects on the coastal environment and does not adversely affect the safety and efficiency of the roading network; and*
- *Avoids, as far as practicable, adverse effects which are more than minor on heritage features, outstanding landscapes, cultural values, significant indigenous vegetation and significant habitats of indigenous fauna, amenity values of public land and waters and the natural functions and systems of the coastal environment; and*
- *Promotes the protection, and where appropriate restoration and enhancement, of areas of significant indigenous vegetation and significant habitats of indigenous fauna; and*
- *Recognises and provides for the relationship of Maori and their culture and traditions with their ancestral lands, water, sites, waahi tapu and other taonga; and*
- *Where appropriate provides for and, where possible, enhances public access to and along the coastal marine area; and*
- *Gives effect to the New Zealand Coastal Policy Statement and the Regional Policy Statement for Northland.*

Assessment

These matters have been comprehensively addressed under Section 10.1 and Section 10.2 above. The conclusions reached in those sections remain valid and are relied upon for the purposes of the assessment. Accordingly, it is not considered necessary to reassess these matters further here.

Objective 10.3.2 seeks to preserve, protect or enhance the natural character of the coastline and coastal environment, areas of significant indigenous vegetation and significant habitats of indigenous fauna, outstanding landscapes and natural features, the open space and amenity values of the coastal environment, and water quality and soil conservation.

Objective 10.3.6 seeks to minimise adverse effects from activities in the coastal environment that cross the coastal marine area boundary.

Policy 10.4.3 seeks that the ecological values of significant coastal indigenous vegetation and significant habitats are maintained in any subdivision, use or development in the coastal environment.

Policy 10.4.11 seeks to promote land use practices that minimise erosion and sediment run-off, and storm water and wastewater from catchments that have the potential to enter the coastal marine area.

Policy 10.4.12 seeks the minimisation of adverse effects of development on the natural character and amenity values of the coastal environment by:

- *The siting of buildings relative to the skyline, ridges, headlands and natural features;*
- *The number of buildings and intensity of development;*
- *The colour and reflectivity of buildings;*
- *The landscaping (including planting) of the site; and*
- *The location and design of vehicle access, manoeuvring and parking areas.*

Assessment

The majority of these matters have been comprehensively addressed under Section 10.1 and Section 10.2 above. The conclusions reached in those sections remain valid and are relied upon for the purposes of this assessment. Accordingly, it is not considered necessary to reassess these matters further here.

Regarding the section of the overhead line route that passes over the CMA, no physical structures will be placed within the CMA, and the project therefore avoids direct physical disturbance to coastal habitats and ecosystems, natural coastal processes and visual and landscape values. Appropriate erosion and sediment control measures will be employed through land disturbance activities for the installation of the power poles to minimise the likelihood of any sediment-laden discharges to the CMA.

Objective 10.3.3 seeks to engage effectively with Māori to ensure that their relationship with their culture and traditions and taonga is identified, recognised, and provided for.

Policy 10.4.8 seeks to avoid, remedy or mitigate adverse effects on the relationship of Māori and their culture and traditions with their ancestral lands, water, sites, waahi tapu and other taonga.

Assessment

Engagement has been undertaken with several mana whenua groups on this project under the Takutai Moana Act. Given this, it is considered that their relationship with their culture and traditions and taonga in the Hokianga region has been identified, recognised and provided for.

10.3.2 Indigenous Flora and Fauna

Objective 12.2.3.1 seeks to maintain and enhance the life supporting capacity of ecosystems and the extent and representativeness of the District's indigenous biological diversity.

Objective 12.2.3.2 seeks to provide for the protection of, and to promote the active management of areas of significant indigenous vegetation and significant habitats of indigenous fauna.

Policy 12.2.4.1 seeks that areas of significant indigenous vegetation and significant habitats of indigenous fauna be protected for the purpose of promoting sustainable management with attention being given to;

- (a) Maintaining ecological values;*
- (b) Maintaining quality and resilience;*
- (c) Maintaining the variety and range of indigenous species contributing to biodiversity;*
- (d) Maintaining ecological integrity; and*
- (e) Maintaining tikanga Maori in the context of the above.*

Policy 12.2.4.3 seeks that adverse effects on areas of significant indigenous vegetation and significant indigenous fauna are avoided, remedied or mitigated by:

- (a) Seeking alternatives to the disturbance of habitats where practicable;*
- (b) Managing the scale, intensity, type and location of subdivision, use and development in a way that avoids, remedies or mitigates adverse ecological effects;*
- (c) Ensuring that where any disturbance occurs it is undertaken in a way that, as far as practicable:*
 - (i) Minimises any edge effects;*
 - (ii) Avoids the removal of specimen trees;*
 - (iii) Does not result in linkages with other areas being lost;*
 - (iv) Avoids adverse effects on threatened species;*
 - (v) Minimises disturbance of root systems of remaining vegetation;*
 - (vi) Does not result in the introduction of exotic weed species or pest animals;*
- (d) Encouraging, and where appropriate, requiring active pest control and avoiding the grazing of such areas.*

Policy 12.2.4.4 provides for clearance of limited areas of indigenous vegetation.

Assessment

These matters have been comprehensively addressed under Section 10.1 and Section 10.2 above. The conclusions reached in those sections remain valid and are relied upon for the purposes of this assessment. Accordingly, it is not considered necessary to reassess these matters further here.

Furthermore, all indigenous vegetation clearance will be undertaken in accordance with the requirements of the relevant permitted activity rule in Chapter 12.2 of the FNDP.

10.3.3 Soils and Minerals

Objective 12.3.3.2 seeks to maintain the life supporting capacity of soils of the District.

Objective 12.3.3.3 seeks to avoid, remedy or mitigate adverse effects associated with soil excavation or filling.

Policy 12.3.4.1 seeks that the adverse effects of soil erosion are avoided, remedied or mitigated.

Policy 12.3.4.4 seeks that soil excavation and filling, and mineral extraction activities are designed, constructed and operated to avoid, remedy or mitigate adverse effects on people and the environment.

Assessment

These matters have been comprehensively addressed under Section 10.3.1 above. The conclusions reached in those sections remain valid and are relied upon for the purposes of this assessment. Accordingly, it is not considered necessary to reassess these matters further here.

Furthermore, all land disturbance activities will be undertaken in accordance with the requirement of the relevant permitted activity rule in Chapter 12.3 of the FNDP.

10.3.4 Lakes, Rivers, Wetlands and the Coastline

Objective 12.7.3.1 seeks to avoid, remedy or mitigate the adverse effects of subdivision, use and development on riparian margins.

Objective 12.7.3.5 seeks to avoid the adverse effects from inappropriate use and development on the coastline.

Policy 12.7.4.1 seeks that the effects of activities which will be generated by new structures on or adjacent to the surface of lakes, rivers and coastal margins be taken into account when assessing applications.

Policy 12.7.4.3 seeks that adverse effects of land use activities on the natural character and functioning of riparian margins and indigenous wetlands be avoided.

Policy 12.7.4.11 seeks that the extent of impervious surfaces be limited so as to restore, enhance and protect the natural character, and water quantity and quality of the coastline.

Assessment

These matters have been comprehensively addressed under Section 10.1 and Section 10.2 above. The conclusions reached in those sections remain valid and are relied upon for the purposes of this assessment. Accordingly, it is not considered necessary to reassess these matters further here.

10.3.5 Designations and Utility Services

Objective 17.2.2.1 seeks for utility services to be provided efficiently and effectively and in a manner consistent with the promotion of sustainable management of natural and physical resources.

Objective 17.2.2.2 seeks for utility services to be provided in a manner consistent with the nature and character of the local environment, operational needs and the cost and scale of facilities.

Objective 17.2.2.3 seeks that communication facilities and other utility services are established and designed in locations which avoid, remedy or mitigate any significant adverse visual effects to the maximum extent practicable.

Policy 17.2.4.2 seeks that any significant adverse effects of proposed utility services and radio communications on amenity values is avoided, remedied or mitigated.

Policy 17.2.4.3 seeks that provision be made to enable new/upgraded utility services to meet growth demand.

Policy 17.2.4.4 seeks that provision be made for utility services corridors (such as roads) and the co-siting of telecommunication and radio communication equipment where technically and commercially practicable.

Assessment

As mentioned above, the proposed infrastructure is considered to be 'regionally significant infrastructure' as it comprises network electricity lines and associated infrastructure lines that constitute the sub-transmission network. Further, the proposal seeks to improve the security and reliability of power supply to Horeke, Hokianga, Kohukohu and Broadwood areas. Given this, it is considered that provision for this new infrastructure should be made.

Overall, these matters have been comprehensively addressed under Section 10.1 and Section 10.2 above. The conclusions reached in those sections remain valid and are relied upon for the purposes of this assessment. Accordingly, it is not considered necessary to reassess these matters further here.

10.4 Summary

It is considered that the proposed development is generally in accordance with the objectives and policies of the relevant statutory planning documents.

11.0 Part 2 Matters

While it is not necessary to take recourse to Part 2 given that it has already been incorporated into the FNDP, we do so for completeness.

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 FNDP 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 Customary Marine Title Planning Documents

Clause 3(c) of Schedule 4 requires that if the activity is to occur in an area within the scope of a planning document prepared by a customary marine title group under section 85 of the Marine and Coastal Area (Takutai Moana) Act 2011, an assessment of the activity against any resource management matters set out in that planning document (for the purposes of section 104(2B)).

Section 85 of the Marine and Coastal Area (Takutai Moana) Act states that:

- (1) *A customary marine title group has a right to prepare a planning document in accordance with its tikanga.*
- (2) *The purposes of the planning document are*
 - (a) *to identify issues relevant to the regulation and management of the customary marine title area of the group; and*
 - (b) *to set out the regulatory and management objectives of the group for its customary marine title area; and*
 - (c) *to set out policies for achieving those objectives.*
- (3) *A planning document may include any matter that can be regulated under the enactments specified in subsection (5), including matters that are relevant to*
 - (a) *promoting the sustainable management of the natural and physical resources of the customary marine title area; and*
 - (b) *the protection of the cultural identity and historic heritage of the group.*
- (4) *A planning document may relate*
 - (a) *only to the customary marine title area of the group; or*
 - (b) *if it relates to areas outside the customary marine title area, only to the part of the common marine and coastal area where the group exercises kaitiakitanga.*
- (5) *The planning document may include only matters that may be regulated under*
 - (a) *the Conservation Act 1987 or the Acts listed in Schedule 1 of that Act;*
 - (b) *the Heritage New Zealand Pouhere Taonga Act 2014;*
 - (c) *the Local Government Act 2002;*
 - (d) *the Resource Management Act 1991.*

A number of parties have registered interest in the CMA in this location under the Takutai Moana Act. These claims are outstanding and still before the courts. Letters to each of these registered claimant groups have been sent and copies of the letters are enclosed as **Appendix 2**.

A phone call was received from Ms Dallas King, kaikōrero for Ngāti Kaharau and Ngāti Hau Hapū in Hokianga. The proposed works were discussed and Ms King advised that she understands the extent of the proposed works and advised that the project is to be supported.

The proposed works are mitigating any adverse effects by all construction, earthworks and vegetation clearance occurring outside of the CMA. Further, it is considered that the proposed infrastructure will be an improvement to the current situation.

13.0 Conclusion

The proposal involves the installation of a new 11kV overhead electricity line, including supporting concrete poles, within the road reserve of Kohukohu Road for a total length of 5.6km to provide for reliable reticulated electricity supply to the Kohukohu and Broadwood townships. The proposal also seeks to install a new 2W HV line and supporting pole structures, as well as to decommission an existing SWER overhead electricity line and pole structures at 754 Kohukohu Road, Kohukohu.

Based on the above report it is considered that:

- Public notification is not required as adverse effects in relation to visual and landscape effects, archaeological effects, construction activities and Māori cultural values are considered to be less than minor. There are also positive effects;
- Limited notification is not required as there are no parties or persons that are considered to be affected by minor or more than minor adverse effects;
- The proposal accords with the relevant FNDP 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 **NA58C/396**
Land Registration District **North Auckland**
Date Issued 19 August 1985

Prior References

NA1876/13 NA58C/395

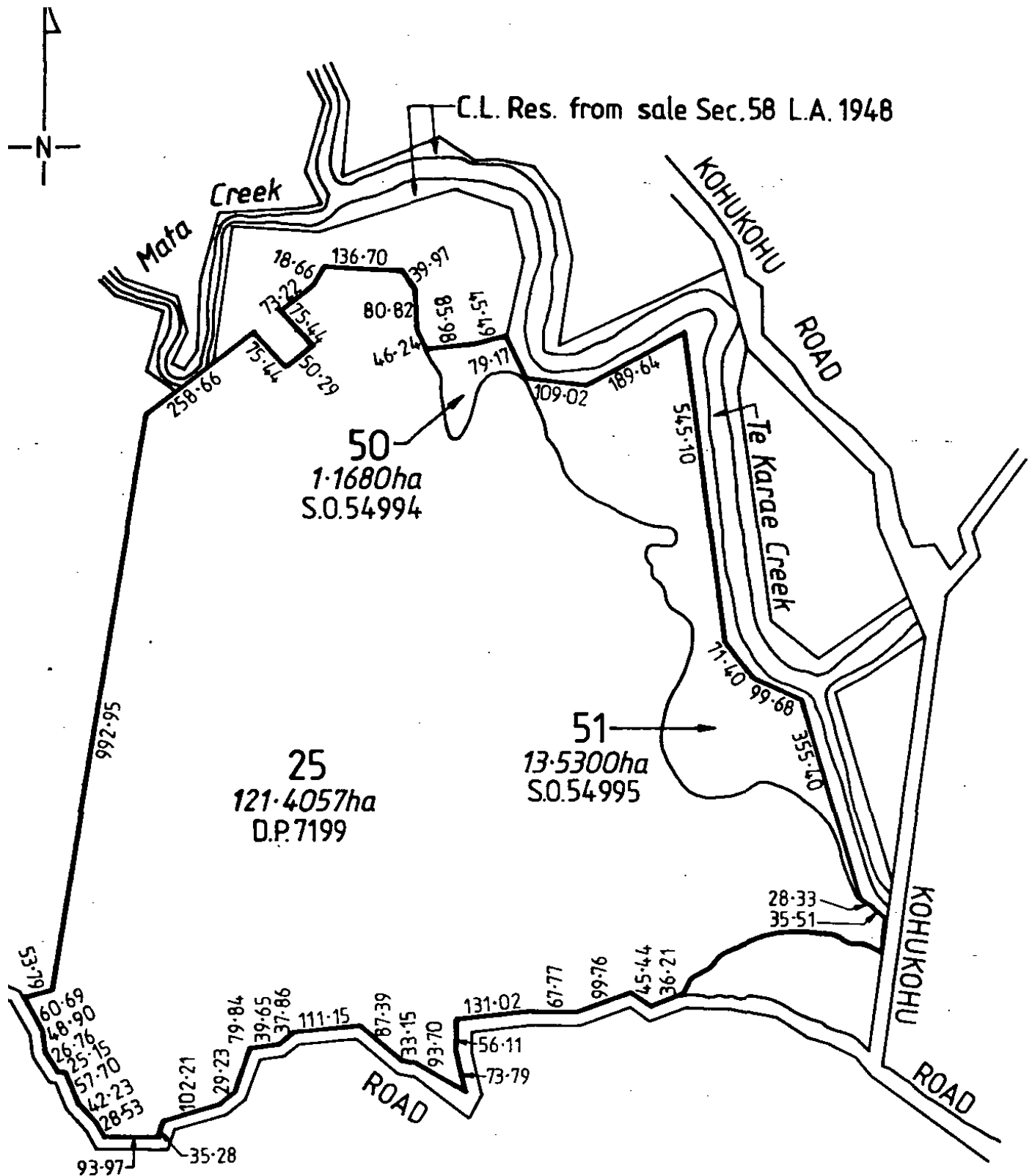
Estate Fee Simple
Area 136.1037 hectares more or less
Legal Description Lot 25 Deposited Plan 7199 and Section
50-51 Block VI Mangamuka Survey
District

Registered Owners

Gail Marie Guest and Edward John Guest

Interests

Subject to Section 8 Mining Act 1971 (Affects part)
Subject to Section 5 Coal Mines Act 1979 (Affects part)
Fencing Agreement in Transfer 648485 (Affects part)
D546564.3 Mortgage to The National Bank of New Zealand Limited - 4.10.2000 at 3:33 pm
11195754.1 Variation of Mortgage D546564.3 - 7.8.2018 at 4:39 pm
13380204.1 Notice pursuant to Section 195(2) Climate Change Response Act 2002 - 22.8.2025 at 6:11 pm



22 August 2025

Busby on behalf of Ngāti Kahu, Te Uriohina & Te Rarawa
Via email: charl@ranfurlychambers.co.nz

Tēnā koe Busby on behalf of Ngāti Kahu, Te Uriohina & Te Rarawa

Notice under Section 62(3) of the Marine and Coastal Area (Takutai Moana) Act 2011 - Resource Consent Applications for Installation of 11kV Overhead Line along Kohukohu Road – Road Reserve and Coastal Marine Area

We understand you have made an application for customary marine title over the Hokianga harbour under the Marine and Coastal Area (Takutai Moana) Act 2011. On behalf of the applicant, Top Energy, we wish to notify you of applications for resource consent to install a new 11kV Overhead Line and supporting pole structures within the road reserve of Kohukohu Road, Kohukohu. The majority of the proposed route will run adjacent to the coastal marine area, with one section crossing over a stream within the coastal marine area. Top Energy therefore seek your views in respect of the applications.

Scope of the Application

The existing Single Wire Earth Return (SWER) overhead electricity line located within private farmland and bush adjacent to Kohukohu Road presently contains some of the worst feeders in terms of System Average Interruption Duration Index figures. The current state of the existing electricity infrastructure represents a significant electricity network risk and introduces operational constraints if any asset or part of the line were to fail.

Additionally, the existing overhead electricity line infrastructure is discontinuous, with coverage limited to isolated sections adjacent to Kohukohu Road. This segmented configuration does not provide full electrical connectivity across the entire route, and the proposal is therefore seeking to replace and upgrade this existing infrastructure with a new 3phase 11kv conductor to ensure consistent and reliable electricity distribution in the Hokianga Region.

This proposal seeks to create a link between the Rangiahua, Horeke and South Road Feeders which serve some of the most remote and reliability-challenged areas in the Hokianga Region. This will bring stability, reliability and quality power supply to the Horeke, Hokianga, Kohukohu and Broadwood areas.

The proposal is to remove the existing overhead line and supporting poles from multiple private land holdings adjacent to Kohukohu Road, and install a new 11kV overhead electricity line, including supporting poles within the road reserve of Kohukohu Road, for a total length of 5.6km. The majority of the proposed route will run adjacent to the coastal marine area, with one section crossing over a stream within the coastal marine area.

The general location of the proposed works is shown in **Figure 1** below. Further detail of the proposed route is set out in the plans in **Attachment 1** to this letter.



Figure 1: Locality plan. Red line is the proposed area of Kohukohu Road; Dark blue shading is the General Coastal Zone, Light blue shading is the Coastal Marine Area, Light green shading is the Rural Production Zone, Lime Green shading is the Conservation Zone.

Under the Operative Far North District Plan (**FNDP**), the proposal requires and overall Discretionary activity resource consent pursuant to the following rules:

- Rule 12.7.6.3 – The proposed 11kV electricity line route will be located within 30m of the coastal marine area – Discretionary Activity;
- Rule 17.2.6.2 – A section of the proposed 11kV electricity line route will be located within the General Coastal Zone – Controlled Activity; and
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Under the Proposed Regional Plan for Northland October 2023 (**PRP**), the proposal requires Discretionary activity consent pursuant to Rule C.1.1.20 for the placement of a cable over the coastal marine area. The location of the area where the cable will be located over the coastal marine area is shown in **Figure 2** below.



Figure 2: Map showing the General Marine Zone and Route extent crossing over the Coastal Marine Area.

Details of the application include:

- Installation of a 11kV overhead electricity line, and supporting pole structures over a total length of 5.6km, creating a link between the Rangiahua, Horeke and South Road Feeders.
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We would be grateful if you could please share any views you may have on the proposal by **5 September 2025**.

For further details regarding the nature of the application or if you have any questions or views in respect of the application, please contact us on the below details.

Yours sincerely | Nāku noa, nā

Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Collier on behalf of Ngāti Kawau & Te Waiariki Kororā

Via email: mason@phoenixlaw.expert

Tēnā koe Collier on behalf of Ngāti Kawau & Te Waiariki Kororā

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Yours sincerely | Nāku noa, nā

Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Hapū Patutoka, Tahawau Whānau Pari, Te Hokokena Tāwhiu
Via email: mdtekani@gmail.com

Tēnā koutou Hapū Patutoka, Tahawau Whānau Pari, Te Hokokena Tāwhiu

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Yours sincerely | Nāku noa, nā

Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Hokianga Hapū

Via email: danielwatkinsbarrister@watkinslaw.nz

Tēnā koutou Hokianga Hapū

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Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Ngāpuhi Nui Tonu (Matawhaorua Marae)

Via email: jrrk999@yahoo.com

Tēnā koutou Ngāpuhi Nui Tonu (Matawhaorua Marae)

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22 August 2025

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Via email: jrrk999@yahoo.com

Tēnā koutou Ngāpuhi Nui Tonu (Taiao Marae)

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Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Ngāpuhi Nui Tonu (Te Kotahitanga Marae)

Via email: jrrk999@yahoo.com

Tēnā koutou Ngāpuhi Nui Tonu (Te Kotahitanga Marae)

Notice under Section 62(3) of the Marine and Coastal Area (Takutai Moana) Act 2011 - Resource Consent Applications for Installation of 11kV Overhead Line along Kohukohu Road – Road Reserve and Coastal Marine Area

We understand you have made an application for customary marine title over the Hokianga harbour under the Marine and Coastal Area (Takutai Moana) Act 2011. On behalf of the applicant, Top Energy, we wish to notify you of an application for resource consent to install a new 11kV Overhead Line and supporting pole structures within the road reserve of Kohukohu Road, Kohukohu. The majority of the proposed route will run adjacent to the coastal marine area, with one section crossing over a stream within the coastal marine area. Top Energy therefore seek your views in respect of the application.

Scope of the Application

The existing Single Wire Earth Return (SWER) overhead electricity line located within private farmland and bush adjacent to Kohukohu Road presently contains some of the worst feeders in terms of System Average Interruption Duration Index figures. The current state of the existing electricity infrastructure represents a significant electricity network risk and introduces operational constraints if any asset or part of the line were to fail.

Additionally, the existing overhead electricity line infrastructure is discontinuous, with coverage limited to isolated sections adjacent to Kohukohu Road. This segmented configuration does not provide full electrical connectivity across the entire route, and the proposal is therefore seeking to replace and upgrade this existing infrastructure with a new 3phase 11kv conductor to ensure consistent and reliable electricity distribution in the Hokianga Region.

This proposal seeks to create a link between the Rangiahua, Horeke and South Road Feeders which serve some of the most remote and reliability-challenged areas in the Hokianga Region. This will bring stability, reliability and quality power supply to the Horeke, Hokianga, Kohukohu and Broadwood areas.

The proposal is to remove the existing overhead line and supporting poles from multiple private land holdings adjacent to Kohukohu Road, and install a new 11kV overhead electricity line, including supporting poles within the road reserve of Kohukohu Road, for a total length of 5.6km. The majority of the proposed route will run adjacent to the coastal marine area, with one section crossing over a stream within the coastal marine area.

The general location of the proposed works is shown in **Figure 1** below. Further detail of the proposed route is set out in the plans in **Attachment 1** to this letter.



Figure 1: Locality plan. Red line is the proposed area of Kohukohu Road; Dark blue shading is the General Coastal Zone, Light blue shading is the Coastal Marine Area, Light green shading is the Rural Production Zone, Lime Green shading is the Conservation Zone.

Under the Operative Far North District Plan (**FNDP**), the proposal requires and overall Discretionary activity resource consent pursuant to the following rules:

- Rule 12.7.6.3 – The proposed 11kV electricity line route will be located within 30m of the coastal marine area – Discretionary Activity;
- Rule 17.2.6.2 – A section of the proposed 11kV electricity line route will be located within the General Coastal Zone – Controlled Activity; and
- Rule 17.2.6.4 – A section of the proposed 11kV electricity line route will be located within the Conservation Zone – Discretionary Activity.

Under the Proposed Regional Plan for Northland October 2023 (**PRP**), the proposal requires Discretionary activity consent pursuant to Rule C.1.1.20 for the placement of a cable over the coastal marine area. The location of the area where the cable will be located over the coastal marine area is shown in **Figure 2** below.



Figure 2: Map showing the General Marine Zone and Route extent crossing over the Coastal Marine Area.

Details of the application include:

- Installation of a 11kV overhead electricity line, and supporting pole structures over a total length of 5.6km, creating a link between the Rangiahua, Horeke and South Road Feeders.
- Small scale earthworks for each power pole foundation hole resulting in a cut of 0.6m³ and a fill of 0.55m³, at a depth of 1.8m below ground level. All excavations will be reinstated with existing material.
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We would be grateful if you could please share any views you may have on the proposal by **5 September 2025**.

For further details regarding the nature of the application or if you have any questions or views in respect of the application, please contact us on the below details.

Yours sincerely | Nāku noa, nā

Barker & Associates Limited



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Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Ngāpuhi Nui Tonu-Kota-toka-tutaha-moana o Whāingaroa

Via email: info@bekindbeauty.co.nz

Tēnā koutou Ngāpuhi Nui Tonu-Kota-toka-tutaha-moana o Whāingaroa

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Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Ngāti Hauā ki Te Rarawa
Via email: kawariki@xtra.co.nz

Tēnā koutou Ngāti Hauā ki Te Rarawa

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027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Ngāti Kaharau me Ngāti Hau Hapū ki Ōmanaia
Via email: Williams.king@live.com

Tēnā koutou Ngāti Kaharau me Ngāti Hau Hapū ki Ōmanaia

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22 August 2025

Ngāti Kawau te Kōtuku, Te Uri o Te Aho, Ngāti Kurī, Te Waiariki Kororā ngā Hapū o Ngāpuhi-Nui-Tonu
Via email: mason@phoenixlaw.expert

Tēnā koutou Ngāti Kawau te Kōtuku, Te Uri o Te Aho, Ngāti Kurī, Te Waiariki Kororā ngā Hapū o Ngāpuhi-Nui-Tonu

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22 August 2025

Ngāti Korokoro Trust on behalf of Ngā Hapū o Te Wahapū o Hokianga nui a Kupe

Via email: alisha@dixonandcolawyers.com

Tēnā koutou Ngāti Korokoro Trust on behalf of Ngā Hapū o Te Wahapū o Hokianga nui a Kupe

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22 August 2025

Te Hikutū Whānau & Hapū

Via email: eve@oranganuilegal.com

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Figure 1: Locality plan. Red line is the proposed area of Kohukohu Road; Dark blue shading is the General Coastal Zone, Light blue shading is the Coastal Marine Area, Light green shading is the Rural Production Zone, Lime Green shading is the Conservation Zone.

Under the Operative Far North District Plan (**FNDP**), the proposal requires and overall Discretionary activity resource consent pursuant to the following rules:

- Rule 12.7.6.3 – The proposed 11kV electricity line route will be located within 30m of the coastal marine area – Discretionary Activity;
- Rule 17.2.6.2 – A section of the proposed 11kV electricity line route will be located within the General Coastal Zone – Controlled Activity; and
- Rule 17.2.6.4 – A section of the proposed 11kV electricity line route will be located within the Conservation Zone – Discretionary Activity.

Under the Proposed Regional Plan for Northland October 2023 (**PRP**), the proposal requires Discretionary activity consent pursuant to Rule C.1.1.20 for the placement of a cable over the coastal marine area. The location of the area where the cable will be located over the coastal marine area is shown in **Figure 2** below.



Figure 2: Map showing the General Marine Zone and Route extent crossing over the Coastal Marine Area.

Details of the application include:

- Installation of a 11kV overhead electricity line, and supporting pole structures over a total length of 5.6km, creating a link between the Rangiahua, Horeke and South Road Feeders.
- Small scale earthworks for each power pole foundation hole resulting in a cut of 0.6m³ and a fill of 0.55m³, at a depth of 1.8m below ground level. All excavations will be reinstated with existing material.
- Some vegetation clearance will be required for the installation of the new overhead electricity line and supporting pole structures. This will involve the clearance of overhanging tree branches and the trimming/removal of undergrowth and trees encroaching the new overhead electricity line.
- Decommissioning the existing overhead line which will involve removal of wire from poles and removal of most poles (except those located in vegetated areas and the coastal marine area).

We would be grateful if you could please share any views you may have on the proposal by **5 September 2025**.

For further details regarding the nature of the application or if you have any questions or views in respect of the application, please contact us on the below details.

Yours sincerely | Nāku noa, nā

Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Te Kaunihere Māori o Te Tai Tokerau

Via email: rihari.takuira@gmail.com

Tēnā koutou Te Kaunihere Māori o Te Tai Tokerau

Notice under Section 62(3) of the Marine and Coastal Area (Takutai Moana) Act 2011 - Resource Consent Applications for Installation of 11kV Overhead Line along Kohukohu Road – Road Reserve and Coastal Marine Area

We understand you have made an application for customary marine title over the Hokianga harbour under the Marine and Coastal Area (Takutai Moana) Act 2011. On behalf of the applicant, Top Energy, we wish to notify you of an application for resource consent to install a new 11kV Overhead Line and supporting pole structures within the road reserve of Kohukohu Road, Kohukohu. The majority of the proposed route will run adjacent to the coastal marine area, with one section crossing over a stream within the coastal marine area. Top Energy therefore seek your views in respect of the application.

Scope of the Application

The existing Single Wire Earth Return (SWER) overhead electricity line located within private farmland and bush adjacent to Kohukohu Road presently contains some of the worst feeders in terms of System Average Interruption Duration Index figures. The current state of the existing electricity infrastructure represents a significant electricity network risk and introduces operational constraints if any asset or part of the line were to fail.

Additionally, the existing overhead electricity line infrastructure is discontinuous, with coverage limited to isolated sections adjacent to Kohukohu Road. This segmented configuration does not provide full electrical connectivity across the entire route, and the proposal is therefore seeking to replace and upgrade this existing infrastructure with a new 3phase 11kv conductor to ensure consistent and reliable electricity distribution in the Hokianga Region.

This proposal seeks to create a link between the Rangiahua, Horeke and South Road Feeders which serve some of the most remote and reliability-challenged areas in the Hokianga Region. This will bring stability, reliability and quality power supply to the Horeke, Hokianga, Kohukohu and Broadwood areas.

The proposal is to remove the existing overhead line and supporting poles from multiple private land holdings adjacent to Kohukohu Road, and install a new 11kV overhead electricity line, including supporting poles within the road reserve of Kohukohu Road, for a total length of 5.6km. The majority of the proposed route will run adjacent to the coastal marine area, with one section crossing over a stream within the coastal marine area.

The general location of the proposed works is shown in **Figure 1** below. Further detail of the proposed route is set out in the plans in **Attachment 1** to this letter.



Figure 1: Locality plan. Red line is the proposed area of Kohukohu Road; Dark blue shading is the General Coastal Zone, Light blue shading is the Coastal Marine Area, Light green shading is the Rural Production Zone, Lime Green shading is the Conservation Zone.

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Under the Proposed Regional Plan for Northland October 2023 (**PRP**), the proposal requires Discretionary activity consent pursuant to Rule C.1.1.20 for the placement of a cable over the coastal marine area. The location of the area where the cable will be located over the coastal marine area is shown in **Figure 2** below.



Figure 2: Map showing the General Marine Zone and Route extent crossing over the Coastal Marine Area.

Details of the application include:

- Installation of a 11kV overhead electricity line, and supporting pole structures over a total length of 5.6km, creating a link between the Rangiahua, Horeke and South Road Feeders.
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Yours sincerely | Nāku noa, nā

Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

22 August 2025

Te Uri o Te Aho, Te Uri o te Aho ki Ōrira, Ngāti Kiore, Te Ihutai, Ngāti Toro, Ngāti Patutoka, Ngāti Te Reinga, Te Uri Kaiwhare, Te Māhurehure, Ngāti Pākau, Ngāti Te Rauwawe, Māhuri Marae Whānau, Hokianga o Ngā Hapū Whānau Taiwhenua

Via email: danielwatkinsbarrister@watkinslaw.nz

Tēnā koutou Te Uri o Te Aho, Te Uri o te Aho ki Ōrira, Ngāti Kiore, Te Ihutai, Ngāti Toro, Ngāti Patutoka, Ngāti Te Reinga, Te Uri Kaiwhare, Te Māhurehure, Ngāti Pākau, Ngāti Te Rauwawe, Māhuri Marae Whānau, Hokianga o Ngā Hapū Whānau Taiwhenua

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Yours sincerely | Nāku noa, nā

Barker & Associates Limited



Moana Schoffa

Senior Planner

027 329 3900 | MoanaS@barker.co.nz

CONSTRUCTION DETAILS – SHEET 1

POLE No.	KOHUKOHU SWER REPLACEMENT – STAGE 3
412743	RETAIN 412743
112744 (T05041)	RETAIN 112744 30°10'40" DEFLECTION ANGLE-REMODEL EXIST DESIGN
PS1	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS2	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS3	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS4	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS5	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS6	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS7	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS8	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS9	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS10	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS11	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS12	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS13	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS14	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS15	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS16	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL 2w TEE-OFF USE 2000x100x100 XARMS INSTALL BREAST & HEEL BLOCKS
PS16A	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL HEEL BLOCK, INSTALL 1 x M32 SCREW ANCHOR (SIDE STAY)
PS16B	INSTALL 11.0m BUSCK (END TERM) & USE 2000x100x100 WOOD XARMS INSTALL HEEL BLOCK, INSTALL NEW 2PH 15kVA TRANSFORMER INSTALL 1 x M32 SCREW ANCHOR (BACK STAY)
PS17	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCK
PS18	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS19	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS20	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS21	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREAST & HEEL BLOCKS

KEY



POLE



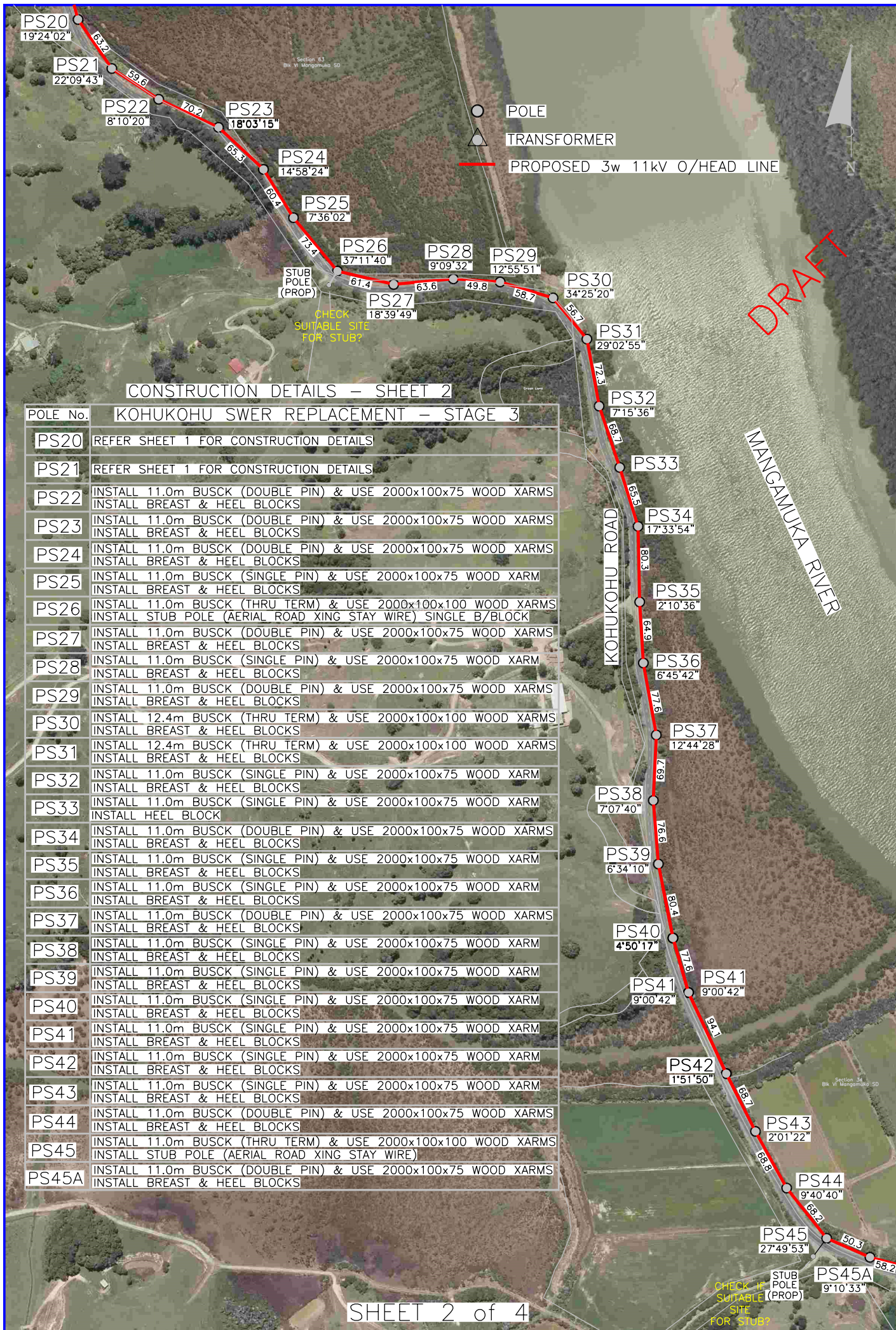
TRANSFORMER

— PROPOSED 3w 11kV O/HEAD LINE

- - - EXISTING 3w 11kV O/HEAD LINE

- - - EXISTING SWER 1w LINE

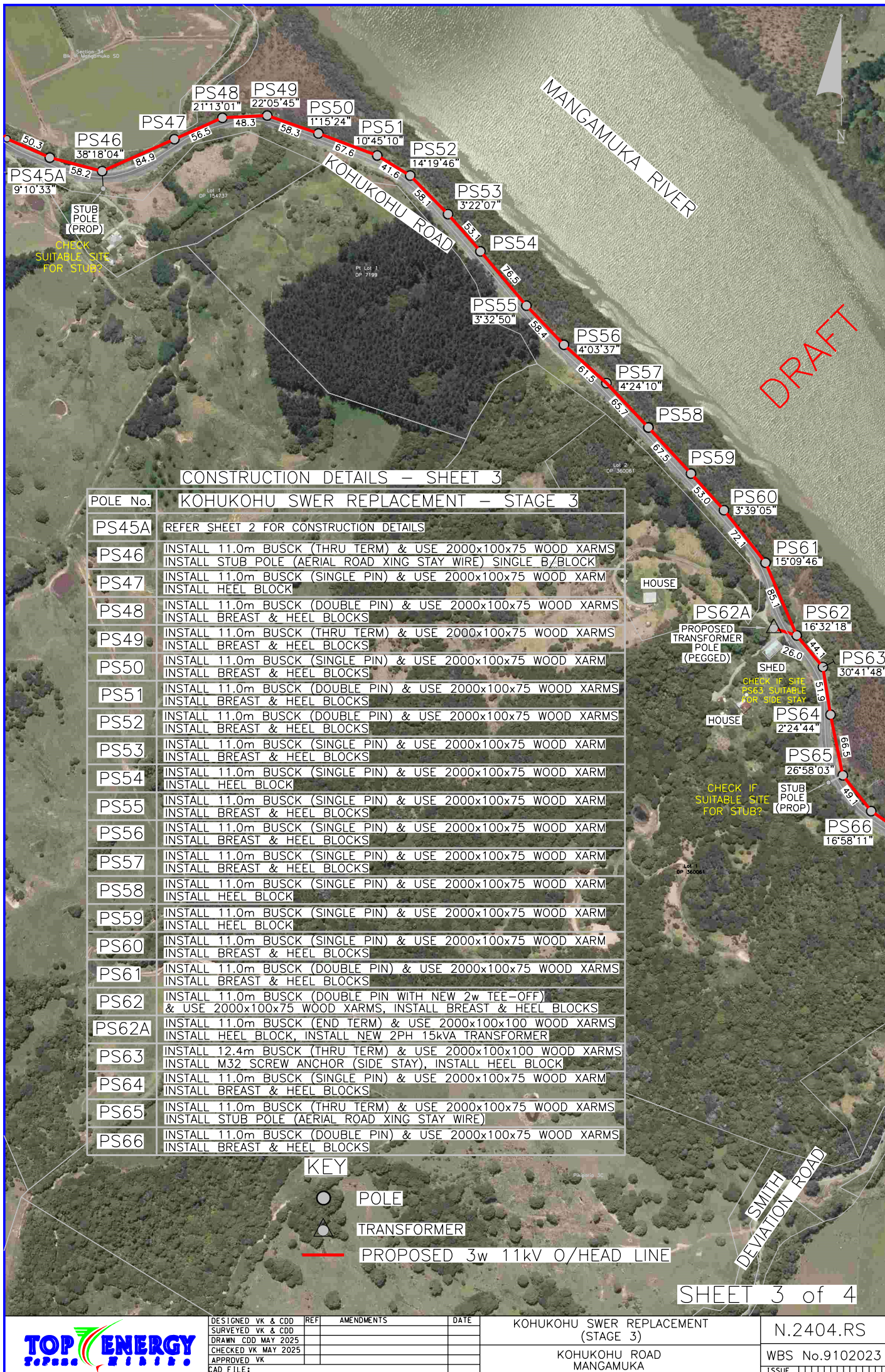
SHEET 1 of 4



CONSTRUCTION DETAILS – SHEET 2

POLE No.	KOHUKOHU SWER REPLACEMENT – STAGE 3
PS20	REFER SHEET 1 FOR CONSTRUCTION DETAILS
PS21	REFER SHEET 1 FOR CONSTRUCTION DETAILS
PS22	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS23	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS24	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS25	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS26	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS27	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS28	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS29	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS30	INSTALL 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS31	INSTALL 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS32	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS33	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS34	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS35	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS36	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS37	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS38	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS39	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS40	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS41	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS42	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS43	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS44	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS45	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE)
PS45A	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS

SHEET 2 of 4



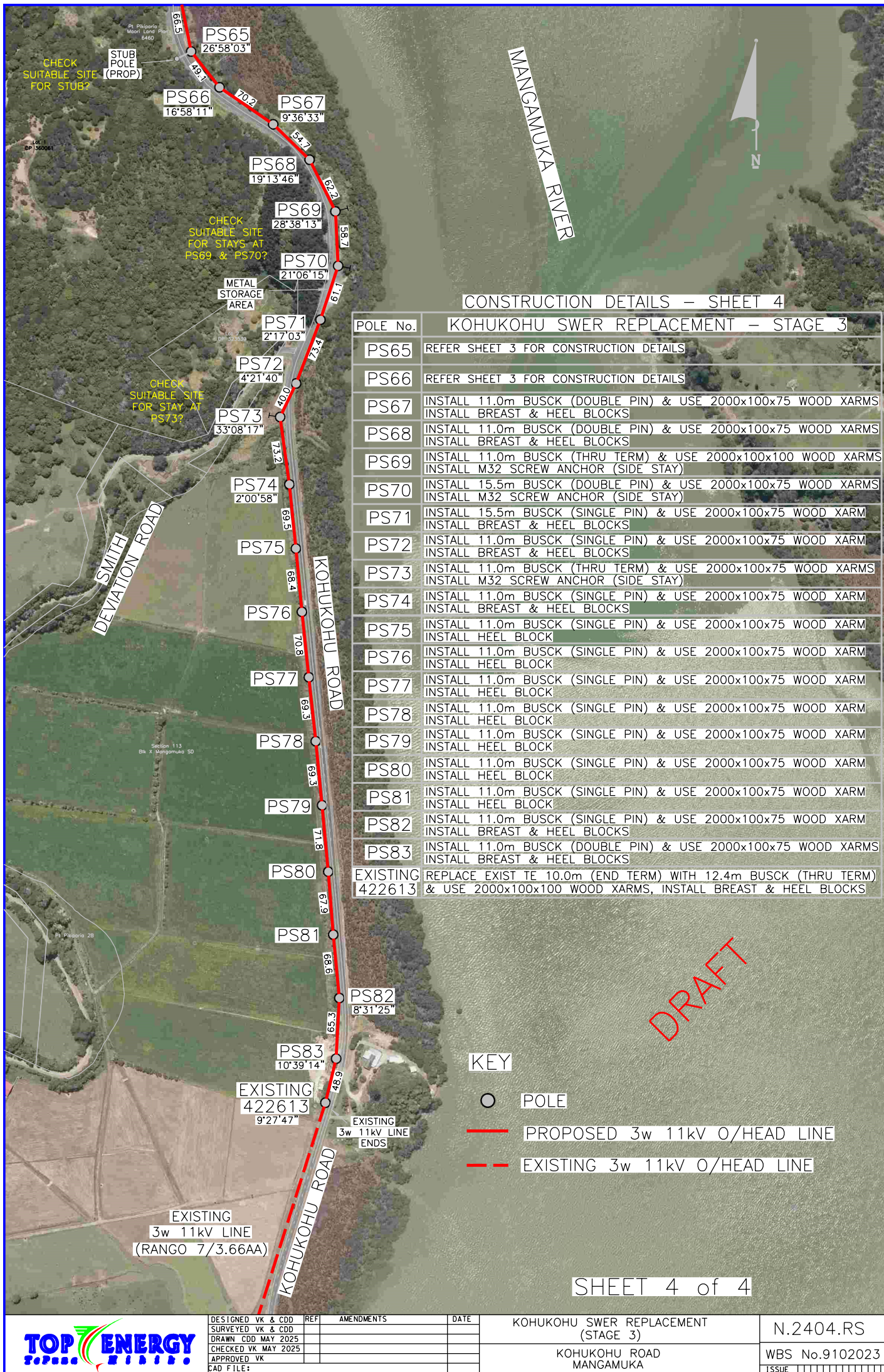
CONSTRUCTION DETAILS – SHEET 3

POLE No.	KOHUKOHU SWER REPLACEMENT – STAGE 3
PS45A	REFER SHEET 2 FOR CONSTRUCTION DETAILS
PS46	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS47	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS48	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS49	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS50	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS51	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS52	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS53	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS54	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS55	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS56	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS57	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS58	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS59	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS60	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS61	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS62	INSTALL 11.0m BUSCK (DOUBLE PIN WITH NEW 2w TEE-OFF) & USE 2000x100x75 WOOD XARMS, INSTALL BREAST & HEEL BLOCKS
PS62A	INSTALL 11.0m BUSCK (END TERM) & USE 2000x100x100 WOOD XARMS INSTALL HEEL BLOCK, INSTALL NEW 2PH 15kVA TRANSFORMER
PS63	INSTALL 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY), INSTALL HEEL BLOCK
PS64	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS65	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE)
PS66	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS

KEY

- POLE
- TRANSFORMER
- PROPOSED 3w 11kV O/HEAD LINE

SHEET 3 of 4



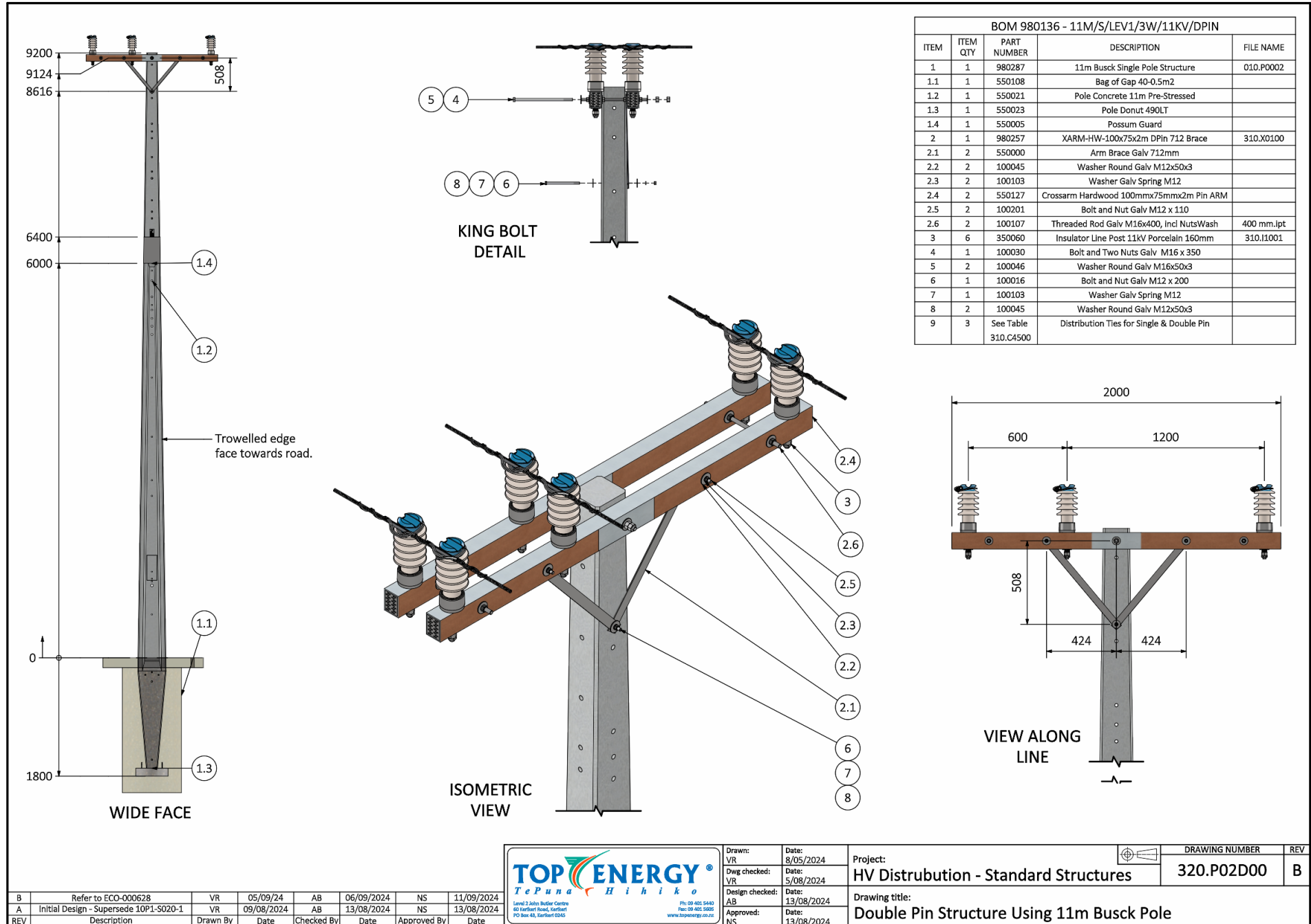
CONSTRUCTION DETAILS – SHEET 4

POLE No.		KOHUKOHU SWER REPLACEMENT – STAGE 3
PS65		REFER SHEET 3 FOR CONSTRUCTION DETAILS
PS66		REFER SHEET 3 FOR CONSTRUCTION DETAILS
PS67		INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS68		INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS69		INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY)
PS70		INSTALL 15.5m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY)
PS71		INSTALL 15.5m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS72		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS73		INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY)
PS74		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS75		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS76		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS77		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS78		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS79		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS80		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS81		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS82		INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS83		INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
EXISTING 422613		REPLACE EXIST TE 10.0m (END TERM) WITH 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS, INSTALL BREAST & HEEL BLOCKS

KEY

- POLE
- PROPOSED 3w 11kV O/HEAD LINE
- - - EXISTING 3w 11kV O/HEAD LINE

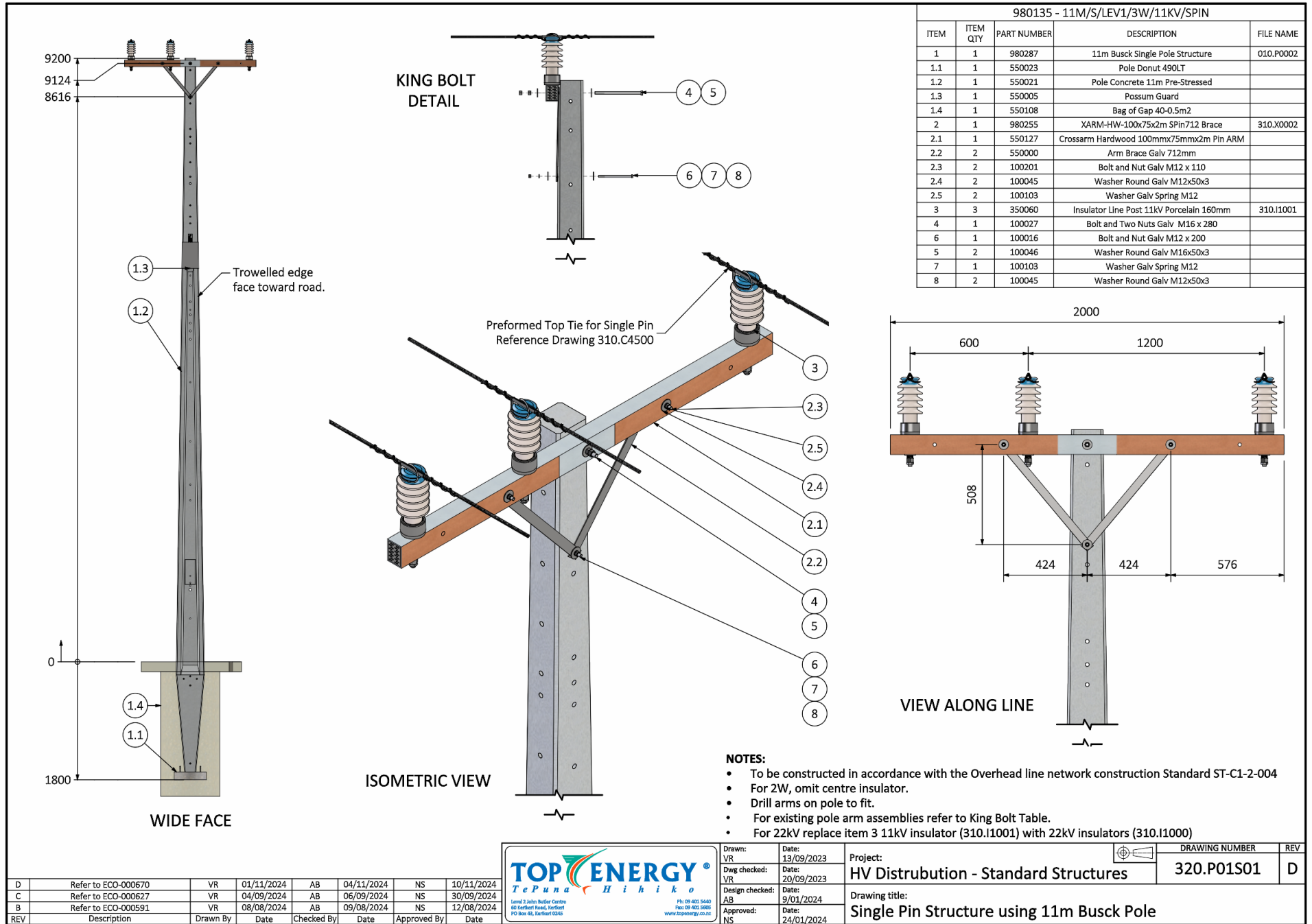


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UNAUTHORISED REPRODUCTION PROHIBITED.D:\Vault\W5\Drawings\01 - Network CAD\0 - Overhead\3. HV Distribution
(11kV - 22kV)\20. Standard Structures\P. Pole Head\320.P02D00\320.P02D00.dwg

TO BE REISSUED 30 DAYS AFTER: 14/01/2025
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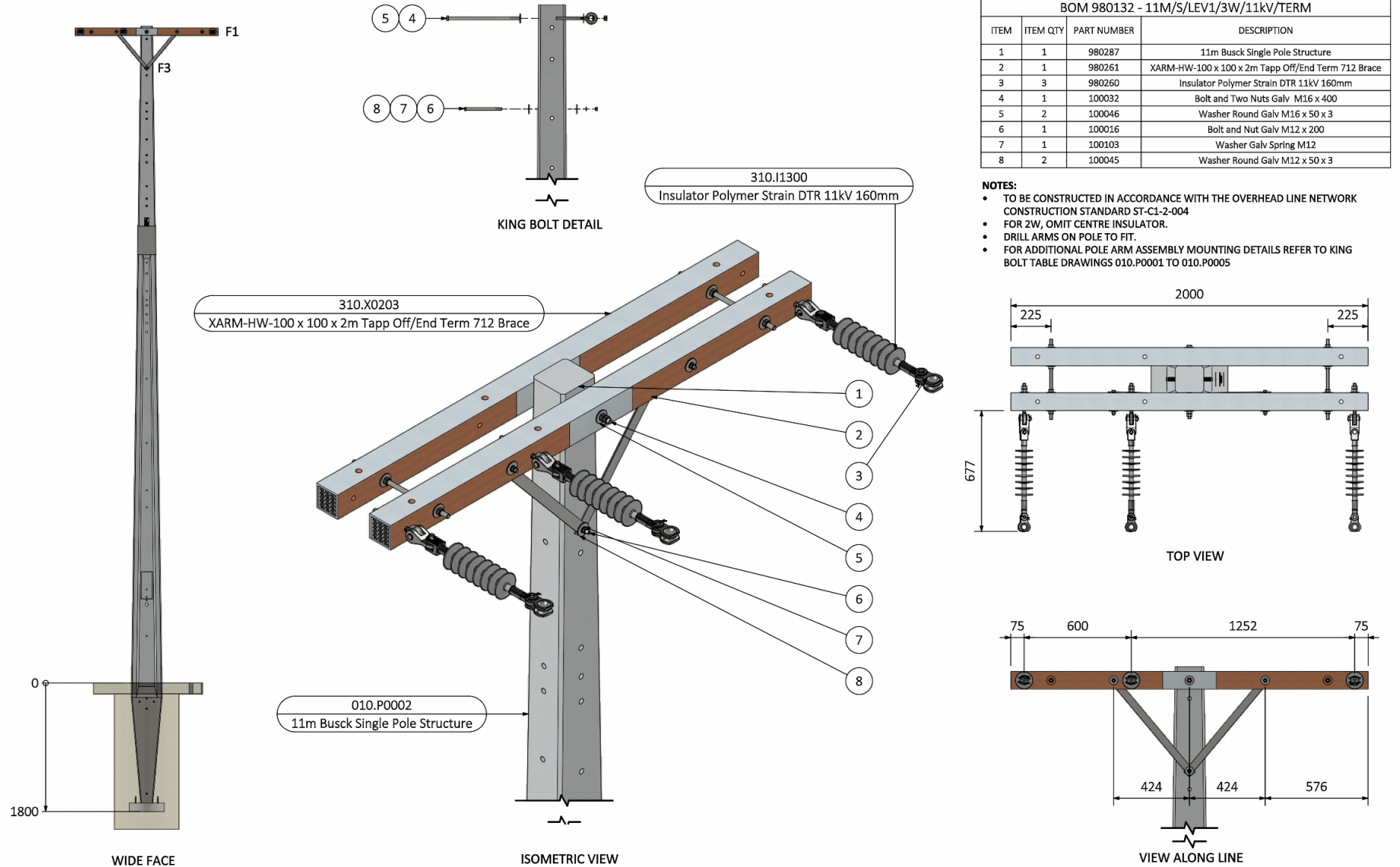
D:\Vault\W5\Drawings\1 - Network CAD\O - Overhead\3. HV Distribution
(11kV - 22kV)\20. Standard Structures\P. Pole Head\320.P01S01\320.P01S01.dwg



TO BE REISSUED 30 DAYS AFTER: 9/07/2024
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C:\TEMP\9824290-df54-71a2-58dc-71a258dcad0 (Design) TE Drawings\01 -
New\K CAD\0 - Overhead\3 - HV Distribution (11kV - 22kV)\20. Standard
Structures\P - Pole Head\320.P03S00\320.P03S00.dwg



C	Refer to ECO-000795	VR	11/04/2025	AB	7/05/2024	NS	9/05/2024
B	Refer to ECO-000592	VR	02/10/2024	AB	04/10/2024	NS	07/10/2024
A	Initial Design	VR	22/04/2024	AB	7/05/2024	NS	9/05/2024
REV	Description	Drawn By	Date	Checked By	Date	Approved By	Date



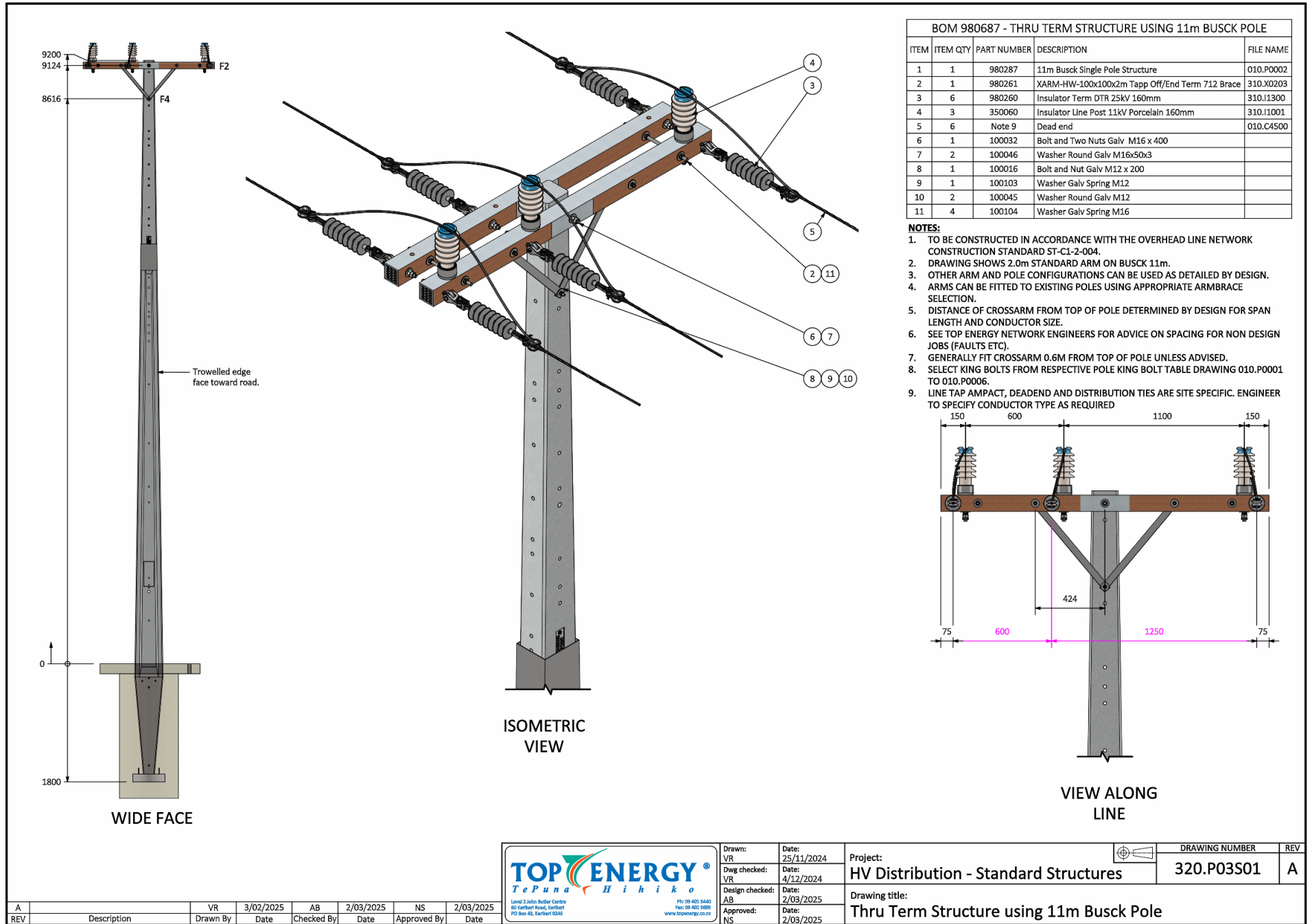
Drawn:	VR	Date:	3/11/2024
Dwg checked:	VR	Date:	1/05/2024
Design checked:	AB	Date:	5/07/2024
Approved:	NS	Date:	5/09/2024

Project:	HV Distribution - Standard Structures	DRAWING NUMBER	320.P03S00	REV	C
Drawing title:	End Term Structure Using 11m Busck Pole				

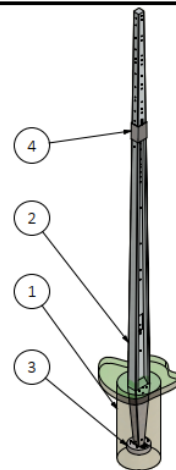
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D:\Vault\WS\Drawings\01 - Network CAD\0 - Overhead\3. HV Distribution
(11kV - 22kV)\20. Standard Structures\P. Pole Head\320.P03S01\320.P03S01.dwg



D:\Vault\W5\Designs\TE Drawings\01 - Network CAD\O - Overhead\O. Common\10. Components\5. P - Pole\010.P0000\010.P0002.dwg



NOTES:

1. All bolts to be grade 4.6 unless determined by specific design requirements.
2. All king bolts must have a thread length of 65mm to 125mm (75mm for reworked bolts).
3. All end term and through termination eyebolts shall be 60kn rated i.e. both 33kV and 11kV, unless otherwise specified by design.
4. All new construction on Busck poles for installation of through strain insulator assemblies shall use a long eyebolt through both cross arms and an eye nut.

CROSSARMS ON FACE									
Distance from top	Depth of hole through pole	100x75 Single Arm	100x100 Single Arm	100x75 Double Arm	100x100 Double Arm	Armbresses	Threaded Rod Cressarm 100x75	Threaded Rod Cressarm 100x100	
F1	76	151	M16 x 280 - 100027	M16 x 300 - 100028	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F2	178	152	M16 x 280 - 100027	M16 x 300 - 100028	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F3	584	156	M16 x 280 - 100027	M16 x 300 - 100028	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F4	686	157	M16 x 280 - 100027	M16 x 300 - 100028	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F5	1076	160	M16 x 280 - 100027	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F6	1194	162	M16 x 280 - 100027	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F7	1296	163	M16 x 280 - 100027	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F8	1584	165	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F9	1804	168	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F10	1906	168	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x400 - 100107	M16x450 - 100108
F11	2240	172	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F12	2414	173	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F13	2516	174	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F14	3137	180	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F15	3310	182	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F16	3463	184	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F17	3710	186	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F18	3833	187	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F19	3909	188	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 240 - 100025	M16x450 - 100108	M16x470 - 100150
F20	4036	189	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 240 - 100025	M16x450 - 100108	M16x495 - 100182
F21	4156	190	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 260 - 100026	M16x450 - 100108	M16x495 - 100182
F22	4283	192	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 260 - 100026	M16x450 - 100108	M16x495 - 100182
F23	4937	198	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 260 - 100026	M16x450 - 100108	M16x495 - 100182
F24	5837	207	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 260 - 100026	M16x450 - 100108	M16x495 - 100182
F25	6500	213	M16 x 350 - 100030	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 475 - 100035	M16 x 280 - 100027	M16x450 - 100108	M16x495 - 100182
F25	6737	215	M16 x 350 - 100030	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 475 - 100035	M16 x 280 - 100027	M16x450 - 100108	M16x510 - 100109
CROSSARMS ON EDGE									
Distance from top	Depth of hole through pole	100x75 Single Arm	100x100 Single Arm	100x75 Double Arm	100x100 Double Arm	Armbresses	Threaded Rod Cressarm 100x75	Threaded Rod Cressarm 100x100	
E1	127	424	M16 x 280 - 100027	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x430 - 100181	M16x450 - 100108
E2	635	169	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 220 - 100162	M16x430 - 100181	M16x450 - 100108
E3	635	178	M16 x 300 - 100028	M16 x 325 - 100029	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 240 - 100025	M16x430 - 100181	M16x450 - 100108
E4	914	186	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 240 - 100025	M16x430 - 100181	M16x450 - 100108
E5	1143	193	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 260 - 100026	M16x400 - 100107	M16x450 - 100108
E6	1245	196	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 260 - 100026	M16x400 - 100107	M16x450 - 100108
E7	1524	204	M16 x 325 - 100029	M16 x 350 - 100030	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 260 - 100026	M16x400 - 100107	M16x450 - 100108
E8	1854	213	M16 x 350 - 100030	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 475 - 100035	M16 x 280 - 100027	M16x450 - 100108	M16x470 - 100150
E9	2108	221	M16 x 350 - 100030	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 475 - 100035	M16 x 280 - 100027	M16x450 - 100108	M16x470 - 100150
E10	2197	223	M16 x 350 - 100030	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 475 - 100035	M16 x 280 - 100027	M16x450 - 100108	M16x470 - 100150
E11	2451	233	M16 x 350 - 100030	M16 x 375 - 100031	M16 x 425 - 100033	M16 x 475 - 100035	M16 x 280 - 100027	M16x450 - 100108	M16x495 - 100182
E12	2705	238	M16 x 375 - 100031	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 500 - 100036	M16 x 300 - 100028	M16x450 - 100108	M16x495 - 100182
E13	2794	240	M16 x 375 - 100031	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 500 - 100036	M16 x 300 - 100028	M16x450 - 100108	M16x495 - 100182
E14	3353	256	M16 x 375 - 100031	M16 x 400 - 100032	M16 x 450 - 100034	M16 x 500 - 100036	M16 x 325 - 100029	M16x450 - 100108	M16x510 - 100109

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T e P u n a H i h i k o

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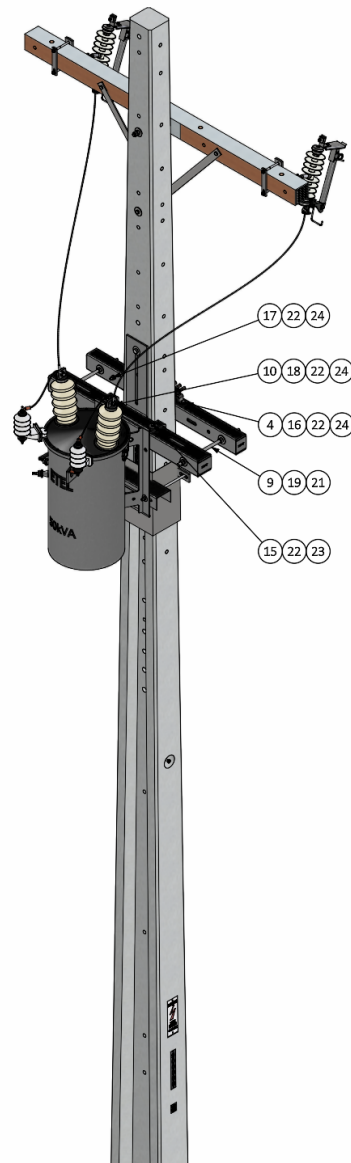
Ph: 09 403 546
Fax: 09 403 560
www.topenergy.co.nz

Drawn: VR	Date: 19/06/2024
Dwg checked: VR	Date: 20/06/2024
Design checked: AB	Date: 20/06/2024
Approved: MR	Date: 20/06/2024

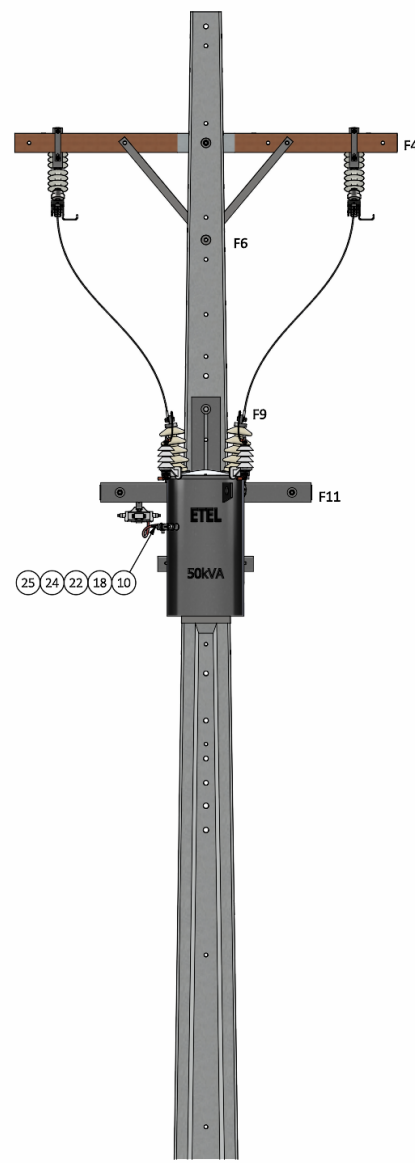
Project:	Standard Components
Drawing title:	Busck Pole 11m & King Bolt Table

	DRAWING NUMBER	REV
	010.P0002	A

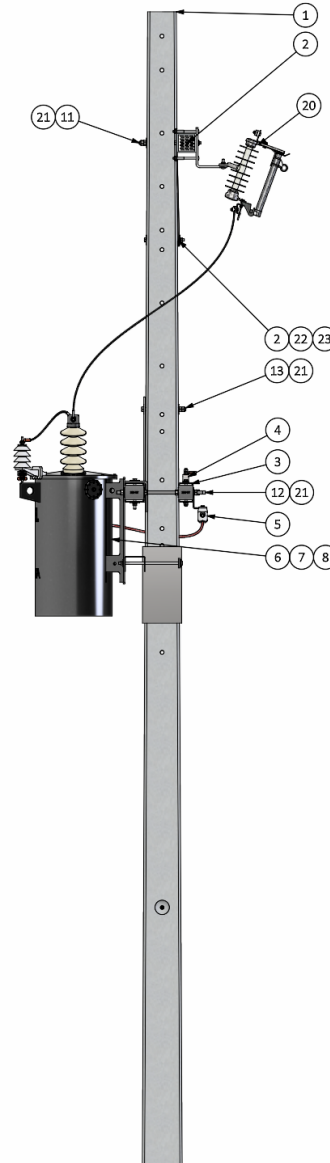
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REV	Description	Drawn By	Date	Checked By	Date	Approved By	Date

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Network CAD\0 - Overhead\3 - HV Distribution (11kV - 22kV)\20. Standard
Structures\T. Transformer\320.T32S00\320.T32S00.dwg

ISOMETRIC VIEW



FRONT FACE



SIDE FACE

BOM 980685 - 15-50kVA 1Ph Transformer on 11m Busck Pole					
ITEM	QTY	PART NUMBER	DESCRIPTION		DRAWING REF
1	1	980287	11m Busck Single Pole Structure		010.P0002
2	1	980259	XARM-HW-100x100x2m Term 712 Brace		310.X0002
3	1	550084	Hanger Bracket for 15-100kV TX - 11m Busck Pole		310.X0700
4	1	980268	Earth Neutral Bar		310.G8002
5	1	980314	Fusing - Single Phase - Base & BRKT K491		010.E2401
6	1	980391	TX - Single Phase -11kV 15kVA (2W HV)		
7	1	980392	TX - Single Phase -11kV 30kVA		
8	1	980393	TX - Single Phase -11kV 50kVA		
9	2	100108	Threaded Rod Galv M16 x 450, Incl Nuts/Wash		
10	3	400066	Crimp LugCu 35mm² M12		
11	1	100028	Bolt and Two Nuts Galv M16 x 300		
12	1	100033	Bolt and Two Nuts Galv M16 x 425		
13	1	100162	Bolt and Two Nuts Galv M16 x 220		
14	1	100016	Bolt and Nut Galv M12 x 200		
15	2	100014	Bolt and Nut Galv M12 x 150		
16	2	100013	Bolt and Nut Galv M12 x 130		
17	1	100201	Bolt and Nut Galv M12 x 110		
18	3	100008	Bolt and Nut Galv M12 x 40		
19	4	100104	Washer Galv Spring M16		
20	2	250075-01	Fuse Base Dropout 22kV		
21	14	100105	Washer Round Galv M16		
22	9	100103	Washer Galv Spring M12		
23	6	100045	Washer Round Galv M12		
24	12	100132	Washer SS Round M12		
25	1	150065	Cable SD CU 35mm Red PVC Vintol		

NOTES:

- TO BE CONSTRUCTED IN ACCORDANCE WITH THE OVERHEAD LINE NETWORK CONSTRUCTION STANDARD ST-C1-2-004.
 - 25mm² COPPER OR FERRET ACSR MINIMUM FROM CONDUCTOR TAIL TO THE TOP OF DDO'S.
 - 25mm² COPPER CONDUCTOR MINIMUM REQUIREMENT FROM HV FUSE BASE TO TRANSFORMER BUSHING.
 - NUTS TO BE TIGHTENED TO CORRECT TENSION - 190Nm
 - TAIL MUST BE ATTACHED TO THE MAIN LINE WITH A SUITABLE AMPACT. REFER TO DRAWING 10.C4501.
 - FOR STANDARD EARTHING ARRANGEMENT FOR POLE MOUNTED TRANSFORMERS. REFER TO EARTHING DRAWING 320.G51N02.
 - AMPACT AND DEADEND TYPES TO BE SPECIFIED BY ENGINEER TO SITE SPECIFICATIONS.
 - LV BUSHING LINKS TO BE CONNECTED IN ACCORDANCE WITH LOW VOLTAGE DISTRIBUTION REQUIREMENTS.
- 230 VOLT SINGLE PHASE
 - 460/230 VOLT SPLIT PHASE (AS SHOWN).



DRAWING NUMBER	REV
320.T32S00	A



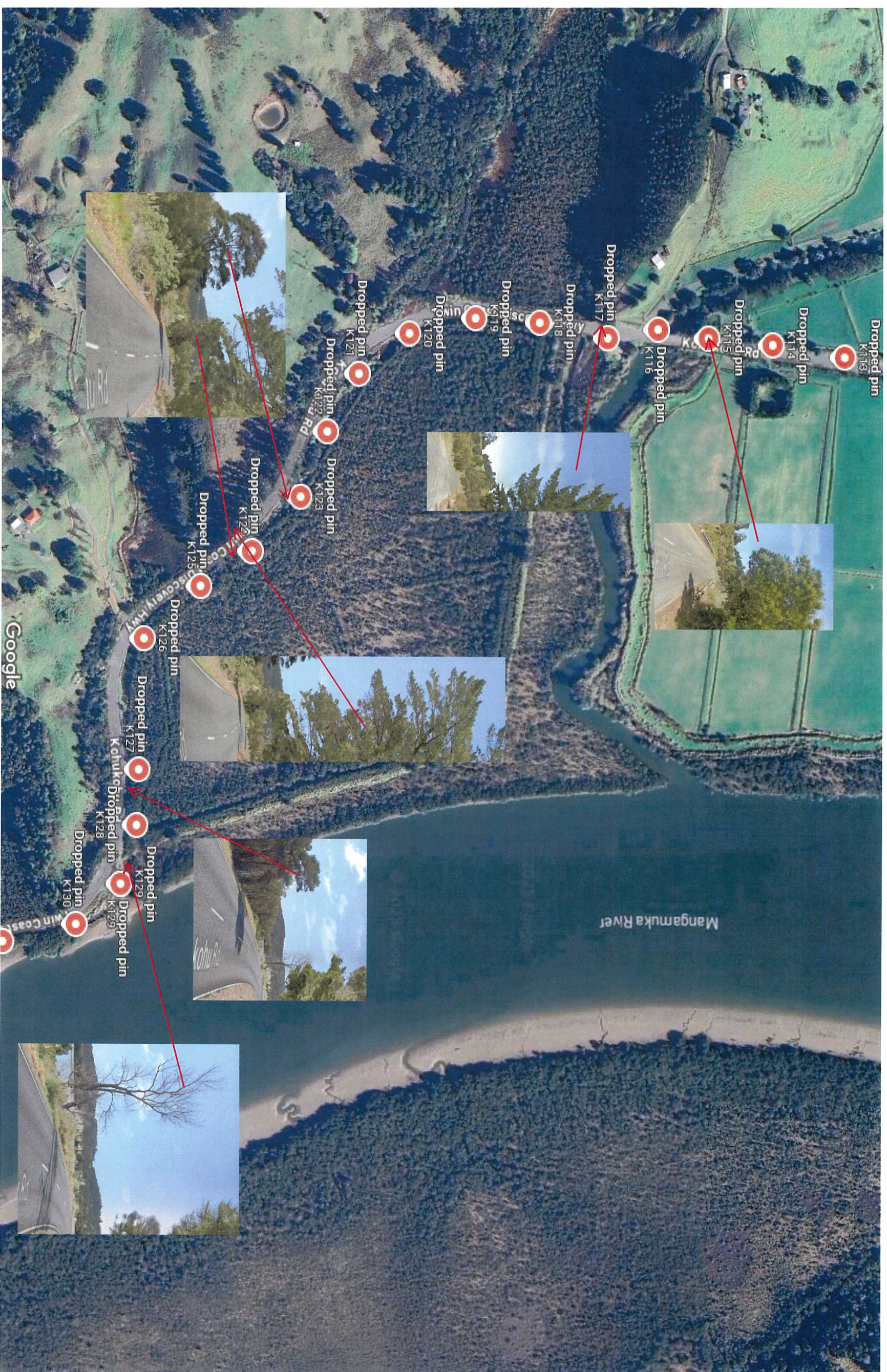
Drawn: CE	Date: 14/05/2025
Dwg checked: VN	Date: 14/05/2025
Design checked: AB	Date: 14/05/2025
Approved: SCC	Date: 14/05/2025

Project:
T - TransformerDrawing title:
15-50kVA 1Ph Pole Transformer on 11m Busck Pole

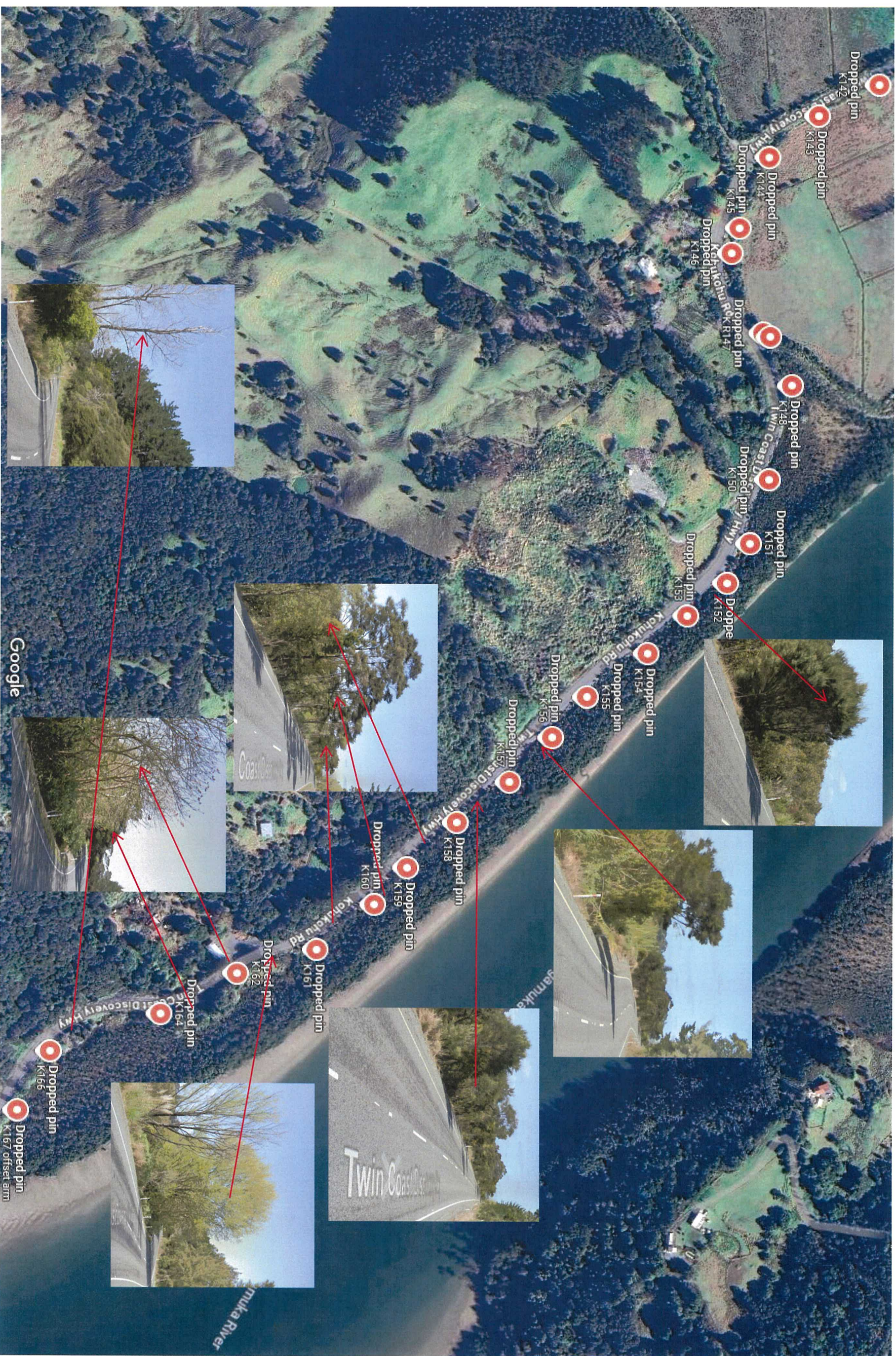
A	REV	Description	Drawn By	CE	14/05/2025	AB	14/05/2025	SCC	14/05/2025
					Date	Checked By	Date	Approved By	Date

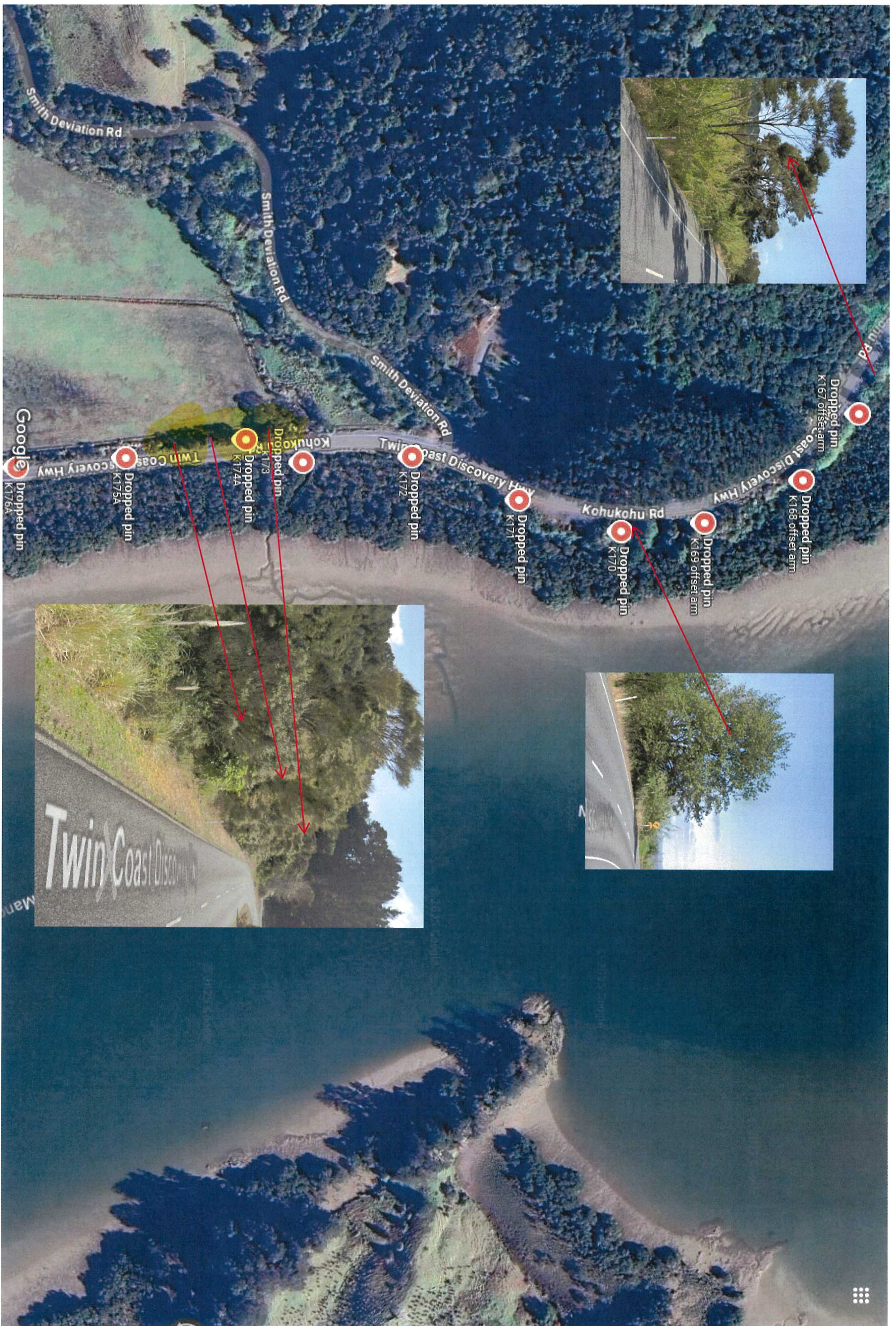
GOOGLE MAP – SURVEY PLAN LAYOUT – KOHUKOHU ROAD SWER REPLACEMENT

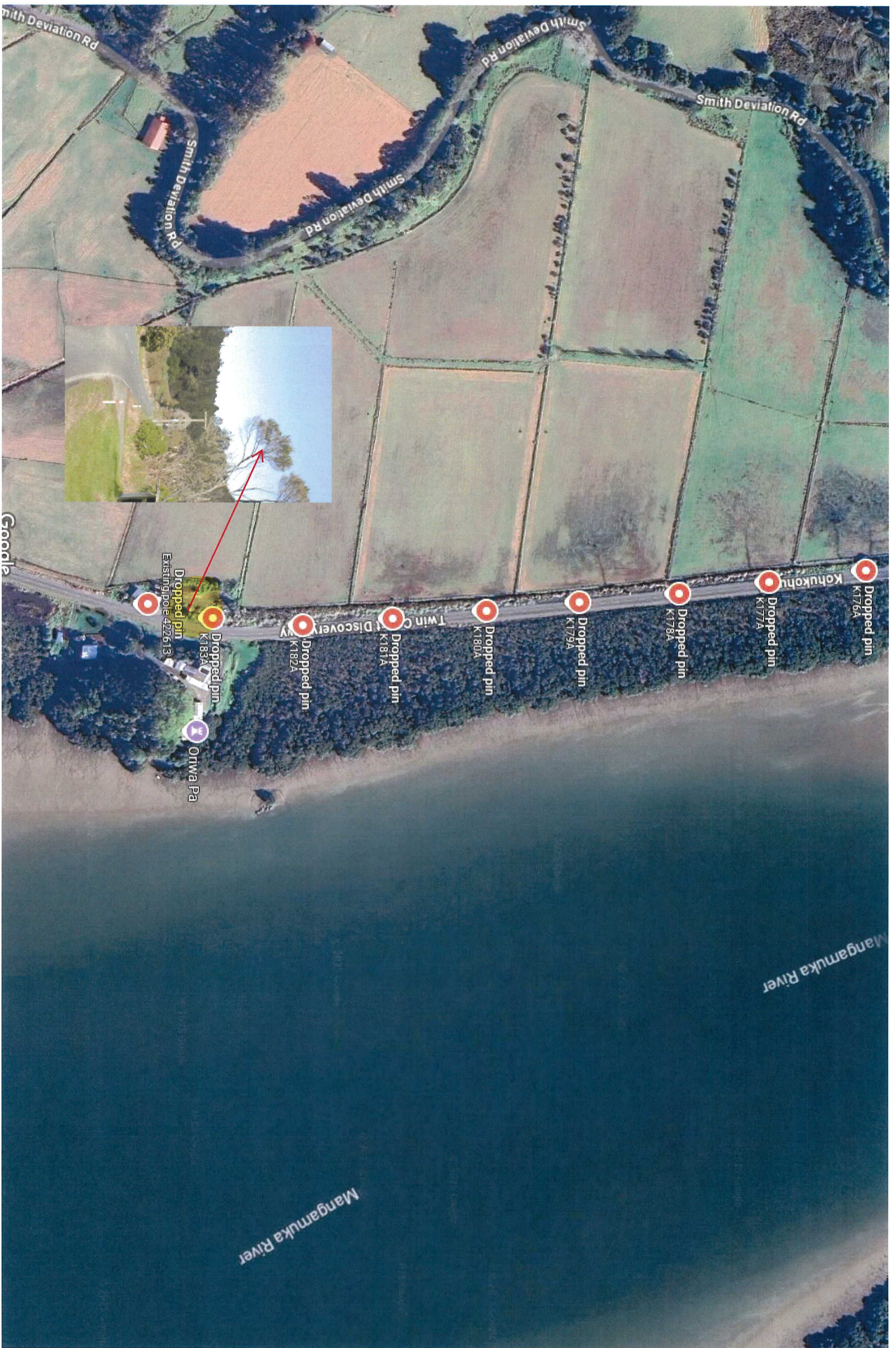












Proposal: Installation of Overhead Line – Kohukohu Road, Kohukohu

Address: Road Reserve of Kohukohu Road, and 754 Kohukohu Road, Kohukohu

District Plan: Operative Far North District Plan

Site Zoning	
Zone	Coastal Marine, General Coastal, Rural Production, Conservation
Overlays/Controls	Nil
Designations	Nil

Rule	Compliance	Non-Compliance
12 – Natural and Physical Resources		
12.1 – Landscapes and Natural Features – Not applicable to the proposal		
12.2 – Indigenous Flora and Fauna		
12.2.6.1.2 Indigenous Vegetation Clearance in the Rural Production and Minerals Zone – Permitted Activity Clearance of indigenous vegetation in the Rural Production and Minerals Zones which is more than 10 years old is a permitted activity where: (a) It is not in a remnant forest, not within 20m of a lake (as scheduled in Appendix 1C), indigenous wetland or continually flowing river, and the clearance does not exceed 2ha per site existing as at 1 February 2005 in any 10 year period while this rule is in force; or (b) If in a remnant forest, it is not within 20m of a lake (as scheduled in Appendix 1C), indigenous wetland or continually flowing river, and the clearance does not exceed 500m² per site existing as at 1 February 2005 in any 10 year period while this rule is in force.	Although clearance of indigenous vegetation within a remnant forest is proposed as part of this project, it is considered that this rule is not applicable because all vegetation clearance will occur within the road reserve, and the road reserve is not defined as a 'site'. Not applicable	

Rule	Compliance	Non-Compliance
12.2.6.1.3 – Indigenous Vegetation Clearance in the General Coastal Zone – Permitted Activity The clearance of indigenous vegetation is a permitted activity in the General Coastal Zone, provided that: (a) The vegetation is less than 6m in height or 600mm in girth (measured at a height of 1.5m); and (b) The clearance is not within 20m of a lake (as scheduled in Appendix 1C), coastal marine area, indigenous wetland or continually flowing river; and (c) Any clearance involving remnant forest does not exceed 500m²; and (d) In relation to the total area of any site existing as at 1 February 2005 which has more than 50% of that area in indigenous vegetation, the total clearance does not exceed 1ha or 15% of that area, whichever is the lesser, in any 10-year period; or (e) In relation to the total area of any site existing as at 1 February 2005 which has less than 50% of that area in indigenous vegetation, the total clearance does not exceed 1,000m² of that area in any 10 year period.	The vegetation clearance will be located further than 20m from the coastal marine area or continually flowing river. The total amount of vegetation clearance across the project within the General Coastal Zone will be approximately 120m². As mentioned above, the vegetation to be cleared is anticipated to be less than 6m in height and vegetation clearance will occur within the road reserve which is not defined as a 'site.' Complies.	
12.2.6.1.4 Indigenous Vegetation clearance in other Zones – Permitted Activity	Not applicable to the proposal	
12.3 – Soils and Minerals		
12.3.6.1.1 – Excavation and/or Filling, excluding Mining and Quarrying, in the Rural Production Zone or Kauri Cliffs Zone – Permitted Activity Excavation and/or filling, excluding mining and quarrying,	Although earthworks are proposed in the Rural Production Zone as part of this project, it is considered that this rule is not applicable because all earthworks will occur within the	

Rule	Compliance	Non-Compliance
on any site in the Rural Production Zone or Kauri Cliffs Zone is permitted, provided that: (a) It does not exceed 5,000m³ in any 12 month period per site; and (b) It does not involve a continuous cut or filled face exceeding an average of 1.5m in height over the length of the face i.e. the maximum permitted average cut and fill height may be 3m.	road reserve, and the road reserve is not defined as a 'site'. Notwithstanding, minor land disturbance of approximately 100m³ is proposed for the entire project which will not involve a continuous cut or filled face. Not applicable	
12.3.6.1.2 – Excavation and/or Filling, including obtaining Roading Material but excluding Mining and Quarrying, in the Rural Living, Coastal Living, South Kerikeri Inlet, General Coastal, Recreational Activities, Conservation, Waimate North and Point Veronica Zones Excavation and/or filling, excluding mining and quarrying, on any site in the Rural Living, Coastal Living, South Kerikeri Inlet Zone, General Coastal, Recreational Activities, Conservation, Waimate North and Point Veronica Zones is permitted, provided that: (a) It does not exceed 300m³ in any 12 month period per site; and (b) It does not involve a cut or filled face exceeding 1.5m in height i.e. the maximum permitted cut and fill height may be 3m.	Although earthworks are proposed in the General Coastal and Conservation Zones as part of this project, it is considered that this rule is not applicable because all earthworks will occur within the road reserve, and the road reserve is not defined as a 'site'. Notwithstanding, minor land disturbance of approximately 100m³ is proposed for the entire project which will not involve a continuous cut or filled face. Not applicable	
12.3.6.1.3 – Excavation and/or Filling, excluding Mining and Quarrying, in the Residential, Industrial, Horticultural Processing, Coastal Residential and Russell Township Zones – Permitted Activity	Not applicable to the proposal	
12.3.6.1.4 – Nature of Filling Material in all Zones – Permitted Activity	Will comply	

Rule	Compliance	Non-Compliance
Filling in any zone shall meet the following standards: (a) The fill material shall not contain putrescible, pollutant, inflammable or hazardous components; and (b) The fill shall not consist of material other than soil, rock, stone, aggregate, gravel, sand, silt, or demolition material; and (c) The fill material shall not comprise more than 5% vegetation (by volume) of any load.		
12.3.6.1.5 – Excavation and/or Filling, including Mining and Quarrying within the National Grid Yard in all Zones – Permitted Activity	Not applicable to the proposal	
12.4 – Natural Hazards – Not applicable to the proposal		
12.5 – Heritage – Not applicable to the proposal		
12.5A – Heritage Precincts – Not applicable to the proposal		
12.5B – Paihia Mission Heritage Area – Not applicable to the proposal		
12.6 – Air – Not applicable to this proposal		
12.7 – Lakes, Rivers, Wetlands and the Coastline		
12.7.6.1.1 – Setback from Lakes, Rivers and the Coastal Marine Area For the purposes of this rule, lakes include the Manuwai and Waingaro Reservoirs. Any building and any impermeable surface must be set back from the boundary of any lake (where a lake bed has an area of 8ha or more), river (where the average width of the riverbed is 3m or more) or the boundary of the coastal marine area, except that this rule does not apply to main-made private water bodies other than the Manuwai and Waingaro Reservoirs.		Although the proposal is for buildings and impermeable surfaces associated with utility service structures the power poles will exceed 6m in height, being 11m. The majority of the powerpoles will be located within 30m of the coastal marine area due to be located adjacent to the Mangamuka River. As such, resource consent is required for a discretionary activity in accordance with Rule 12.7.6.3.

Rule	Compliance	Non-Compliance
The setback shall be: (a) A minimum of 30m in the Rural Production, Waimate North, Rural Living, Minerals, Recreational Activities, Conservation, General Coastal, South Kerikeri Inlet and Coastal Living Zones; (b) A minimum of 26m in the Residential, Coastal Residential and Russell Township Zones; (c) A minimum of 20m in the Commercial and Industrial Zones. Provided that these setbacks do not apply: (i) To activities in a Maritime Exemption Area; or (ii) To river crossings, including but not limited to, fords, bridges, stock crossings and culvert crossings; or (iii) To activities related to the construction of river crossings; or (iv) To pumphouses utilised for the drawing of water from the lake, river or wetland, provided such pumphouse covers less than 25m² in area; or (v) To buildings and impermeable surfaces associated with utility service structures, provided that they do not exceed 2m in height or 5m in area; (vi) To activities associated with the maintenance, replacement and upgrading of existing linear network utilities; or (vii) Where there is a legally formed and maintained road between the property and the coastal marine area, lake or river; or (viii) To activities associated with marine farming shore		

Rule	Compliance	Non-Compliance
facilities on Lot 1 DP197240 (Orongo Bay), Lot 1 DP155347 (Waikare Inlet) and Lot 1 DP190467 (Waikare Inlet); or (ix) to Doug's Opuā Boatyard's existing uses and/or resource consents applicable over Sec 1, 2, 3, & 4 SO68634 (esplanade reserve) CT 121C/187; NRC Plan Map 3231B; and pt Lot 1, Lot 2 & Sec 3 Town Block of Opuā XXXII CT 21C/265; or (x) to activities, buildings and impermeable surfaces associated with the operation of a commercial boatyard on Part Allotment 6, Section 13, Town of Russell.		
12.7.6.1.2 – Setback from Smaller Lakes, Rivers and Wetlands Any building and any impermeable surface must be set back from the boundary of lakes (where the lake bed has an area of less than 8ha) smaller continually flowing rivers (where the average width of the river bed is less than 3m) and wetlands except that this rule does not apply to man-made private water bodies. The setback shall be: (a) 3 x the area (ha) of the lake (e.g. if the lake is 5ha in area, the setback shall be 15m); and/or (b) 10 x the average width of the river where it passes through or past the site; Provided that in both cases the minimum setback shall be 10m and the maximum setback shall be no more than the minimum required by Rule 12.7.6.1.1 above:		Although the proposal is for buildings and impermeable surfaces associated with utility service structures the power poles will exceed 2m in height, being 11m. Some of the power poles are likely located within 30m of a potential wetland (salt marsh area on the western side of Te Karāe Stream). As such, resource consent is required for a discretionary activity in accordance with Rule 12.7.6.3.

Rule	Compliance	Non-Compliance
(c) 30m for any wetland of 1ha or more in area. ...		
12.7.6.1.3 – 12.7.6.1.6	Not applicable to this proposal	
12.8 – Hazardous Substances – Not applicable to the proposal		
12.9 – Renewable Energy and Energy Efficiency – Not applicable to the proposal		
17 – Designations and Utility Services		
17.1 – Designations – Not applicable to the proposal		
17.2 – Utility Services		
17.2.6.1.1 – 17.2.6.1.2	Not applicable to this proposal	
17.2.6.1.3 – Above Ground Utility Services for Supply of Electricity Including Lines, Structures, and Support Structures for the Transformation, Transmission or Distribution of Electricity in the Rural Environment – Permitted Activity In the rural environment zones, including the Waimate North Zone, but excluding areas identified as Outstanding Landscapes, Outstanding Landscape Features or Outstanding Natural Features (as shown on the <i>Resource Maps</i>), new lines or additions to lines (being a lineal extension of the line) for conveying electricity at a voltage up to and including 110 kV, including all support structures for those lines, is a permitted activity, and is not required to comply with the rules in <i>Part 2 – Environment Provisions</i> .	The majority of the new 11kV overhead Line and supporting pole structures will be located within the Rural Production Zone. Complies	
17.2.6.1.4 – 17.2.6.1.8	Not applicable to this proposal	
17.2.6.3 – Restricted Discretionary Activities	Not applicable to this proposal	
17.2.6.4 – Discretionary Activities An activity is a discretionary activity if: (a) If does not comply with one or more of the standards for permitted activities set out	The proposal includes a section of the new 11kV overhead line and supporting pole structures within the General Coastal Zone, which is an above ground utility service not specifically provided	

Rule	Compliance	Non-Compliance
in Rules 17.2.6.1.1 to 17.2.6.1.7; or (b) It is the formation, maintenance and upgrading of roads; or (c) It is an above ground utility service not specifically provided for in Rules 17.2.6.1.2 or Rule 17.2.6.1.6; (d) in all zones other than the rural or coastal environment zones, or the Waimate North Zone, or in areas identified as an Outstanding Landscape, Outstanding Landscape Feature or Outstanding Natural Feature (as shown on the Resource Maps) it is a new line or addition to lines for conveying electricity at a voltage up to and including 110 kV, including all support structures for those lines; or (e) in the Russell Township Zone, it is a telecommunications line, a telecommunication link and a radio communication facility; or (f) in all zones other than rural environment zones, or the Waimate North Zone, and on road reserves, it is a substation; or (g) it complies with the relevant standards for permitted, controlled, restricted discretionary or discretionary activities in the zone in which it is located, set out in Part 2 of the Plan - Environment Provisions; and (h) it complies with the relevant standards for permitted, controlled, restricted discretionary or discretionary activities set out in Part 3 of the Plan - District Wide Provisions.	for in Rule 17.2.6.1.2 or Rule 17.2.6.1.6. Discretionary Activity The proposal includes a section of the new 11kV overhead Line and supporting pole structures within the Conservation Zone. Discretionary Activity	

District Plan: Proposed Far North District Plan

Site Zoning	
Zone	Rural Production, Natural Open Space, Open Space
Overlays/Controls	Coastal Environment, High Natural Character, Coastal Flood Hazard (1:50 year, 100 year and 100 year + rapid sea level rise), River Flood Hazard (10 year, 100 year ARI Event)
Designations	Nil

Rule	Compliance	Non-Compliance
Rules and Standards that have Immediate Legal Effect under the PDP		
Part 2 – District Wide Matters / Hazards and Risks / Hazardous Substances		
Hazardous Substances	N/A The proposal does not involve any hazardous substances.	
Part 2 – District Wide Matters / Historical and Cultural Values		
Heritage Areas	N/A The proposal is not located in a Heritage Area.	
Historic Heritage	N/A The proposal does not involve any scheduled heritage resources.	
Notable Trees	N/A The proposal does not involve any notable trees.	
Sites and Areas of Significance to Māori	N/A The project area is not located within any sites or areas of significance to Māori.	
Part 2 – District Wide Matters / Natural Environment Values		
Ecosystems and Biodiversity		
IB-R4 Indigenous Vegetation Clearance and any associated Land Disturbance outside a Significant Natural Area	Although clearance of indigenous vegetation is proposed as part of this project, it is considered that this rule is not applicable because all vegetation clearance will occur within the road reserve, and the road reserve is not defined as a 'site'.	

Rule	Compliance	Non-Compliance
	Not applicable	
Part 2 – District Wide Matters / Subdivision		
Subdivision	N/A The proposal does not involve any subdivision.	
Part 2 – District Wide Matters / General District Wide Matters		
Activities on the Surface of Water	N/A No activities on the surface of water are proposed.	
Earthworks		
EW-R12 Earthworks and Discovery of Suspected Sensitive Material	Complies Accidental Discovery protocols will be followed as necessary.	
EW-R13 Earthworks and Erosion and Sediment Control	Complies All necessary erosion and sediment control guidelines will be followed as necessary.	
Signs	N/A No signs are proposed.	
Part 3 – Area Specific Matters / Special Purpose Zones / Orongo Bay		
OBZ-R14 – Comprehensive Development Plan	N/A – the site is not located in Orongo Bay.	



NOTICE OF WRITTEN APPROVAL

Written Approval of Affected Parties in accordance with Section 95E of the Resource Management Act

PART A – To be completed by Applicant

Applicant/s Name:

Top Energy Limited

Address of proposed activity:

Road reserve of Kohukohu Road, Kohukohu, as well as 754 Kohukohu Road.

Legal description:

Road reserve and Lot 25 DP 7199

Description of the proposal (including why you need resource consent):

The proposal involves the installation of a new 11kV overhead line and supporting pole structures within the road reserve of Kohukohu Road for a total length of 5.6km. The proposal also involves the installation of a new 2W HV line and supporting pole structures, and the removal of an existing SWER line and pole structures at 754 Kohukohu Road. The proposal requires the following resource consents:
Discretionary Activity for as the proposed infrastructure will be located within 30m of the coastal marine area (Rule 12.7.6.3), Controlled Activity as a section of the proposed infrastructure will be located within the General Coastal Zone (Rule 17.2.6.2), Discretionary Activity as a section of the proposed infrastructure will be located within the Conservation Zone (Rule 17.2.6.4).

Details of the application are given in the attached documents & plans (list what documents & plans have been provided to the party being asked to provide written approval):

1. Kohukohu SWER Replacement Plan Set
2. Pole Head Assemblies Plan Set
3. Busck Concrete Pole Plan
4. _____
5. _____
6. _____

Notes to Applicant:

1. Written approval must be obtained from all registered owners and occupiers.
2. The **original copy** of this signed form and **signed plans and accompanying documents** must be supplied to the Far North District Council.
3. The amount and type of information provided to the party from whom you seek written approval should be sufficient to give them a full understanding of your proposal, its effects and why resource consent is needed.

PART B – To be completed by Parties giving approval

Notes to the party giving written approval:

1. If the owner and the occupier of your property are different people then separate written approvals are required from each.
2. You should only sign in the place provided on this form and accompanying plans and documents if you **fully understand** the proposal and if you **support** or have **no opposition** to the proposal. Council will not accept conditional approvals. If you have conditions on your approval, these should be discussed and resolved with the applicant directly.
3. Please note that when you give your written approval to an application, council cannot take into consideration any actual or potential effects of the proposed activity on you unless you formally withdraw your written approval **before** a decision has been made as to whether the application is to be notified or not. After that time you can no longer withdraw your written approval.
4. Please sign and date all associated plans and documentation as referenced overleaf and return with this form.
5. If you have any concerns about giving your written approval or need help understanding this process, please feel free to contact the duty planner on 0800 920 029 or (09) 401 5200.

Full name/s of party giving approval:

Edward John & Gail Marie Guest

Address of affected property including legal description

754 KohuKohu Road, Kohukohu

Contact Phone Number/s and email address

Daytime:

09 4055523

email:

j.g.guest@hotmail.co.nz

I am/we are the OWNER(S) / OCCUPIER(S) of the property (circle which is applicable)

Please note: in most instances the approval of **all** the legal owners and the occupiers of the affected property will be necessary.

1. I/We have been provided with the details concerning the application submitted to Council and understand the proposal and aspects of non-compliance with the Operative District Plan.
2. I/We have signed each page of the plans and documentation in respect of this proposal (these need to accompany this form).
3. I/We understand and accept that once I/we give my/our approval the Consent Authority (Council) cannot take account of any actual or potential effect of the activity and/or proposal upon me/us when considering the application and the fact that any such effect may occur shall not be relevant grounds upon which the Consent Authority may refuse to grant the application.
4. I/We understand that at any time before the notification decision is made on the application, I/we may give notice in writing to Council that this approval is withdrawn.

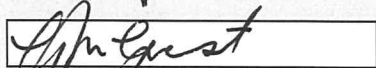
Signature



Date

15th September 23

Signature



Date

15 September 23

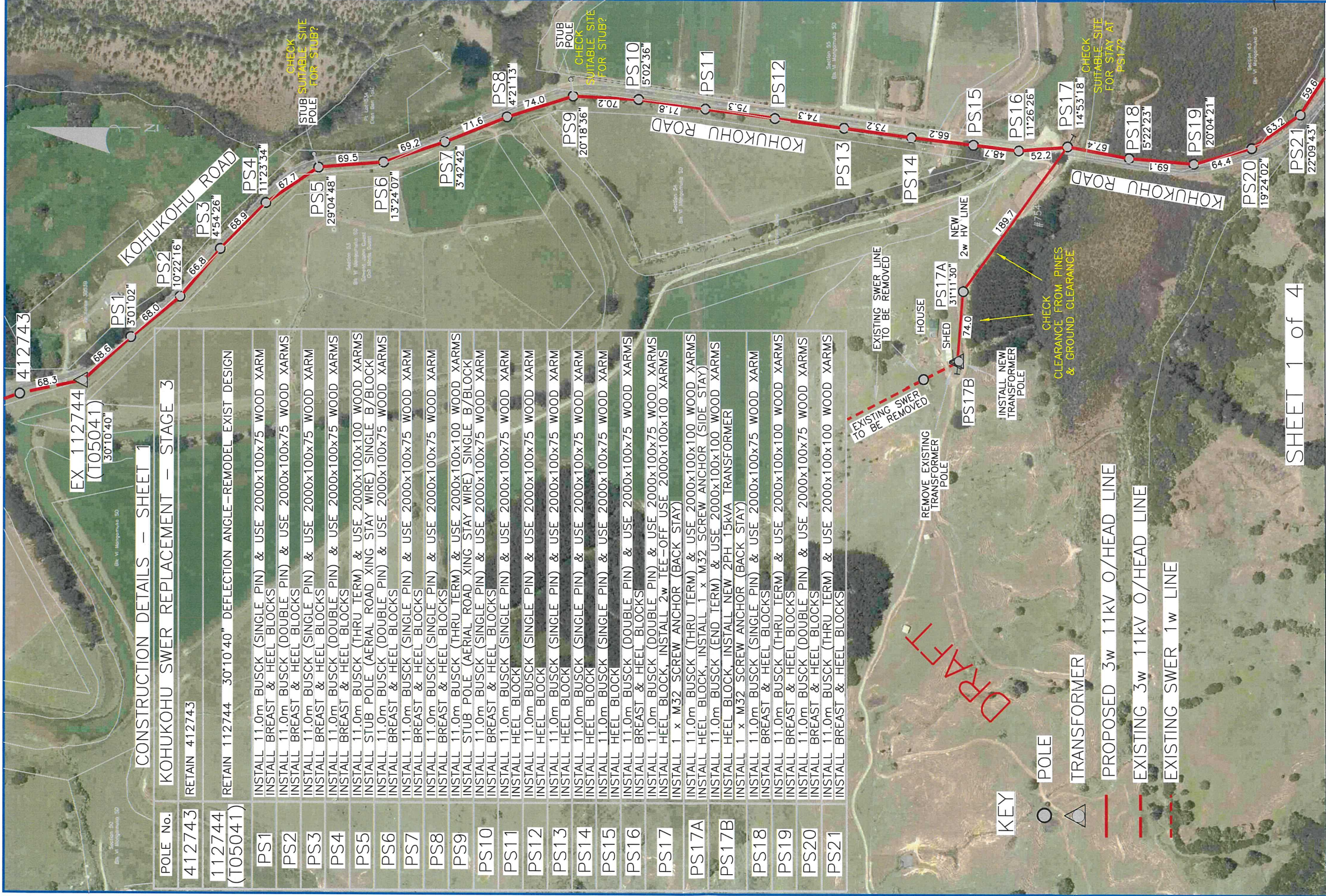
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Date

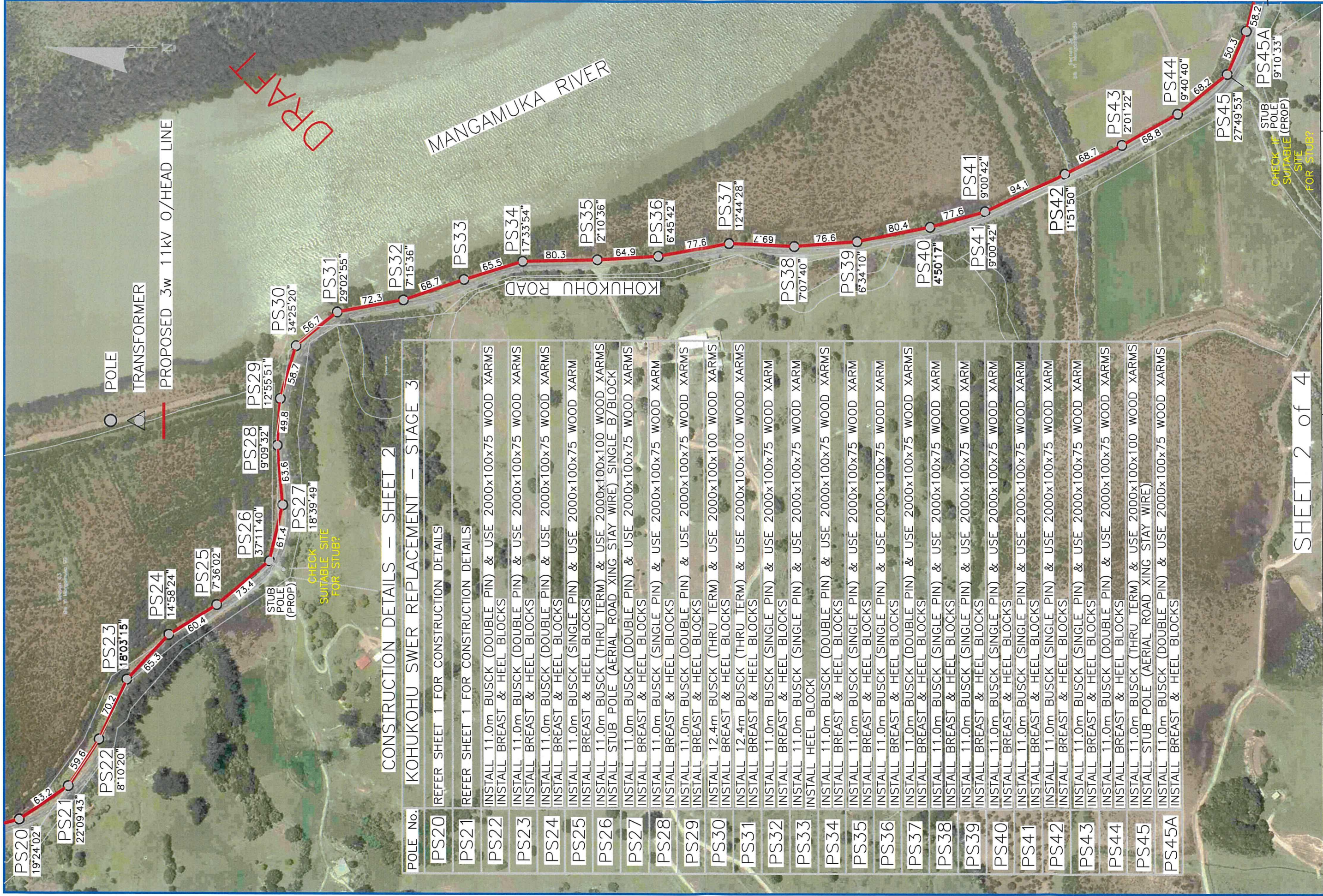
Signature

Date



CONSTRUCTION DETAILS – SHEET 1

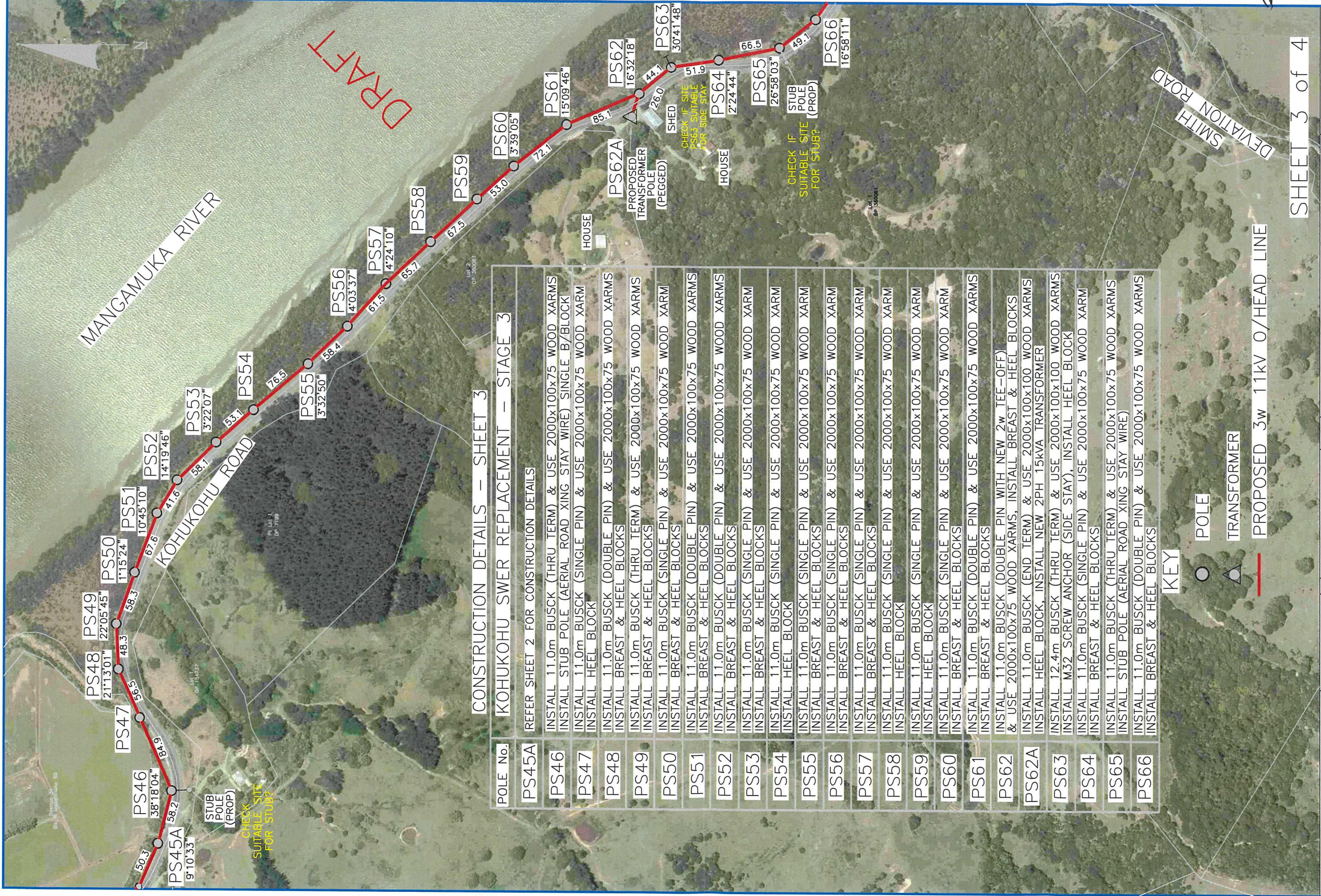
POLE No.	KOHUKOHU SWER REPLACEMENT – STAGE 3
412743	RETAIN 412743
112744 (T05041)	RETAIN 112744 30°10'40" DEFLECTION ANGLE-REMODEL EXIST DESIGN
PS1	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS2	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS3	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS4	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS5	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS6	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS7	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS8	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS9	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS10	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS11	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS12	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS13	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS14	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS15	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS16	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS17	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL HEEL BLOCK, INSTALL 2w TEE-OFF USE 2000x100x100 XARMS INSTALL 1 x M32 SCREW ANCHOR (BACK STAY)
PS17A	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL HEEL BLOCK, INSTALL 1 x M32 SCREW ANCHOR (SIDE STAY)
PS17B	INSTALL 11.0m BUSCK (END TERM) & USE 2000x100x100 WOOD XARMS INSTALL HEEL BLOCK, INSTALL NEW 2PH 15kVA TRANSFORMER INSTALL 1 x M32 SCREW ANCHOR (BACK STAY)
PS18	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS19	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS20	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS21	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREST & HEEL BLOCKS



CONSTRUCTION DETAILS – SHEET 2

POLE No.	KOHUKOHU SWER REPLACEMENT – STAGE 3
PS20	REFER SHEET 1 FOR CONSTRUCTION DETAILS
PS21	REFER SHEET 1 FOR CONSTRUCTION DETAILS
PS22	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS23	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS24	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS25	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS26	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS27	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS28	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS29	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS30	INSTALL 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS31	INSTALL 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS32	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS33	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS34	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS35	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS36	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS37	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS38	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS39	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS40	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS41	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS42	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS43	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS44	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS45	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE)
PS45A	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS

Handwritten signatures and initials.



CONSTRUCTION DETAILS – SHEET 3

POLE No.	KOHUKOHU SWER REPLACEMENT – STAGE 3
PS45A	REFER SHEET 2 FOR CONSTRUCTION DETAILS
PS46	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE) SINGLE B/BLOCK
PS47	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS48	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS49	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS50	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS51	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS52	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS53	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS54	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS55	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS56	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS57	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS58	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS59	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS60	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS61	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS
PS62	INSTALL 11.0m BUSCK (DOUBLE PIN WITH NEW 2w TEE-OFF) & USE 2000x100x75 WOOD XARMS, INSTALL BREAST & HEEL BLOCKS
PS62A	INSTALL 11.0m BUSCK (END TERM) & USE 2000x100x100 WOOD XARMS INSTALL HEEL BLOCK, INSTALL NEW 2PH 15kVA TRANSFORMER
PS63	INSTALL 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY), INSTALL HEEL BLOCK
PS64	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREAST & HEEL BLOCKS
PS65	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL STUB POLE (AERIAL ROAD XING STAY WIRE)
PS66	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREAST & HEEL BLOCKS

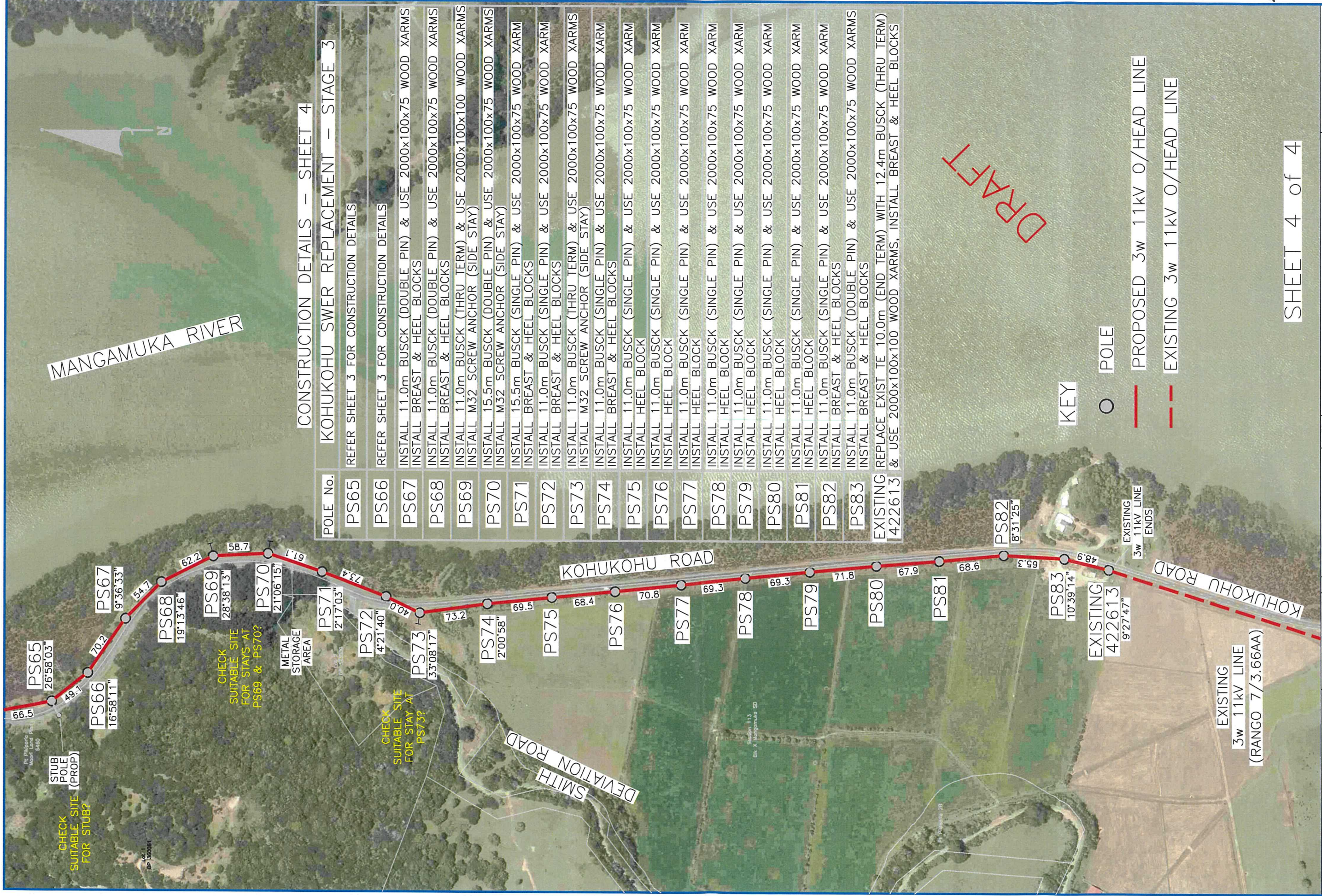
KEY

○ POLE

△ TRANSFORMER

— PROPOSED 3w 11kv O/HEAD LINE

Signature



CONSTRUCTION DETAILS – SHEET 4	
POLE No.	KOHUKOHU SWER REPLACEMENT – STAGE 3
PS65	REFER SHEET 3 FOR CONSTRUCTION DETAILS
PS66	REFER SHEET 3 FOR CONSTRUCTION DETAILS
PS67	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS68	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
PS69	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY)
PS70	INSTALL 15.5m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY)
PS71	INSTALL 15.5m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS72	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS73	INSTALL 11.0m BUSCK (THRU TERM) & USE 2000x100x75 WOOD XARMS INSTALL M32 SCREW ANCHOR (SIDE STAY)
PS74	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS75	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS76	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS77	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS78	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS79	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS80	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS81	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL HEEL BLOCK
PS82	INSTALL 11.0m BUSCK (SINGLE PIN) & USE 2000x100x75 WOOD XARM INSTALL BREST & HEEL BLOCKS
PS83	INSTALL 11.0m BUSCK (DOUBLE PIN) & USE 2000x100x75 WOOD XARMS INSTALL BREST & HEEL BLOCKS
EXISTING 422613	REPLACE EXIST TE 10.0m (END TERM) WITH 12.4m BUSCK (THRU TERM) & USE 2000x100x100 WOOD XARMS, INSTALL BREST & HEEL BLOCKS

KEY

○

POLE

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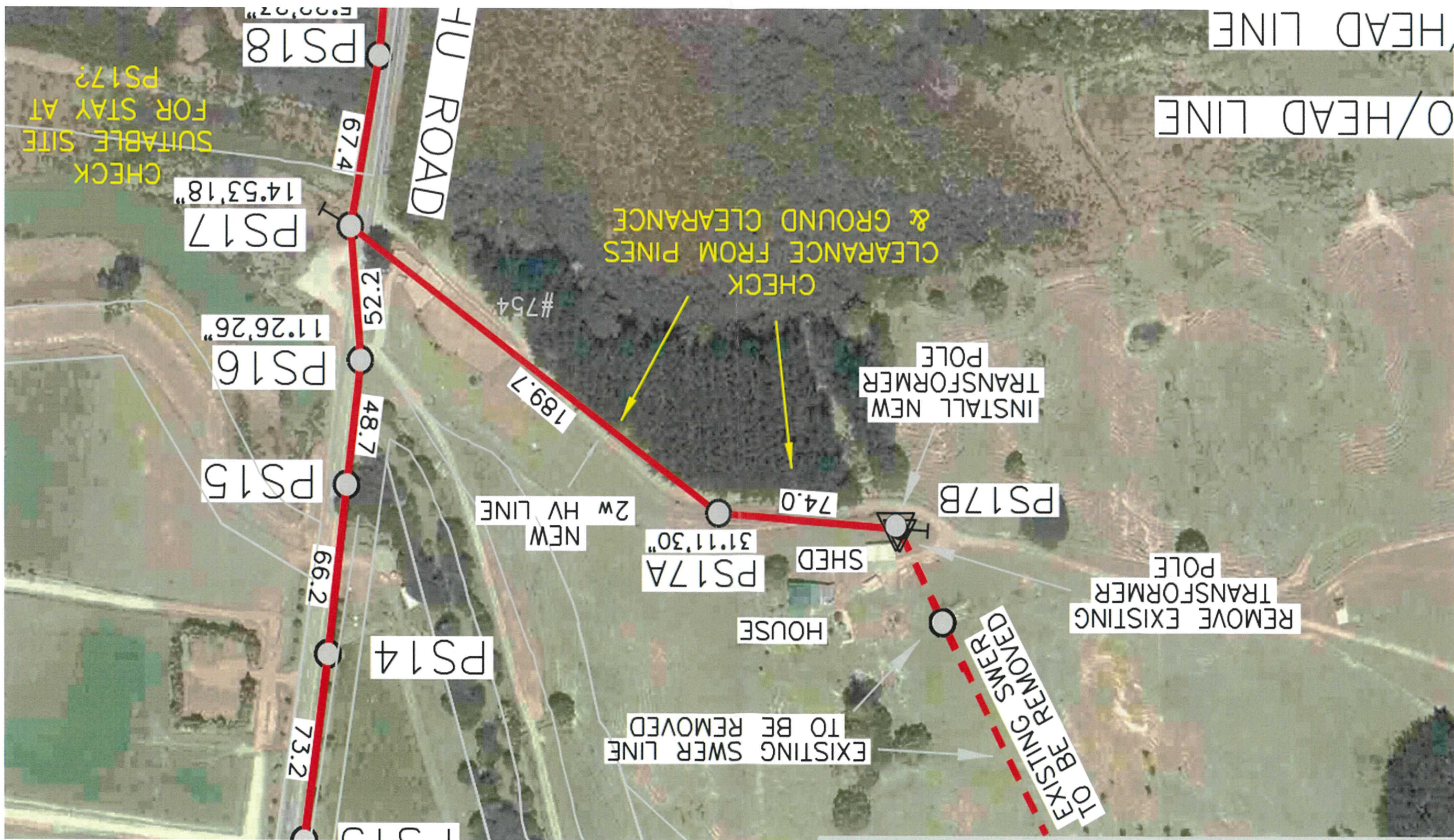
PROPOSED 3w 11kV O/HEAD LINE

- -

EXISTING 3w 11kV O/HEAD LINE

Handwritten signatures and initials

Handwritten signature

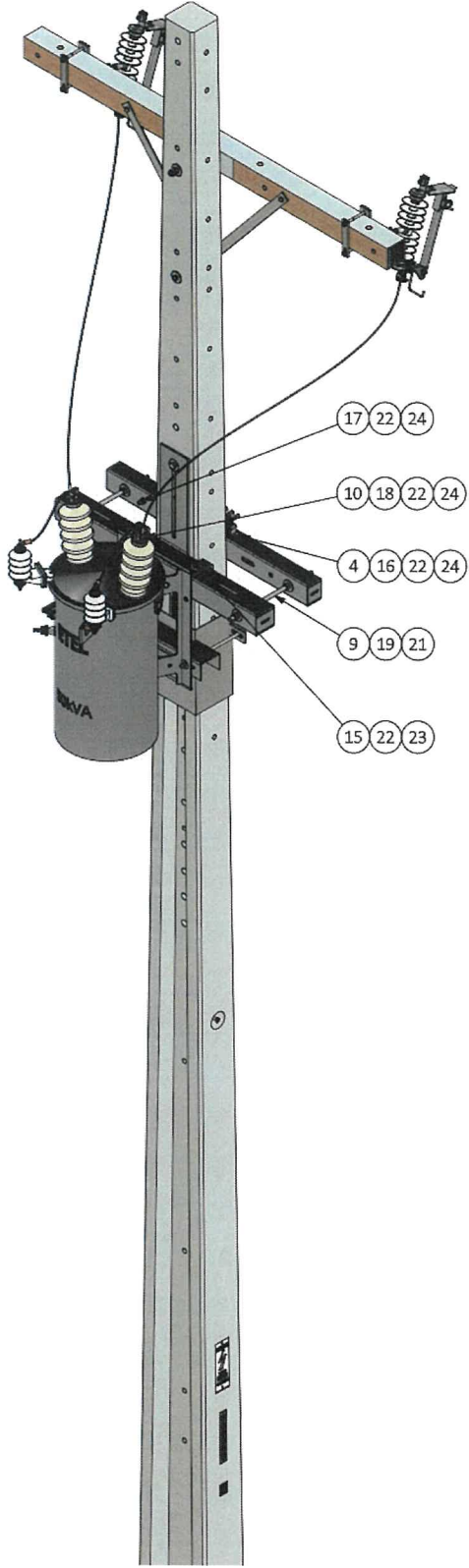


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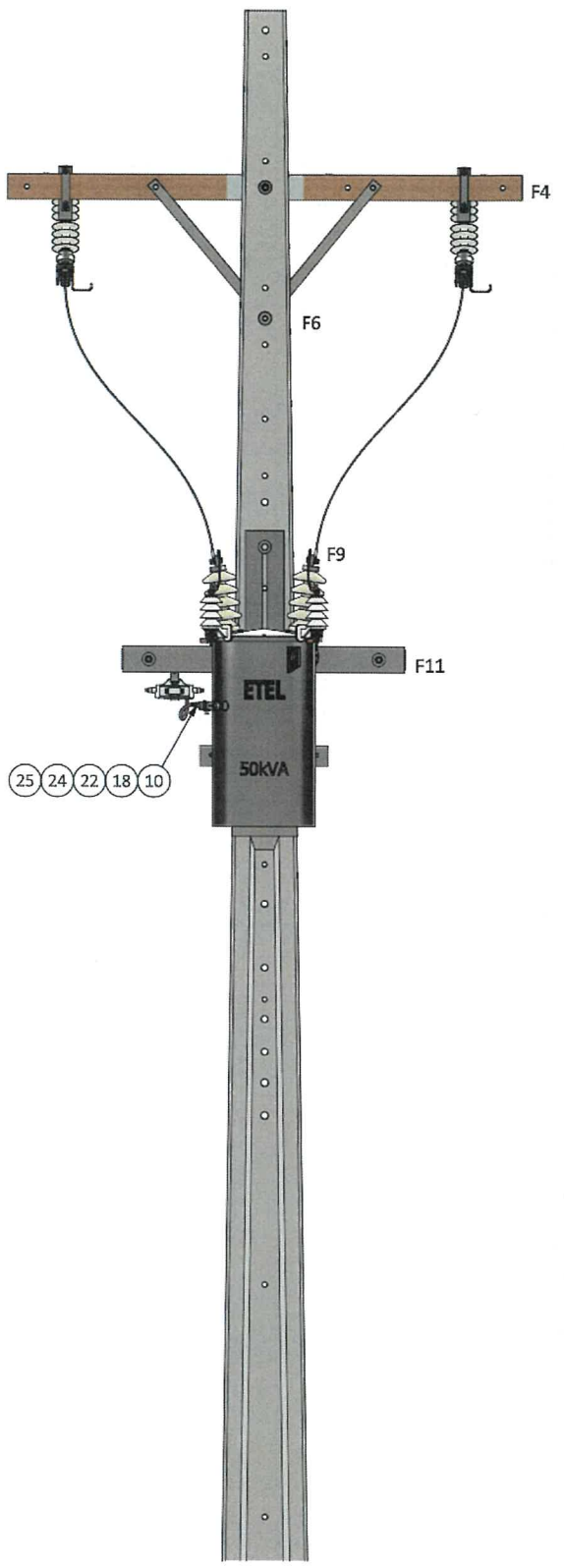
TO BE REISSUED 30 DAYS AFTER: 27/03/2024
UNCONTROLLED DOCUMENT WHEN PRINTED.

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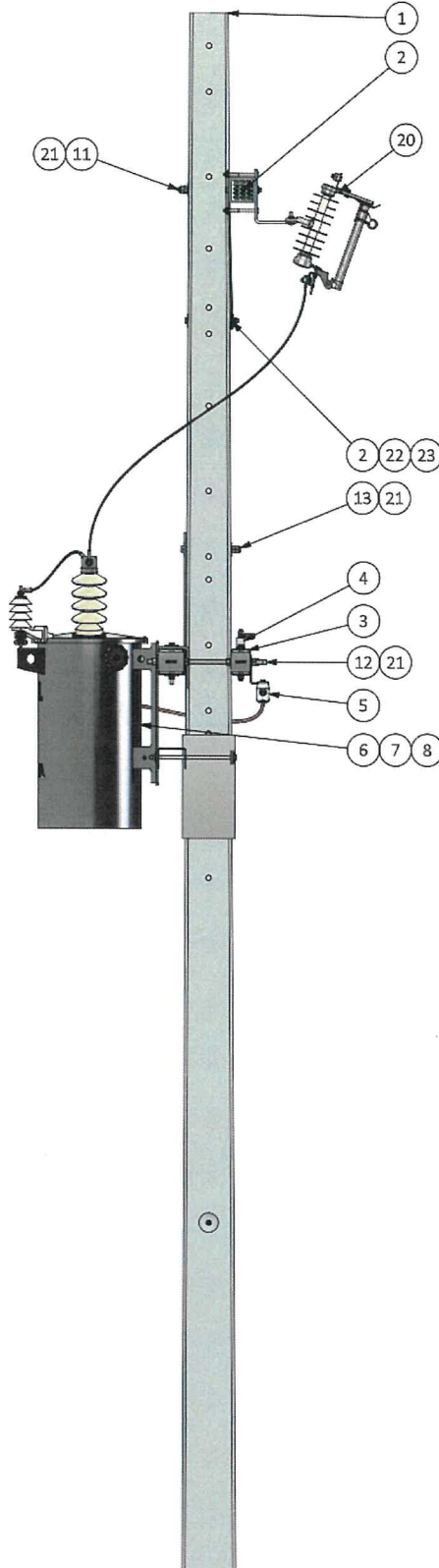
C:\TEMP\92fb61d7-4a45-4ef3-ad9b-33f2e87bf607\Designs\TE Drawings\01 -
Network CAD\0 - Overhead\3 - HV Distribution (11kV - 22kV)\20. Standard
Structures\T. Transformer\320.T32S00\320.T32S00.dwg



ISOMETRIC VIEW



FRONT FACE



SIDE FACE

BOM 980685 - 15-50kVA 1Ph Transformer on 11m Busck Pole				
ITEM	QTY	PART NUMBER	DESCRIPTION	DRAWING REF
1	1	980287	11m Busck Single Pole Structure	010.P0002
2	1	980259	XARM-HW-100x100x2m Term 712 Brace	310.X0002
3	1	550084	Hanger Bracket for 15-100kV TX - 11m Busck Pole	310.X0700
4	1	980268	Earth Neutral Bar	310.G8002
5	1	980314	Fusing - Single Phase - Base & BRKT K491	010.E2401
6	1	980391	TX - Single Phase -11kV 15kVA (2W HV)	
7	1	980392	TX - Single Phase -11kV 30kVA	
8	1	980393	TX - Single Phase -11kV 50kVA	
9	2	100108	Threaded Rod Galv M16 x 450, incl Nuts/Wash	
10	3	400066	Crimp LugCu 35mm² M12	
11	1	100028	Bolt and Two Nuts Galv M16 x 300	
12	1	100033	Bolt and Two Nuts Galv M16 x 425	
13	1	100162	Bolt and Two Nuts Galv M16 x 220	
14	1	100016	Bolt and Nut Galv M12 x 200	
15	2	100014	Bolt and Nut Galv M12 x 150	
16	2	100013	Bolt and Nut Galv M12 x 130	
17	1	100201	Bolt and Nut Galv M12 x 110	
18	3	100008	Bolt and Nut Galv M12 x 40	
19	4	100104	Washer Galv Spring M16	
20	2	250075-01	Fuse Base Dropout 22kV	
21	14	100105	Washer Round Galv M16	
22	9	100103	Washer Galv Spring M12	
23	6	100045	Washer Round Galv M12	
24	12	100132	Washer SS Round M12	
25	1	150065	Cable SD CU 35mm Red PVC Vintol	

- NOTES:**
- TO BE CONSTRUCTED IN ACCORDANCE WITH THE OVERHEAD LINE NETWORK CONSTRUCTION STANDARD ST-C1-2-004.
 - 25mm² COPPER OR FERRET ACSR MINIMUM FROM CONDUCTOR TAIL TO THE TOP OF DDO'S.
 - 25mm² COPPER CONDUCTOR MINIMUM REQUIREMENT FROM HV FUSE BASE TO TRANSFORMER BUSHING.
 - NUTS TO BE TIGHTENED TO CORRECT TENSION - 190Nm
 - TAIL MUST BE ATTACHED TO THE MAIN LINE WITH A SUITABLE AMPACT. REFER TO DRAWING 10.C4501.
 - FOR STANDARD EARTHING ARRANGEMENT FOR POLE MOUNTED TRANSFORMERS. REFER TO EARTHING DRAWING 320.G51N02.
 - AMPACT AND DEADEND TYPES TO BE SPECIFIED BY ENGINEER TO SITE SPECIFICATIONS.
 - LV BUSHING LINKS TO BE CONNECTED IN ACCORDANCE WITH LOW VOLTAGE DISTRIBUTION REQUIREMENTS.
 - 230 VOLT SINGLE PHASE
 - 460/230 VOLT SPLIT PHASE (AS SHOWN).

REV	Description	Drawn By	Date	Checked By	Date	Approved By	Date
A		CE	14/05/2025	AB	14/05/2025	SCC	14/05/2025

TOP ENERGY
Tepuna Hihiko

Level 2 John Butler Centre
40 Kaitiaki Road, Kaitiaki
PO Box 43, Kaitiaki 6045

Ph: 08 401 5440
Fax: 08 401 5605
www.topenergy.co.nz

Drawn:	CE	Date:	14/05/2025
Dwg checked:	VN	Date:	14/05/2025
Design checked:	AB	Date:	14/05/2025
Approved:	SCC	Date:	14/05/2025

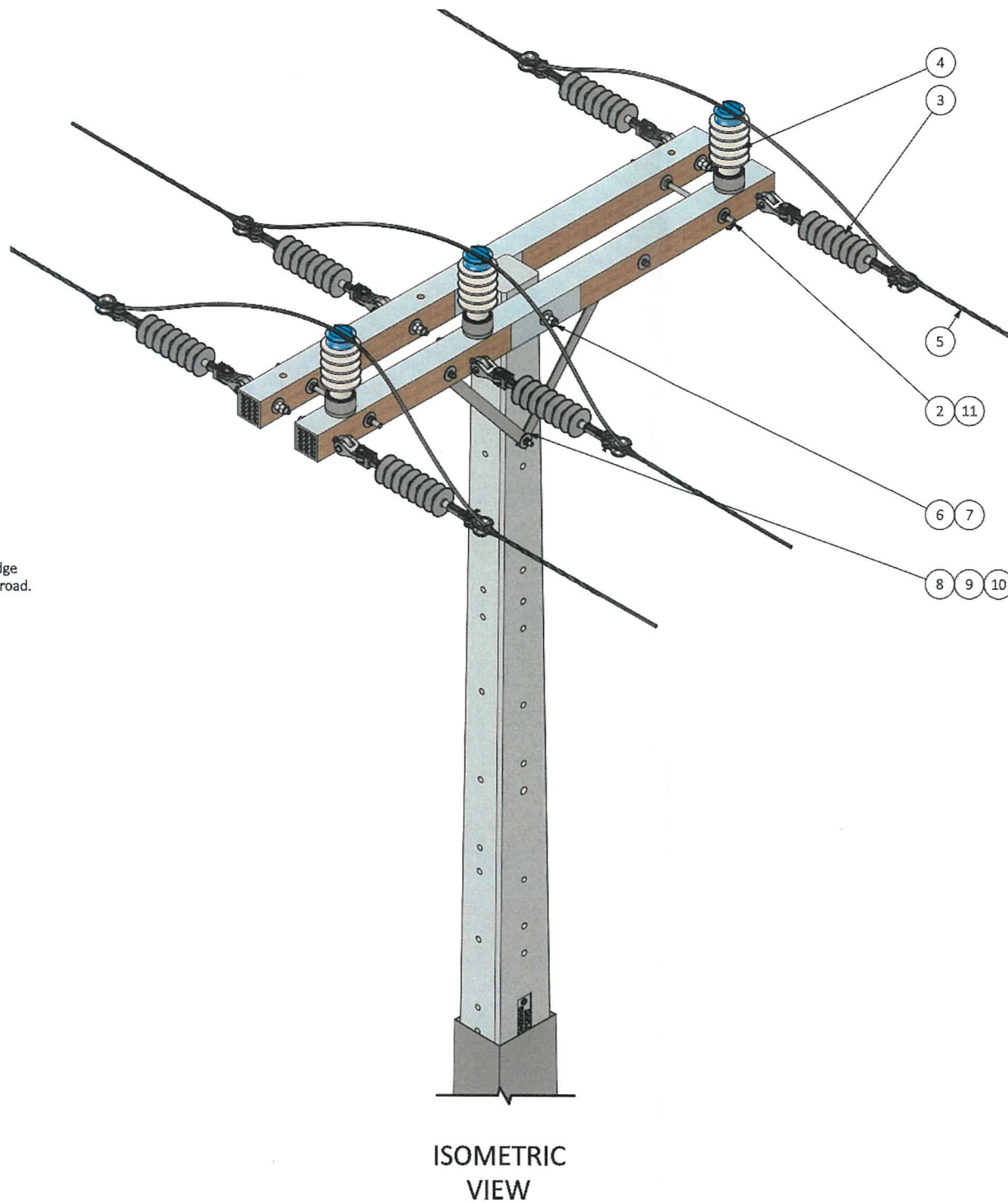
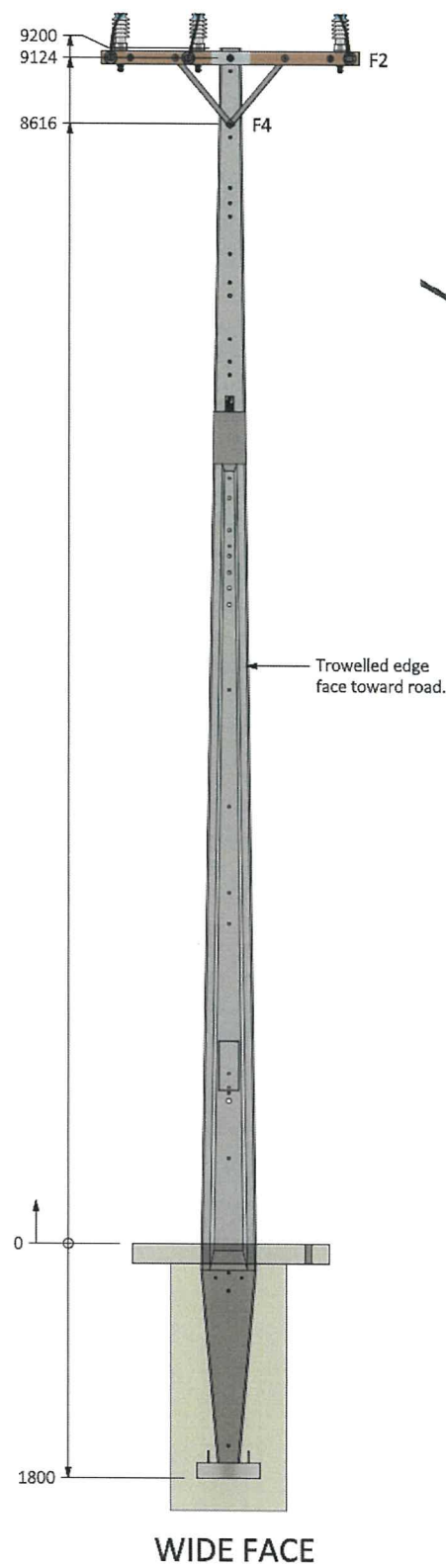
Project:	T - Transformer	DRAWING NUMBER	320.T32S00	REV	A
Drawing title:	15-50kVA 1Ph Pole Transformer on 11m Busck Pole				

[Handwritten signature]

TO BE REISSUED 30 DAYS AFTER: 3/02/2025
UNCONTROLLED DOCUMENT WHEN PRINTED.

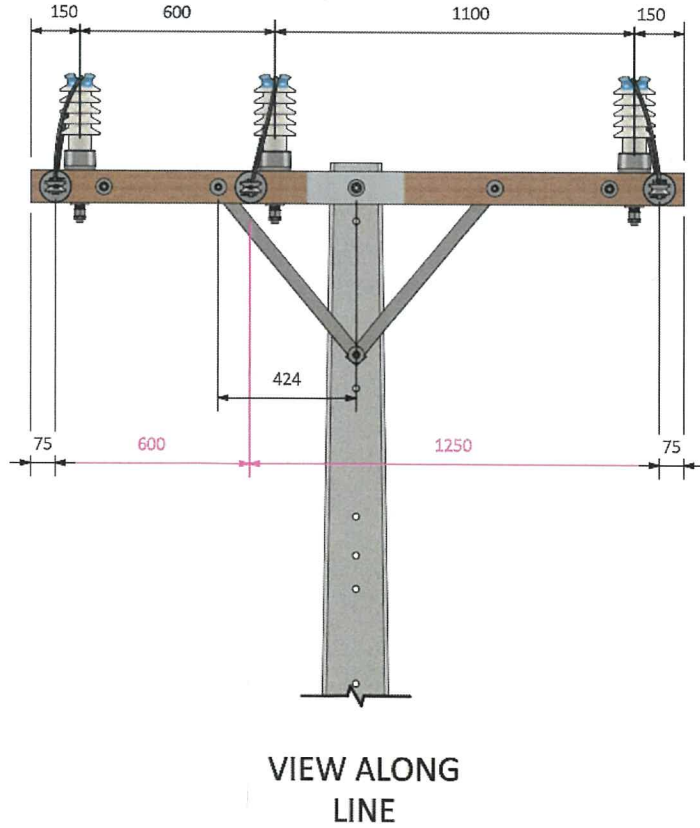
COPYRIGHT © TOP ENERGY 25/11/2024. ALL RIGHTS RESERVED.
UNAUTHORISED REPRODUCTION PROHIBITED.

D:\Vault\W5\Designs\TE Drawings\01 - Network CAD\O - Overhead\3 - HV Distribution
(11kV ~ 22kV)\20 - Standard Structures\P - Pole Head\320.P03S01.dwg



BOM 980687 - THRU TERM STRUCTURE USING 11m BUSCK POLE				
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION	FILE NAME
1	1	980287	11m Busck Single Pole Structure	010.P0002
2	1	980261	XARM-HW-100x100x2m Tapp Off/End Term 712 Brace	310.X0203
3	6	980260	Insulator Term DTR 25kV 160mm	310.I1300
4	3	350060	Insulator Line Post 11kV Porcelain 160mm	310.I1001
5	6	Note 9	Dead end	010.C4500
6	1	100032	Bolt and Two Nuts Galv M16 x 400	
7	2	100046	Washer Round Galv M16x50x3	
8	1	100016	Bolt and Nut Galv M12 x 200	
9	1	100103	Washer Galv Spring M12	
10	2	100045	Washer Round Galv M12	
11	4	100104	Washer Galv Spring M16	

- NOTES:**
1. TO BE CONSTRUCTED IN ACCORDANCE WITH THE OVERHEAD LINE NETWORK CONSTRUCTION STANDARD ST-C1-2-004.
 2. DRAWING SHOWS 2.0m STANDARD ARM ON BUSCK 11m.
 3. OTHER ARM AND POLE CONFIGURATIONS CAN BE USED AS DETAILED BY DESIGN.
 4. ARMS CAN BE FITTED TO EXISTING POLES USING APPROPRIATE ARMBRACE SELECTION.
 5. DISTANCE OF CROSSARM FROM TOP OF POLE DETERMINED BY DESIGN FOR SPAN LENGTH AND CONDUCTOR SIZE.
 6. SEE TOP ENERGY NETWORK ENGINEERS FOR ADVICE ON SPACING FOR NON DESIGN JOBS (FAULTS ETC).
 7. GENERALLY FIT CROSSARM 0.6M FROM TOP OF POLE UNLESS ADVISED.
 8. SELECT KING BOLTS FROM RESPECTIVE POLE KING BOLT TABLE DRAWING 010.P0001 TO 010.P0006.
 9. LINE TAP AMPACT, DEADEND AND DISTRIBUTION TIES ARE SITE SPECIFIC. ENGINEER TO SPECIFY CONDUCTOR TYPE AS REQUIRED



TOP ENERGY
Te Puna Hihiko
Level 2 John Butler Centre
60 Havelock Road, Newmarket
PO Box 48, Auckland 0245

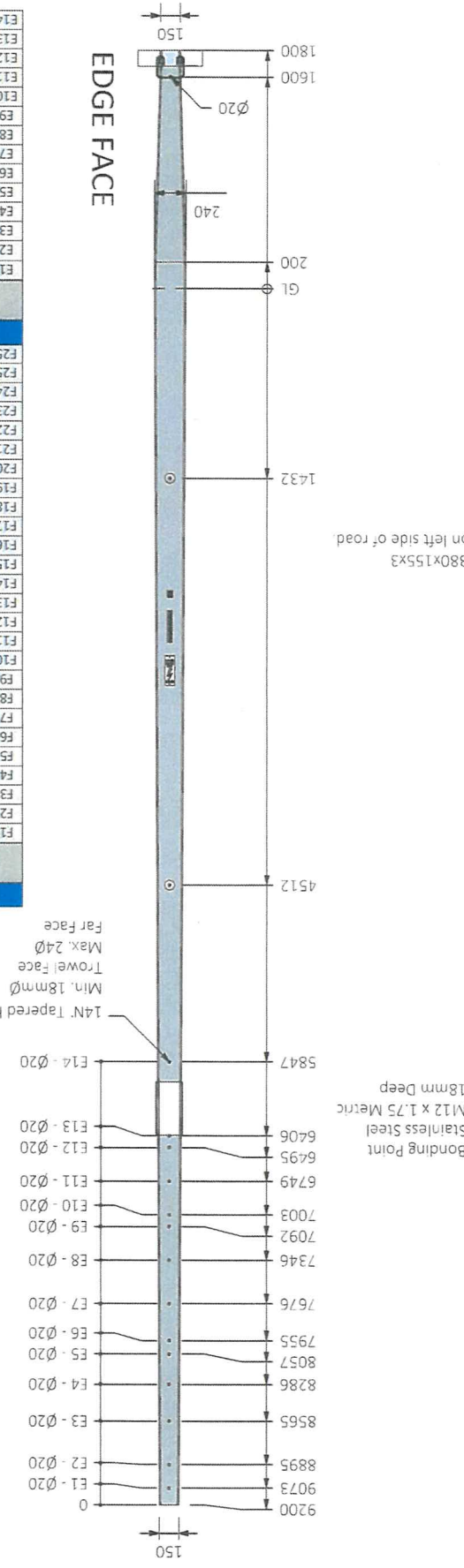
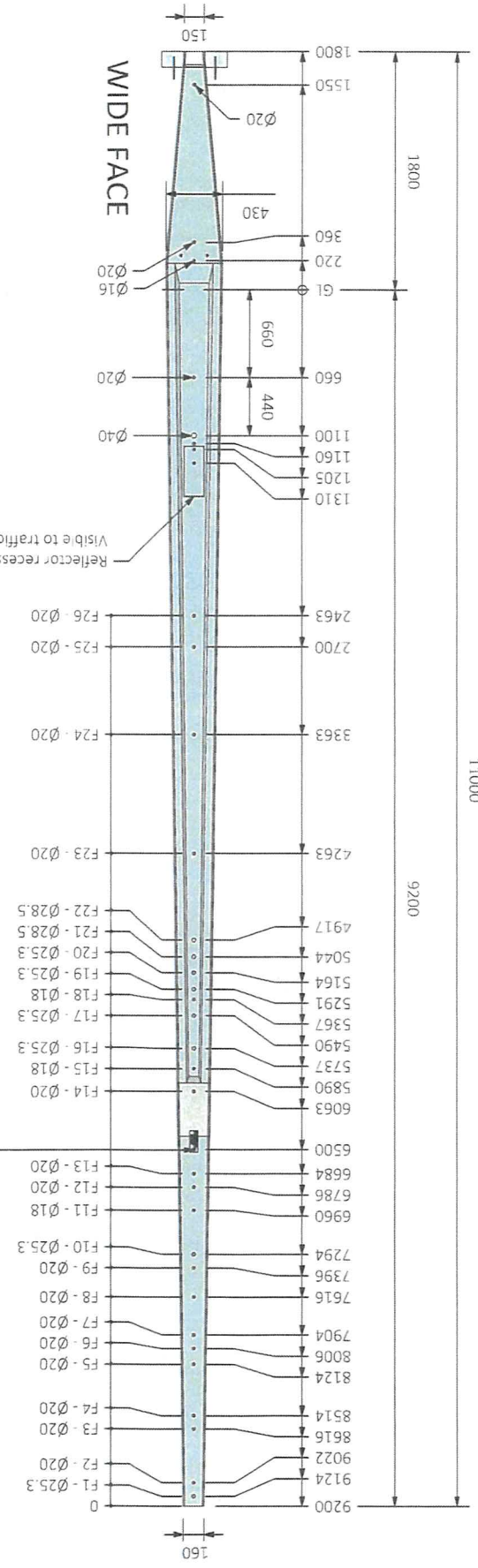
Ph: 09 401 5440
Fax: 09 401 5000
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Drawn:	VR	Date:	25/11/2024
Dwg checked:	VR	Date:	4/12/2024
Design checked:	AB	Date:	2/03/2025
Approved:	NS	Date:	2/03/2025

Project:	HV Distribution - Standard Structures	DRAWING NUMBER	320.P03S01	REV	A
Drawing title:	Thru Term Structure using 11m Busck Pole				

REV	Description	Drawn By	Date	Checked By	Date	Approved By	Date
A	Supersede Drawing 13P-6502-2	VR	20/06/2024	AB	20/06/2024	NS	8/07/2024

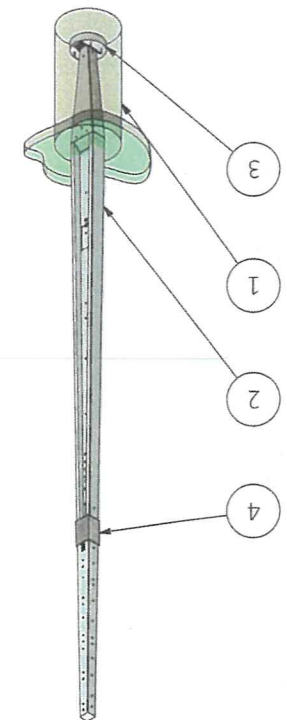
Technical drawing of a tapered shaft. The shaft is shown in a perspective view, tapering from left to right. A dimension line with arrows at both ends is positioned above the shaft, indicating its length. The diameter is labeled as $\varnothing 20$ at the right end of the shaft.

[illegible]

ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	S50108	Bag of Gao 40-0.5m2
2	1	S50021	Pole Concrete 11m Pre-Stressed
3	1	S50023	Pole Donut 490LT
4	1	S50005	Possum Guard

NOTES:

- All bolts to be grade 4.6 unless determined by specific design requirements.
- All king bolts must have a thread length of 65mm to 125mm (75mm for reworked bolts).
- All end term and through termination eyebolts shall be 60kn rated i.e. both 33kV and 11kV, unless otherwise specified by design.
- All new construction on Busck poles for installation of through strain insulator assemblies shall use a long eyebolt through both cross arms and an eye nut.



1. All bolts to be grade 4,6 unless determined by specific design requirements.
2. All king bolts must have a threaded length of 65mm to 125mm (75mm for reworked bolts).
3. All end term and through termination eyebolts shall be 60kn rated i.e. both 33kV and 11kV, unless otherwise specified by design.
4. All new construction on Busck poles for installation of through strain insulator assemblies shall use a long eyebolt through both cross arms and an eye nut

BOM: 980287			
ITEM	ITEM/ QTY	PART NUMBER	DESCRIPTION
1	1	550108	Bag of Gap 40-0.5m2
2	1	550021	Pole Concrete 11m Pre-Stressed
3	1	550023	Pole Donut 490LT
4	1	550005	Possum Guard

**ARCHAEOLOGICAL SURVEY AND ASSESSMENT
OF THE PROPOSED TOP ENERGY
STAGE 3 ALIGNMENT OF NEW POLES,
KOHUKOHU ROAD, HOKIANGA,
FAR NORTH.**

Prepared for
Top Energy Ltd
Kerikeri

By
Leigh Johnson & Elisabeth Callaghan
Northern Archaeological Research Ltd.

June 2025

NORTHERN ARCHAEOLOGICAL RESEARCH LTD

Archaeological Consultants

ARCHAEOLOGICAL SURVEY AND ASSESSMENT OF THE PROPOSED TOP ENERGY STAGE 3 ALIGNMENT OF NEW POLES, KOHUKOHU ROAD, HOKIANGA, FAR NORTH.

Background and Proposed Activity

Top Energy Ltd propose to complete the staged upgrading of the power supply to the North Hokianga (Broadwood-Mangamuka to Kohukohu). The proposal for Kohukohu Road is Stage 3 of the three-stage replacement of sections of pole alignments located on private land to an alignment within the FNDC Road Reserve. The Stage 3 section of replacement poles comprises the installation of a new alignment of poles along the existing road edge (FNDC Road Reserve-Kohukohu Road) (Figures 1 & 2). The proposal is to remove the wires from the existing poles and leave the poles in-situ or cut to just below ground level (T Collins pers Comm).

Stage 1 of the proposal was subject to an archaeological survey and assessment in November 2022 (Johnson and Callaghan 2022) and Stage 2 in May 2025 (Johnson 2025). The 2022 report and 2025 letter report should be referred to for general background information; survey results and recommendations. One archaeological site (O05/57) comprising the remains of a Pa is recorded in the area of the new pole alignment proposal (Figure 3).

Survey

As requested, Elisabeth Callaghan and I (Northern Archaeological Research Ltd) undertook a site visit to the area of the proposed Stage 3 alignment of 83 new poles on Broadwood Road between Mata Road (Urungaio) and (north) Smith Deviation Road (Oriwa), on the 9th June 2025 (Figures 1 and 2). All the new pole locations had been marked with a combination of pegs and pink spray paint. Every new pole location was easily able to be identified and assessed. Soil profiles were examined on the causeway connections to the mainland and road shoulder exposures were also examined where possible. The area of recorded site O05/57 was not visited as this is private land outside of the area of the Top Energy proposal. However, the information derived from the old land plans and aerial photographs was taken into account when making the determination for the recommendations.

Archaeological Background

One previously recorded archaeological site, O05/57, Oriwa Pa, is located at the southern end of the Stage 3 alignment. The pa was initially recorded in September 1976 by S Bartlett (former NZAA Northland Filekeeper) (Figure 3). It appears the site recording occurred as a result of a subdivision proposal-although no report is lodged with the HNZPT Digital Library. The location as site is recorded as; “*Approx. two thirds of the site has been totally destroyed by road construction activities and allied bulldozing. Proposed subdivision would complete destruction...Formerly an island now joined to mainland by recently constructed road. Above the quarried portion on the north and west scrub covered terraces rise to tihi. Copious cockle midden on lower slopes. Face of recent bulldozer cut shows two overlapping sunken floors about 3.5m wide. Soil has been intermixed with shell in all surface disturbances noted. Broken portion of clay pipe bowl and stem found on edge of lowest terrace. Human remains were unearthed during roadmaking activities*” (Bartlett 1976).

Bartlett also included a sketch diagram of the Pa, showing the extent of the former island Pa in relation to the “new road”; and shows the extent of the earthworks “edge of excavation” in 1976

(Figure 4). A house is noted in the south western area below and in the area excavated. The owner is noted as Mrs A.L. Smith.

In 1979 the Pa was revisited by A. Leahy and W. Walsh as part of a general survey of the Ahipara, Kaitaia, Herekino and North Hokianga, within which Oriwa Pa appears to have been at the northern edge of an “Intensively surveyed area” (Leahy & Walsh 1979). The site record form states there is a house and bulldozed platform at the northern end of the Pa but does not mention the house on the west side of the remains of the Pa. The form states the platform was bulldozed in 1969 and that the {Pa?} was “checked by the Trust before house built”. It is not confirmed, but is likely this statement refers to the site visit undertaken by S. Bartlett in 1976. The Pa is described as a “Possibly a swamp pa” (Leahy & Walsh 1979). A sketch of the remaining Pa is on the Site Record Form (Figure 5). The owner at the time is noted as Mr Hauraki.

The final visit to Oriwa Pa was made in 1988 by J Maingay (Department of Conservation-Northland Regional Archaeologist). It is understood that the site visit was undertaken in relation to further house development on the Pa, however no report pertaining to the site visit is lodged in the HNZPT Digital library. A sketch plan of the Pa is appendicised to the 1988 Site Record Form (Figure 6). The two houses are shown in relation to the terraces; an area of dense shell midden along the shore line; and a hangi feature. Also noted is a list of artifacts “found along the foreshore” comprising two 2B adzes; a polished adze flake; and a hammerstone. The Pa is described as a “Pa site on previous island. Well established bush with some large karaka and puriri trees on the top and E. slope”. No owner is noted.

The location of the proposed alignment (including the location of Oriwa Pa) is not noted as an area of cultural significance on the FNDC Operative District Plan. The location is in an area of Treaty Settlement (Te Arawhiti-Te Rarawa) and Statutory Acknowledgement.

Historic Background

A search of the old land plans and historic charts related to the area of the new alignment was undertaken. Other than Oriwa Pa, Lee’s *Historical Maps* (Lee 1969) shows no cultural or historic information for the area of the proposed alignment (Figure 7). In his book *Hokianga* (Lee 1987) Lee includes a plan which indicates the northern end of the alignment is adjacent to “Totara Point” where Bishop Pompallier initially established the Catholic church in the Hokianga. Today the location is known as Urungaio. The location is to the east and outside of the Top Energy Proposal.

The earliest chart located is dated 1838 (Figure 8) and, other than *Motete* [Motiti] Island, no cultural or historic information for the area in question. The map appears to have been prepared in anticipation of the Catholic church (Bishop Pompallier) arriving in the North Hokianga c.1838.

The earliest chart which shows the area with any relevant information is dated 1851 (Figure 9). However, a further chart (Figure 10) made at during the same voyage shows *Cochrane Point* in the north; and a small island in the south (just north of the Narrows and *Motiti* Island), labelled *Korua*. This appears to be in the location of *Oriwa* Pa.

A series of cadastral maps 1906-1972 and aerial photographs were also reviewed (Figures 11-14; Plates 3-4). These show the reclamation of the shallow estuary to the west of the island Pa and the reassignment of the original foreshore road into a “deviation road” (Smiths Deviation Road) and the establishment of the Kohukohu road by the construction of a causeway through

the reclamation and excavating away the majority of the island Pa. Based on the aerial photographs, the “new road” appears to have been completed by 1968.

It is our understanding that no further visits to Oriwa Pa have been made by consultant archaeologists, in relation to Oriwa Pa.

Survey Results

As a result of the fieldwork on the 6th June 2025 we can confirm that, no archaeological sites, features or remains appear to be affected for all (but one) of the pole replacement locations in the proposed Stage 3 pole alignment replacement programme. The proposed works occur for the most part within areas of road shoulders and/or causeways built over old seabed (Plates 3-5). Similarly, no pre 1900 sections of road were identified as affected. As such, all the poles, except K183, can be installed at the marked locations without further reference to the Heritage New Zealand Pouhere Taonga Act 2014 and can proceed under an Accidental Discovery Protocol.

In relation to pole K183. This pole is proposed to be located on the lower west flank of former Island Pa, O05/57. As is evident from the site record forms, any remains associated with the western landward side of former Korua Island (and O05/57) (such as terracing and pits) in the area of the Top Energy proposal appear to now be destroyed (as originally stated by S Bartlett in 1976), modified or buried (Plates 6-8 and Figure 4). However, given that human remains were found in the general area when the road was established across the base of the former island pa in the mid to late 1960s; and that the pole will be installed to a depth of some 1.8m, we advise that this pole is monitored by NAR Ltd to check the exposed profile for any potential unrecorded archaeological remains.

Should the Stage 3 proposal be amended for any reason, the amendment should be passed on to NAR Ltd for evaluation and comment.

Conclusion

Northern Archaeological Research Ltd were commissioned by Taryn Collins (Top Energy Ltd) to survey the proposed alignment of new poles on Kohukohu Road between Urungaio and Oriwa, near Kohukohu in the Hokianga, Far North. One archaeological site (O05/57) is located in the area of the proposal O05/57. Recommendations are made in accordance with the archaeological provisions of the Heritage New Zealand Pouhere Taonga, 2014, and standard procedures.

Reference:

- Johnson, L. 2025. Pers Comm. Letter Report Re: Archaeological Survey and Assessment of the Proposed Stage 2 alignment of new poles, Broadwood, Hokianga, Far North. Dated 14th May 2025.
- Johnson, L. and Callaghan, E. 2022. Archaeological Survey and Assessment of the Proposed Top Energy Ltd Stage 1 Alignment of new poles, Hokianga, Far North. *Unpublished Report*. Auckland: Northern Archaeological Research Ltd.
- Leahy, A. and Walsh, W. 1979. Archaeological Site Survey Report: Ahipara, North Hokianga and Kaitaia. *Unpublished Report*. Auckland: NZ Historic Place Trust.
- Lee, J. 1969. *Historic Maps* MS.
- Lee, J. 1987. *Hokianga*. Auckland: Hodder and Stoughton.

Recommendations

1. With the exception of K183, no archaeological sites, features or remains appear to be affected by the proposed Stage 3 pole alignment proposal. All the poles (except K183), can be installed at the marked locations under an Accidental Discovery Protocol, without further reference to the Heritage New Zealand Pouhere Taonga Act 2014.
2. In the unlikely event that undetected subsurface archaeological remains are uncovered during earthworks associated with the pole replacement at these locations, all work affecting such remains should cease immediately and Northern Archaeological Research Ltd be contacted immediately so that appropriate action can be taken.
3. In relation to pole K183 located on the lower west flank of former Island Pa, O05/57, we advise that this pole is monitored by NAR Ltd to check the exposed hole profile for any potential unrecorded archaeological remains.
4. Any change to the proposed works for the Stage 3 proposal (as assessed in this report), will need to be subject to archaeological evaluation by NAR Ltd.
5. The survey of the proposal was conducted specifically to locate and record archaeological remains. The survey and report does not necessarily include the location and/or assessment of wahi-tapu or sites of cultural or spiritual significance to the local Maori community, who may be approached independently for any information or concerns they may have.



FIGURE 1. THE LOCATION OF THE PROPOSED STAGE 3 ALIGNMENT OF NEW POLES, KOHUKOHU, HOKIANGA, FAR NORTH (Courtesy of Top Energy Ltd-June 2025).

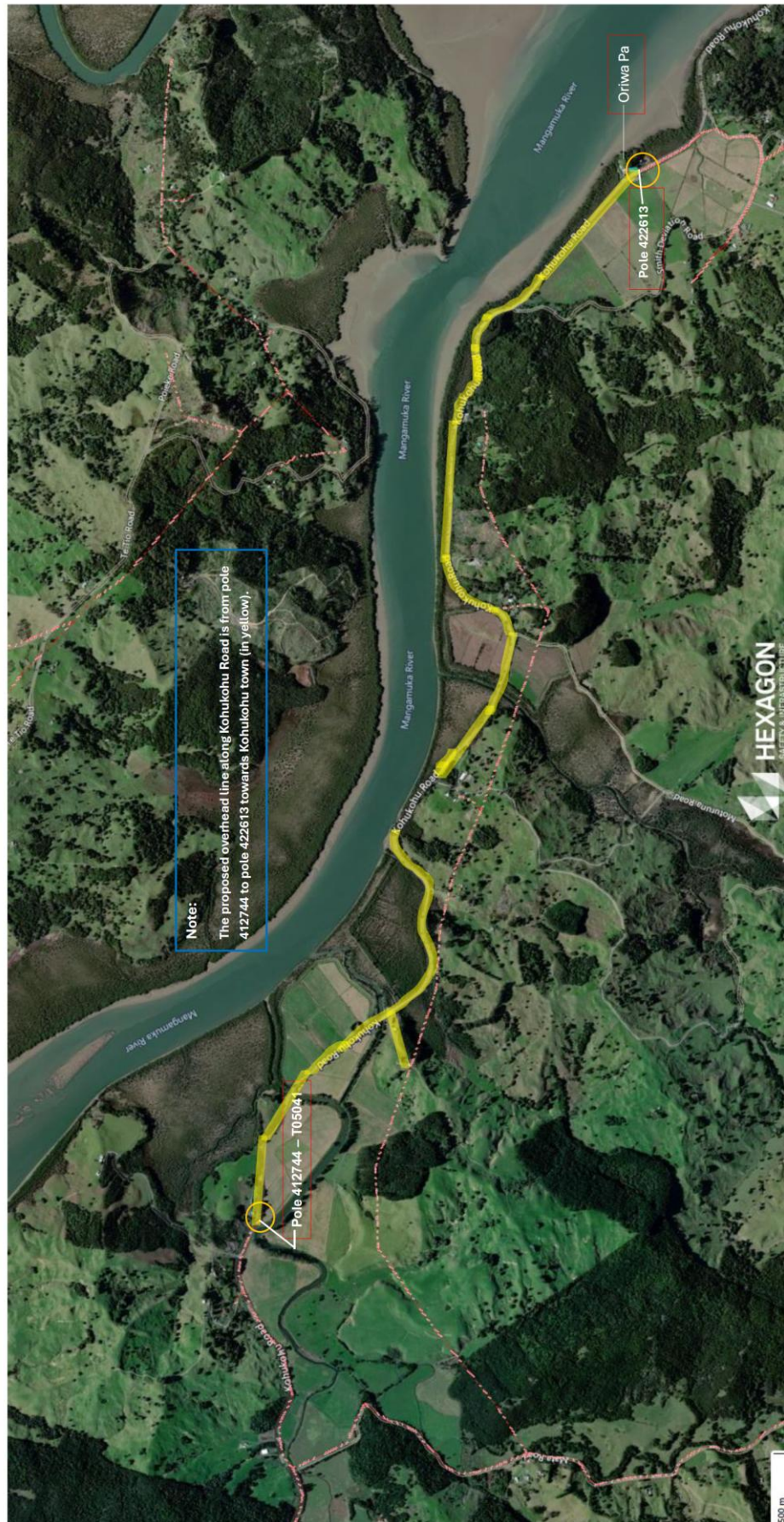


FIGURE 2. THE PROPOSED STAGE 3 ALIGNMENT OF NEW POLES, KOHUKOHU ROAD, HOKIANGA, FAR NORTH (from pole 412744-422613) (Courtesy of Top Energy Ltd-June 2025).



FIGURE 3. THE PREVIOUSLY RECORDED ARCHAEOLOGICAL SITES (stars) IN THE AREA OF THE TOP ENERGY PROPOSAL (proposal located between the red arrows) AND THE LOCATION OF O05/57 ORIWA PA (Courtesy of Archsite June 2025).

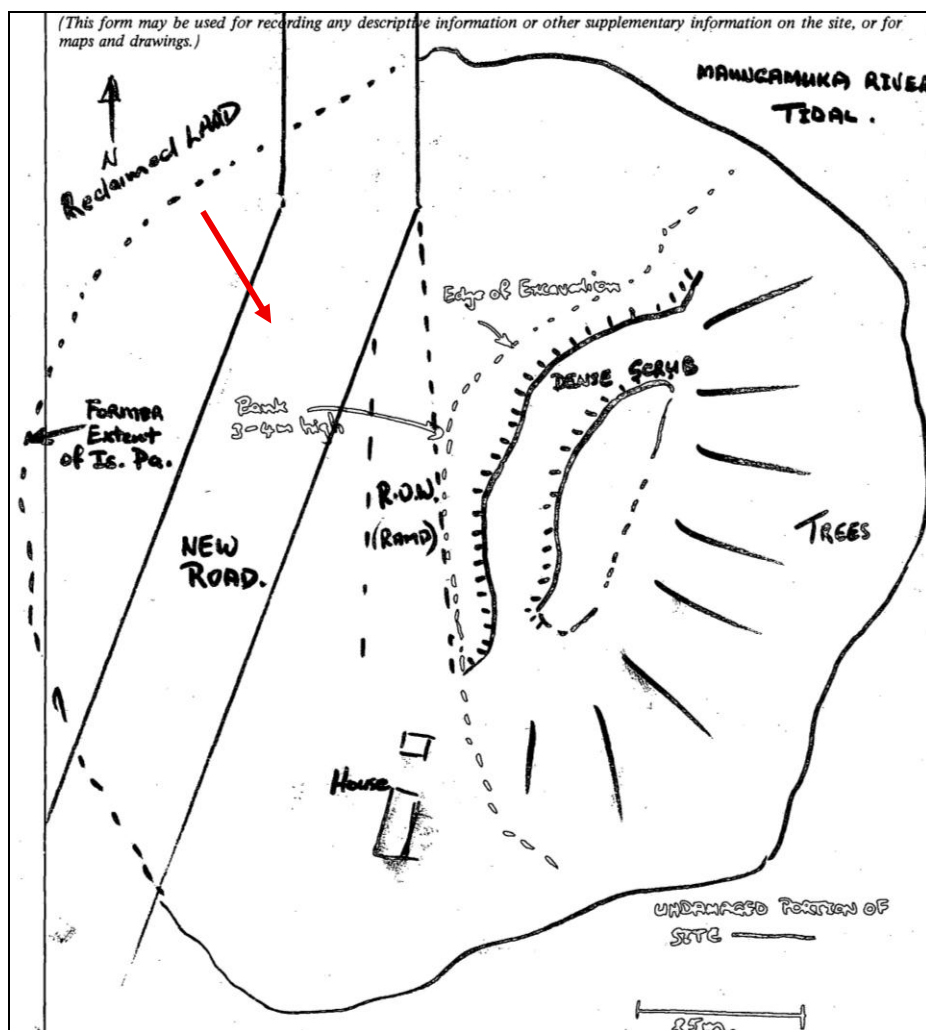


FIGURE 4. DETAIL OF THE 1976 A.I.F SKETCH PLAN OF O05/57, ORIWA PA (Bartlett 1976) SHOWING THE EXTENT OF THE FORMER ISLAND PA IN RELATION TO THE “NEW ROAD”. APPROXIMATE LOCATION OF K183 SHOWN (Red Arrow).

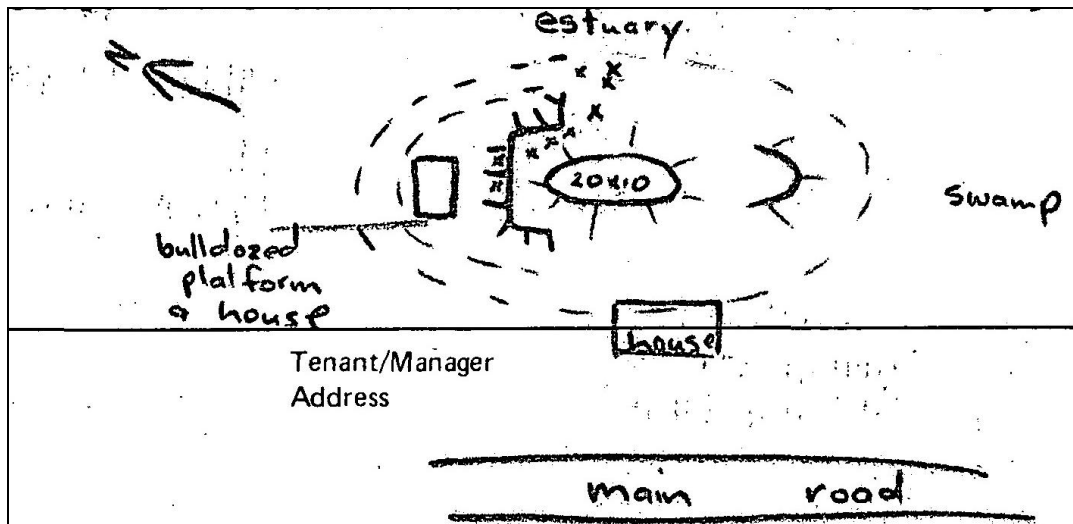


FIGURE 5. DETAIL OF THE 1979 SRF SKETCH PLAN OF O05/57, ORIWA PA (Leahy & Walsh 1979).

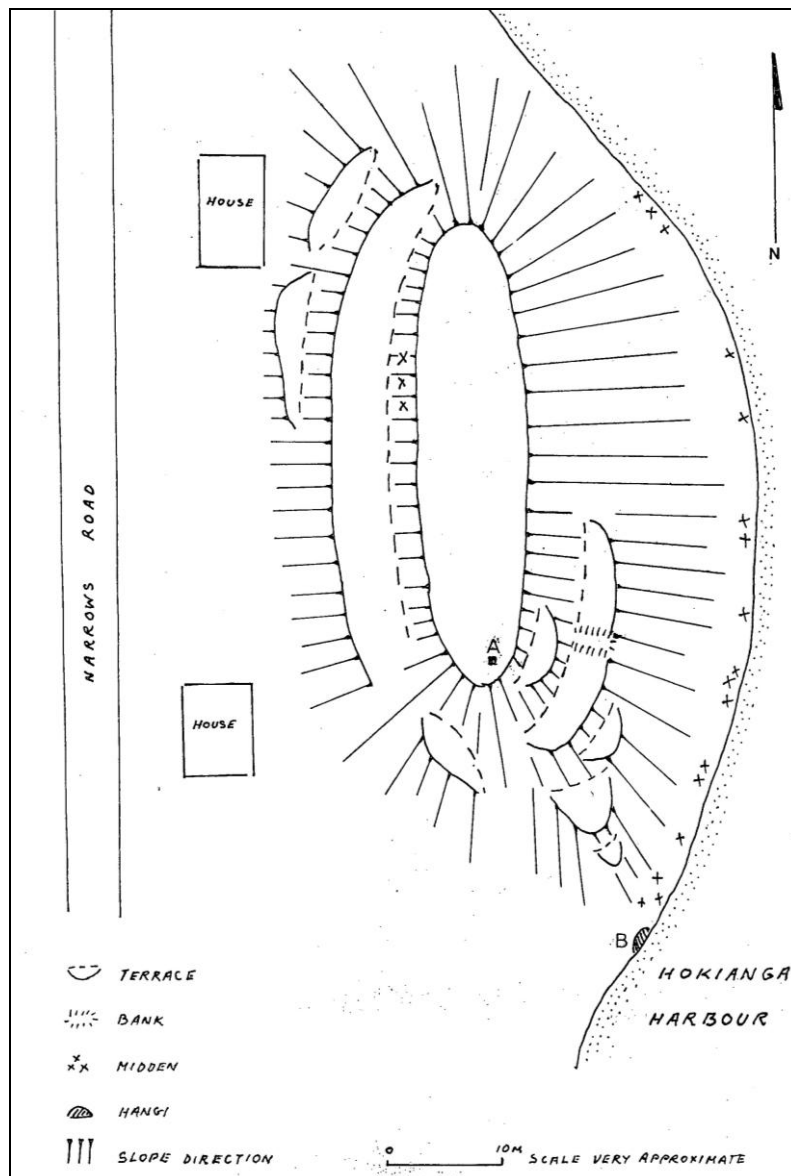


FIGURE 6. THE 1988 NZAA SRF SKETCH PLAN OF O05/57, ORIWA PA (Maingay 1988).

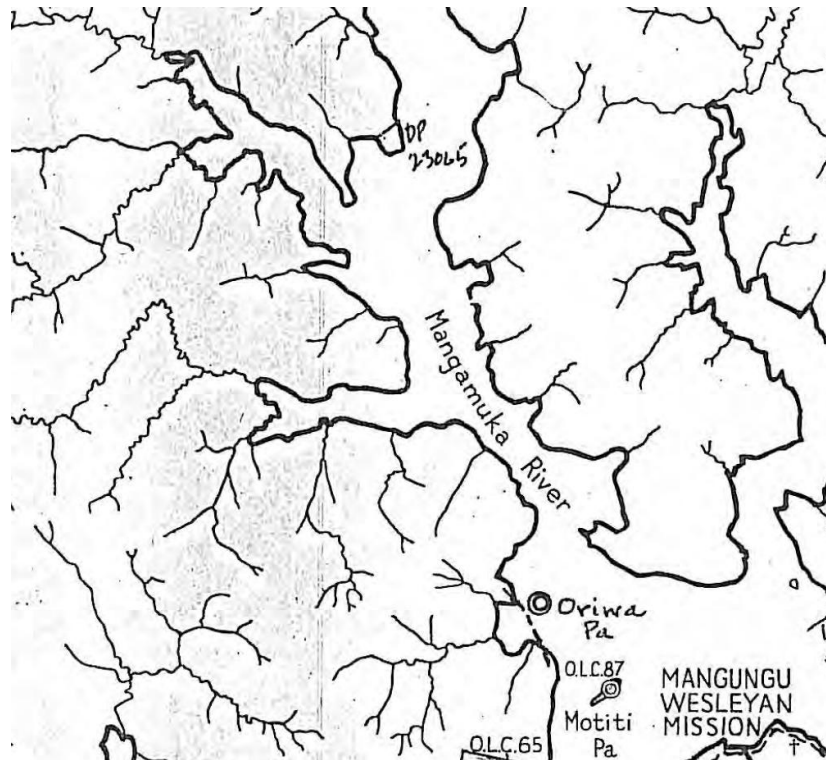


FIGURE 7. DETAIL OF LEE'S HISTORIC MAPS SHOWING *ORIWA PA* AND *TOTARA POINT (DP 23065)* (Courtesy of Lee 1968).



FIGURE 8. DETAIL OF THE 1838 MAP ENTITLED *HOKIANGA HARBOUR* SHOWING THE WESLEYAN CHAPEL SITES; SETTLEMENTS; NAMED PLACES; AND TRIBUTARIES OF THE NORTHERN HOKIANGA HARBOUR (Courtesy of Auckland Libraries Heritage Collections Reference: Map 9507)



FIGURE 9. DETAIL OF THE 1849-1855 *PANDORA* CHART OF THE MANGAMUKA RIVER, SHOWING THE TRIBUTARIES OF THE HOKIANGA HARBOUR AND *KORUA* ISLAND (Courtesy of Auckland Libraries Heritage Collections Reference: Map 866)

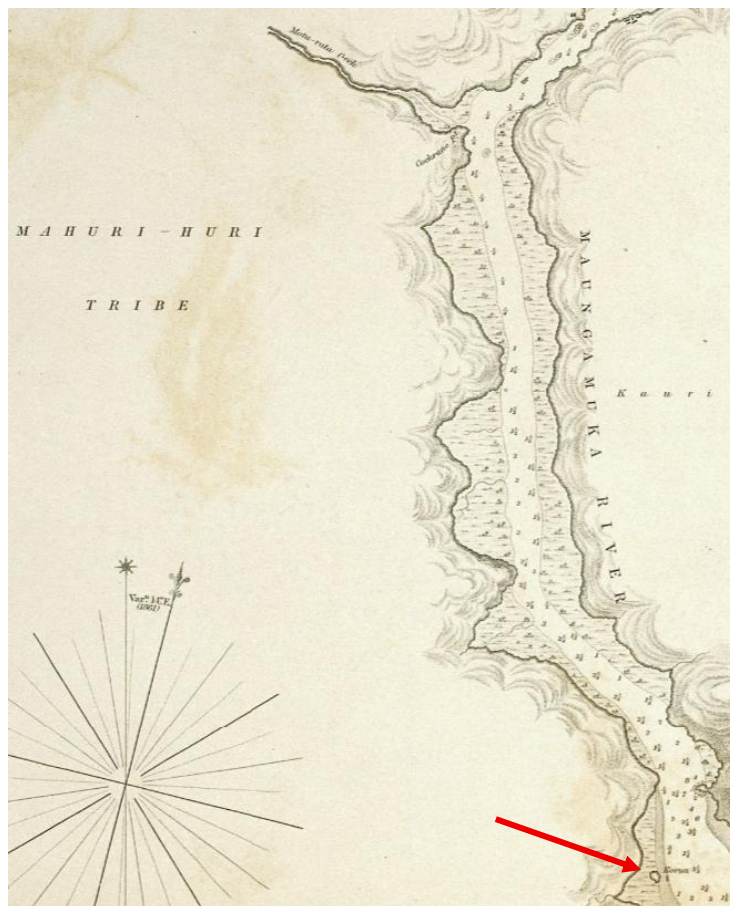


FIGURE 10. DETAIL OF THE 1851 *PANDORA* CHART OF THE MANGAMUKA RIVER, SHOWING THE LOCATION OF *KORUA* (Courtesy of Auckland Libraries Heritage Collections Reference: Map 3918)

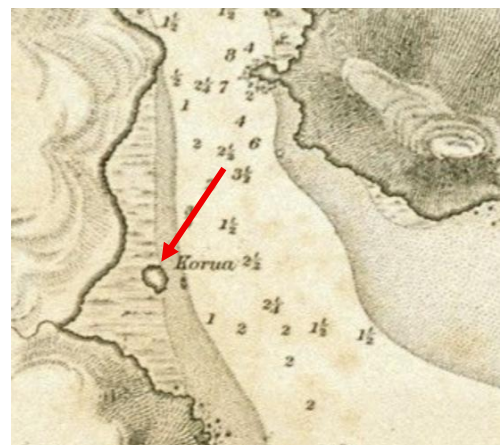


FIGURE 10A. DETAIL OF THE 1851 CHART, SHOWING *KORUA* IN THE ESTUARINE SECTION OF THE RIVER



FIGURE 11. DETAIL OF THE CADASTRAL MAP DATED c1900-1910 (c.1906) OF HOKIANGA SHOWING THE AREA OF THE TOP ENERGY PROPOSAL. Note: The island is shown but the name blurred. It appears to be *Korua*, not *Oriwa* (Courtesy of Auckland Libraries Heritage Collections Reference: Map 3705).



FIGURE 12. DETAIL OF THE CADASTRAL MAP DATED 1922 OF HOKIANGA SHOWING THE AREA OF THE TOP ENERGY PROPOSAL. *ORIWA/KORUA* NOT SHOWN (Courtesy of Alexander Turnbull Library Reference: Alma MMSID 9913939773502836).

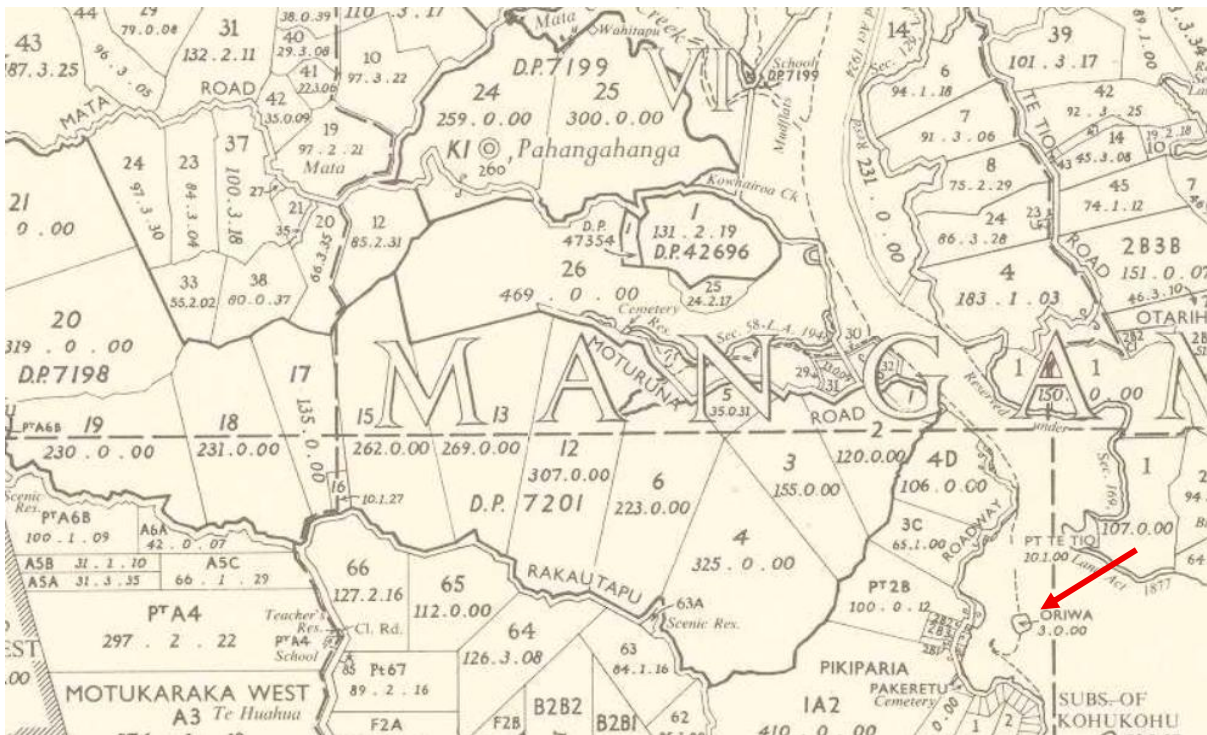


FIGURE 13. DETAIL OF THE CADASTRAL MAP DATED 1966 OF THE *MANGAMUKA DISTRICT*, SHOWING *ORIWA* AS AN ISLAND (Courtesy of Alexander Turnbull Library Reference: Alma MMSID 9915771643502836).

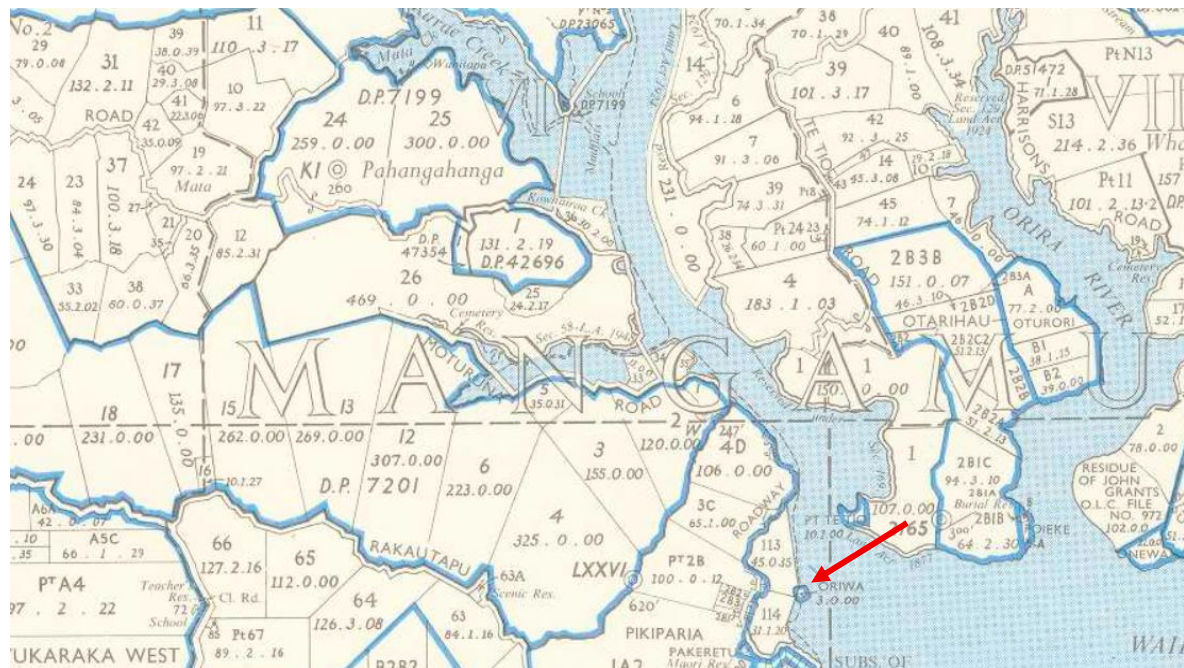


FIGURE 14. DETAIL OF THE CADASTRAL MAP DATED 1972 OF THE *MANGAMUKA DISTRICT*, SHOWING *ORIWA* ON THE EDGE OF A RECLAIMED ESTUARY (Courtesy of Alexander Turnbull Library Reference: Alma MMSID 991612773502836).

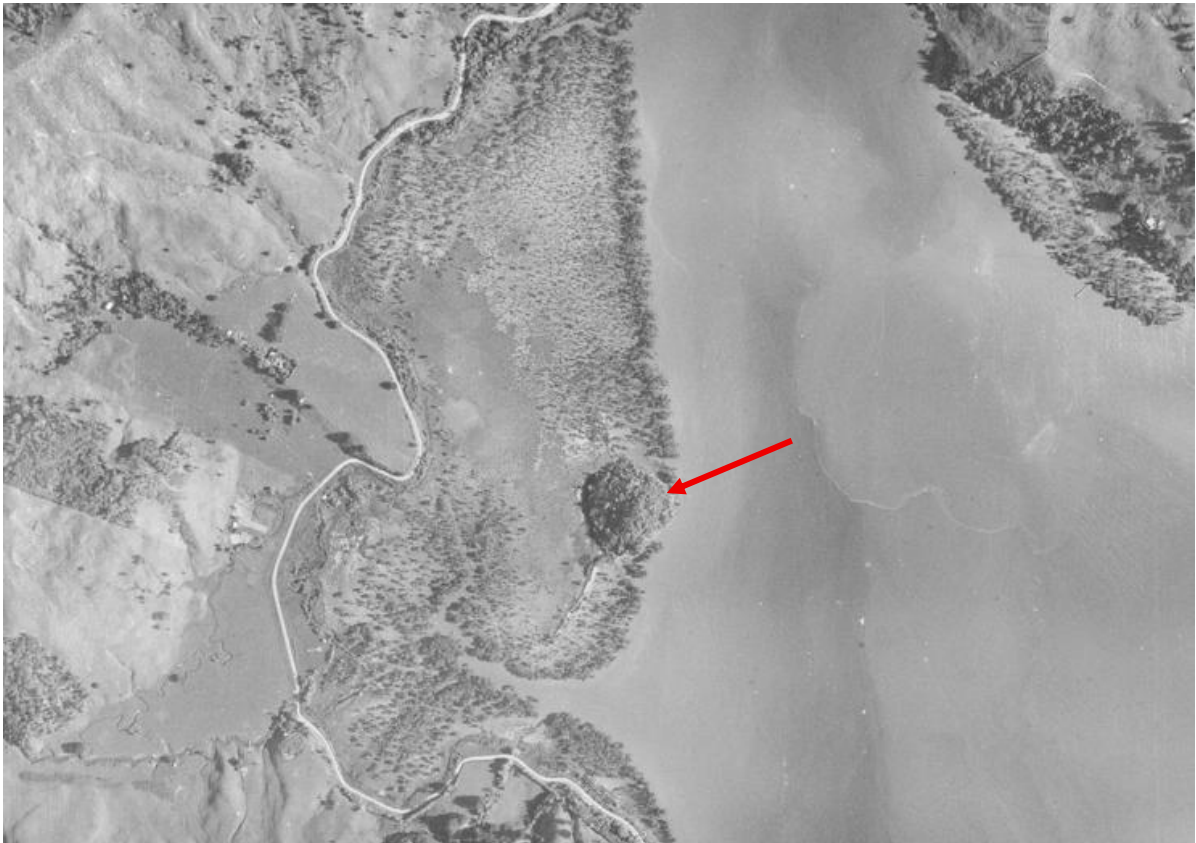


PLATE 1. DETAIL OF AN AERIAL PHOTOGRAPH DATED 1942 SHOWING *ORIWA/KORUA* ISLAND AND THE FORMER KOHUKOHU ROAD (now Smith Deviation Road) (Courtesy of *Retrolens* Reference: SN209 RN548/21).



PLATE 2. DETAIL OF AN AERIAL PHOTOGRAPH DATED 1968 SHOWING *ORIWA PA /KORUA* ISLAND AND THE “NEW” KOHUKOHU ROAD (Courtesy of *Retrolens* Reference: SN3025 RN5026/8).



PLATE 3. POLE 412744, THE BEGINNING OF THE NEW ALIGNMENT AT URUNGAIA (THE NORTH END) (View to the south-east).



PLATE 4. AN EXAMPLE OF THE CAUSEWAYS BUILT ACROSS FORMER ESTUARINE BAYS/INLETS (View to the south).



PLATE 5. AN EXAMPLE OF THE RECLAIMED ESTUARINE FLATS WITH SEABED SHELL EXPOSED IN THE DREDGINGS (View to the north west).



PLATE 6. THE LOCATION OF PROPOSED POLE K183; AND POLE 422613 AT THE SOUTHERN END OF THE ALIGNMENT. RANGING POLE AND EXPOSED SOIL PROFILE (View to the south).



PLATE 7. THE REMNANT AREA OF O05/57 ORIWA PA/KORUA ISLAND ABOVE AND TO THE EAST OF THE POLE ALIGNMENT AT THE SOUTHERN END (View to the east).



PLATE 8. THE LOCATION OF PROPOSED POLE K183 IN RELATION TO THE RECORDED REMAINS OF ORIWA PA-KORUA ISLAND.



FIGURE 15. THE LOCATION OF PROPOSED POLE K183 IN RELATION TO THE RECORDED REMAINS OF ORIWA PA-KORUA ISLAND.

APPENDIX

NZ Archaeological Association Site Record and
Additional Information Forms

NAR Ltd Spreadsheet (Fieldnotes on new pole locations)
Top Energy Pole location plans

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM

Map number NZMS 1 N14
 Map name Hokianga
 Map edition 2nd. 1982
 Grid Reference 056417

SITE NUMBER

N14/5

SITE NAME: MAORI
 OTHER Oriwa

SITE TYPE (Former) Is. Pa

1. Aids to relocation of site ^{E105600 N8241700} The site is located on the main road 2km north of Kohukohu, and lies between the road and the Mangamuka river. Access is either from State highway 1 at Mangamuka Bridge or from south via Rawane using vehicular ferry.
2. State of site; possibility of damage or destruction Approx. two thirds of the site has been totally destroyed by road construction activities, and allied bulldozing. Proposed subdivision would complete destruction.
3. Description of site (NOTE: This section is to be completed ONLY if no separate Site Description Form is to be prepared.)
 Formerly an island now joined to mainland by recently constructed road. Above the quarried portion on the north and west scrub covered terraces rise to tihī. Copious cockle midden on lower slopes. Face of recent bulldozer cut shows two overlapping sunken floors about 3.5m wide. Soil has been intermixed with shell in all surface disturbances noted. Broken ~~egg~~ portion of clay pipe bowl and stem found on edge of lowest terrace. Human remains were unearthed during roadmaking activities.

4. Owner Mrs. A L. Smith.
 Address P.O. Box 54
 Kohukohu.

Tenant/Manager
 Address

Attitude

Attitude

5. Methods and equipment used Scrambled over site.

Photographs taken: Yes/~~No~~ (Describe on Photograph Record Form)

Date recorded 15.8.76.

6. Aerial photograph or mosaic No.

Site shows:
 Clearly/badly/not at all

7. Reported by S.M Bartlett
 Address 50 Cairnfield Rd.
 Whangarei.

Filekeeper

Date 5.9.76.

Date

5/9/76.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE DESCRIPTION FORM

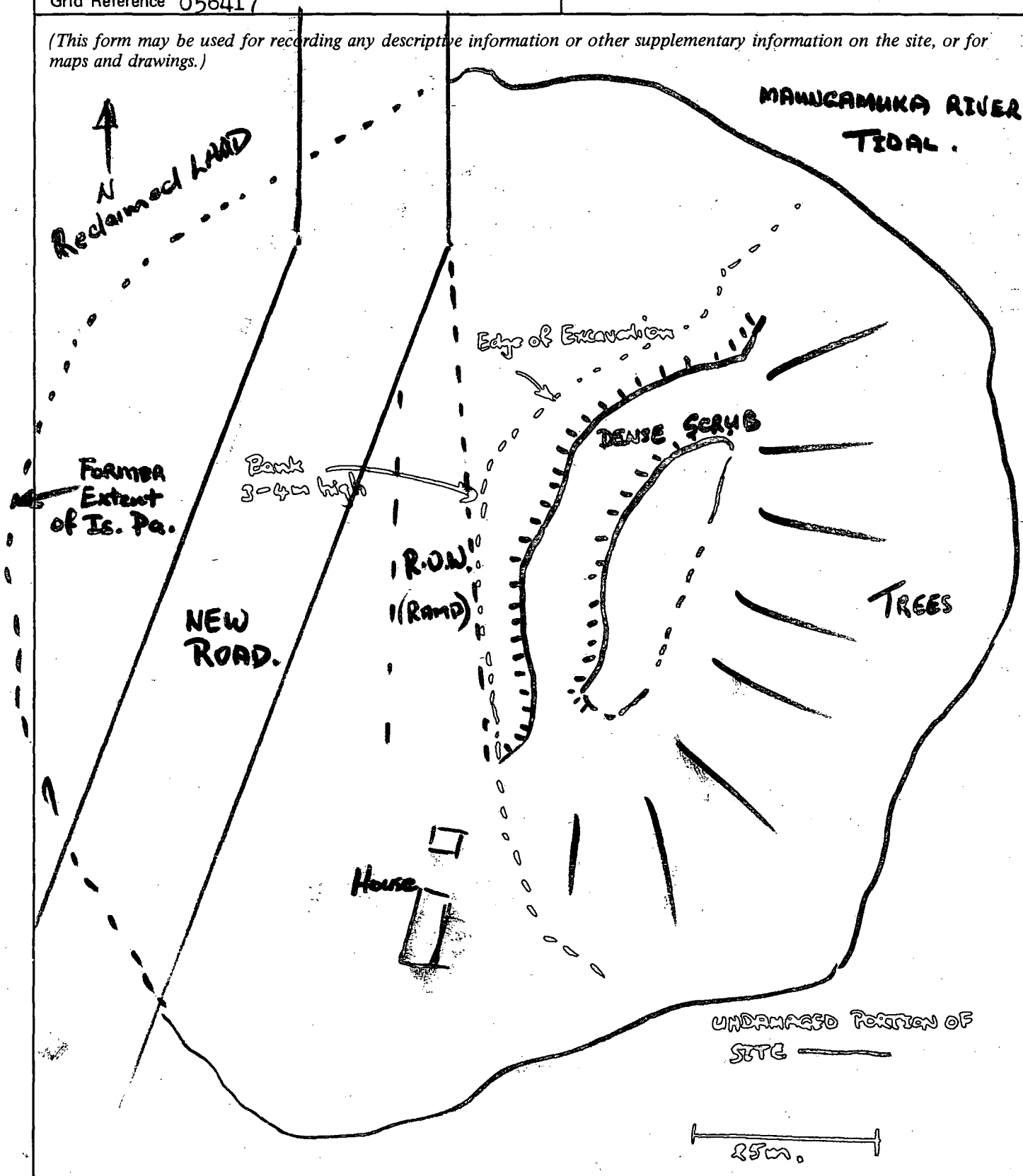
SITE NUMBER N/14 /5

SITE NAME: MAORI Oriwa
OTHER

SITE TYPE Former Island Pa

Map Number NZMS 1 ~~NX~~ N14
Map Name Hokianga
Map Edition 2nd. 1972
Grid Reference 056417

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



SITE RECORD FORM (NZMS1)

NZMS 1 map number **NI4**
 NZMS 1 map name **Hokianga**
 NZMS 1 map edition **2nd edit. 1972**

NZAA NZMS 1 SITE NUMBER **NI4/5**
 DATE VISITED **5/3/79**
 SITE TYPE **Pa**
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting

1 0 5 6 (on file)

Northing

8 4 1 7 0 0

1. Aids to relocation of site (*attach a sketch map*)

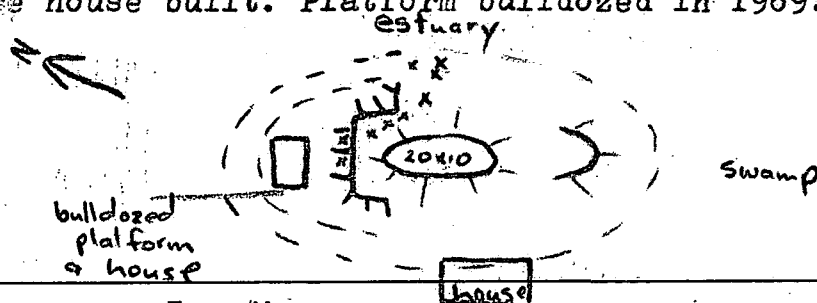
Situated on small hill with estuary on east side and road on the west side. Bulldozed platform and house at north end.

2. State of site and possible future damage

Poor; large section of site bulldozed away.
 Rest in regenerating bush.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

Pa. Possibly a swamp pa. Much midden in bank at top of bulldozed area - mostly cockle and mud snails with charcoal. Few surface features to be seen. Flattish 20 x 10 platform on top, ill-defined ledge terrace along east side. Possible terrace at south end. Checked by the Trust before house built. Platform bulldozed in 1969.



4. Owner **Mr. Hauraki,**
 Address **Mohuiti Rd.,**
Kohukohu.

Tenant/Manager
 Address

main road

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Walking over site**

Photographs (*reference numbers, and where they are held*) **No**

Aerial photographs (*reference numbers, and clarity of site*) **2589/16 & 17** **not visible**
SN 5006 C/16

6. Reported by **W. Walsh,**
 Address **Auckland.**

Filekeeper **p.p. S.M.B.**
 Date **13/12/79**

7. Key words

Pa, swamp hill pa?, midden, damaged

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

C	C
B	C
A	E

Type of site

Local environment today

Land classification

B	C
A	A
C	R

Present condition and future danger of destruction

Security code

Local body

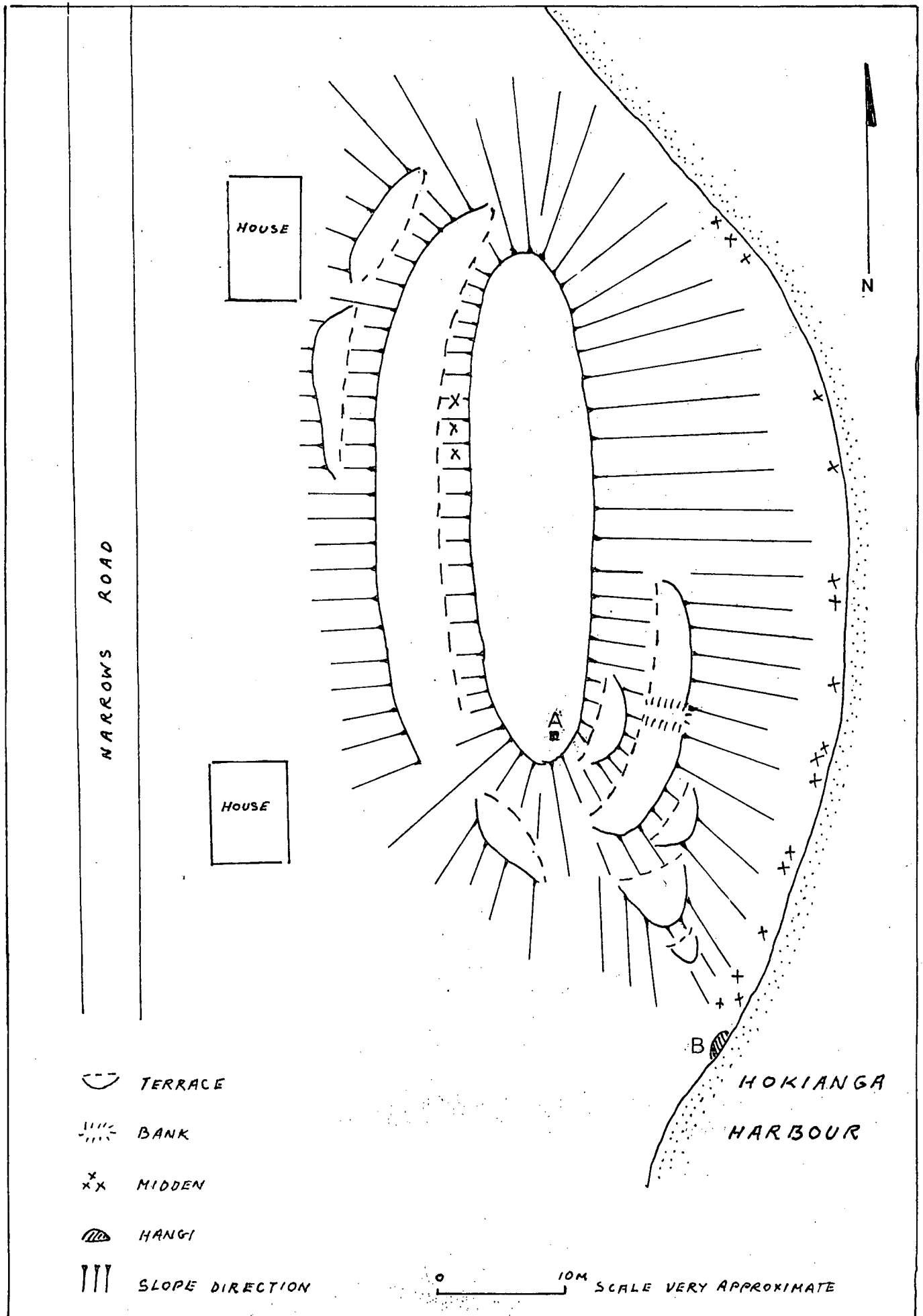
Oriwa Pa, N14/5, cont:

Artefacts.

Stone artefacts found along the foreshore.

1. Broken waterworn 2b adze, width 70mm, length 100mm+, very rounded quadrangular cross-section 35 x 70mm.
2. Broken waterworn 2b adze, width 43mm, length 70mm+, slightly rounded quadrangular cross-section.
3. Polished adze flake 28 x 52mm.
4. Well-used hammerstone 70mm in diameter.

Attached plan of pa is only very approximate owing to dense undergrowth. There may be further unrecorded features.



Pole Number	pole	Page	Situation- access-site vegetation-side of road
412744	start	Page 6	Existing
K101	1	Page 6	On road shoulder. No issues.
K102	2	Page 6	On road shoulder. Drained alluvial flats. No issues.
K103	3	Page 6	On road shoulder. Drained alluvial flats. No issues.
K104	4	Page 6	On road shoulder. Drained alluvial flats. No issues.
K105	5	Page 6	On road shoulder. Drained alluvial flats. No issues.
K106	6	Page 6	On road shoulder. Drained alluvial flats. No issues.
K107	7	Page 6	On road shoulder. Drained alluvial flats. No issues.
K108	8	Page 6	In drained flats. No issues.
K109	9	Page 6	In drained flats. No issues.
K110	10	Page 6	In drained flats. No issues.
K111	11	Page 6	In drained flats. No issues.
K112	12	Page 6	In drained flats. No issues.
K113	13	Page 6	In drained flats. No issues.
K114	14	Page 5	In drained flats. No issues.
K115	15	Page 5	In drained flats. No issues.
K116	16	Page 5	In drained flats. No issues.
K117	17	Page 5	In road shoulder. No issues.
K118	18	Page 5	On causeway. No issues.
K119	19	Page 5	On causeway. No issues.
K120	20	Page 5	On causeway. No issues.
K121	21	Page 5	On causeway. No issues.
K122	22	Page 5	On causeway. No issues.
K123	23	Page 5	On causeway. No issues.
K124	24	Page 5	On road shoulder. No issues.
K125	25	Page 5	On road shoulder. No issues.
K126	26	Page 5	On causeway. No issues.
K1127	27	Page 5	On causeway. No issues.
K128	28	Page 5	In road shoulder fill. No issues.
K129	29	Page 5	In road shoulder-road cut down. No issues.
K130	30	Page 5	In road shoulder-road cut down. No issues.
K131	31	Page 4	In road shoulder-road cut down. No issues.
K132	32	Page 4	In road shoulder-road cut down. No issues.
K133	33	Page 4	On causeway. No issues.
K134	34	Page 4	In road shoulder-road cut down. No issues.
K135	35	Page 4	In road shoulder above river. No issues.
K136	36	Page 4	In road shoulder above river. No issues. Opposite driveway entrance 872 Kohukohu Road.
K137	37	Page 4	In road shoulder above river. No issues.
K138	38	Page 4	Opposite Yarborough Station. No issues.
K139	39	Page 4	In causeway. No issues.
K140	40	Page 4	In road fill above estuary, No issues.
K141	41	Page 4	On causeway. No issues
K142	42	Page 4	On causeway. No issues.
K143	43	Page 3	On causeway. No issues.

K144	44	Page 3	Opposite 948 Kohukohu Road. Old causeway. No issues.
K145	45	Page 3	Base of old toe of hill. Road fill on toe. Above estuary. No issues.
K146	46	Page 3	Base of old toe of hill. Road fill on toe. Above estuary. No issues.
K147	47	Page 3	Toe of hill, in road shoulder. No issues.
K148	48	Page 3	Toe of hill, in road shoulder. No issues.
K149	49	Page 3	Toe of hill, in road shoulder. No issues.
K150	50	Page 3	Toe of hill, in road shoulder. No issues.
K151	51	Page 3	Toe of hill, in road shoulder. No issues.
K152	52	Page 3	In road shoulder-retained by rock wall. No issues.
K153	53	Page 3	In road shoulder. No issues.
K154	54	Page 3	In road shoulder. No issues.
K155	55	Page 3	In retained road shoulder. No issues.
K156	56	Page 3	In retained road shoulder. No issues.
K157	57	Page 3	In retained road shoulder. No issues.
K158	58	Page 3	In retained road shoulder. No issues.
K159	59	Page 3	In retained road shoulder. No issues.
K160	60	Page 3	In retained road shoulder. No issues.
K161	61	Page 3	In retained road shoulder. No issues.
K162	62	Page 3	1056 Kohukohu Road-cut down area. No issues.
K163	63	Page 3	In road shoulder. No issues.
K164	64	Page 3	In road shoulder. No issues.
K165	65	Page 3	In road shoulder. No issues.
K166	66	Page 3	In road shoulder. No issues.
K167	67	Page 2	On road shoulder. No issues.
K168	68	Page 2	On road shoulder. No issues.
K169	69	Page 2	On road shoulder. No issues.
K170	70	Page 2	On road shoulder. Beginning of pull off to metal dump. No issues.
K171	71	Page 2	On road shoulder. Smith Deviation road. No issues.
K172	72	Page 2	On causeway. No issues.
K173	73	Page 2	On causeway. No issues.
K174	74	Page 2	On causeway. No issues.
K175	75	Page 2	On causeway. No issues.
K176	76	Page 1	On causeway. No issues.
K177	77	Page 1	On causeway. No issues.
K178	78	Page 1	On causeway. No issues.
K179	79	Page 1	On causeway. No issues.
K180	80	Page 1	On causeway. No issues.
K181	81	Page 1	On causeway. No issues.
K182	82	Page 1	On causeway. No issues.
K183	83	Page 1	No issues, but on edge of former island and O05/57 Oriwa Pa. Looks like road fill-but may be old subsoil. Monitor as precaution.
422613	end		Existing

GOOGLE MAP – SURVEY PLAN LAYOUT – KOHUKOHU ROAD SWER REPLACEMENT





