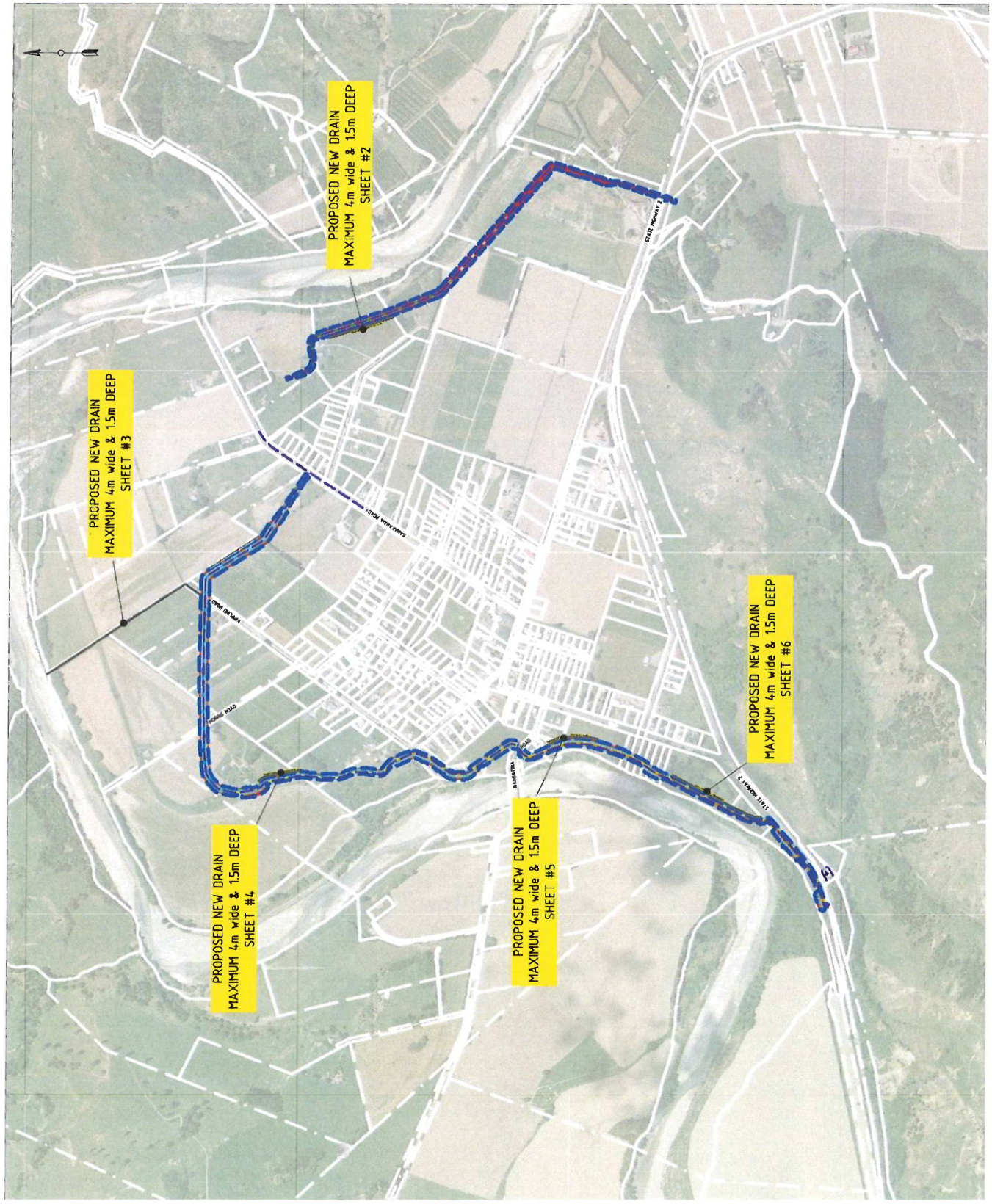


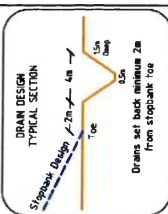


General Notes

Keys

- Boundary lines
- Baseline Surveyed (GBC)
- Proposed design
- Existing ground
- Design footprint
- Stopbank / Road Design Alignment
- Alignment / Change
- Waipara River - Te Karaka

Coordinate System in terms of : NZTM 2000
Vertical Datum in terms of : NZVD 2016



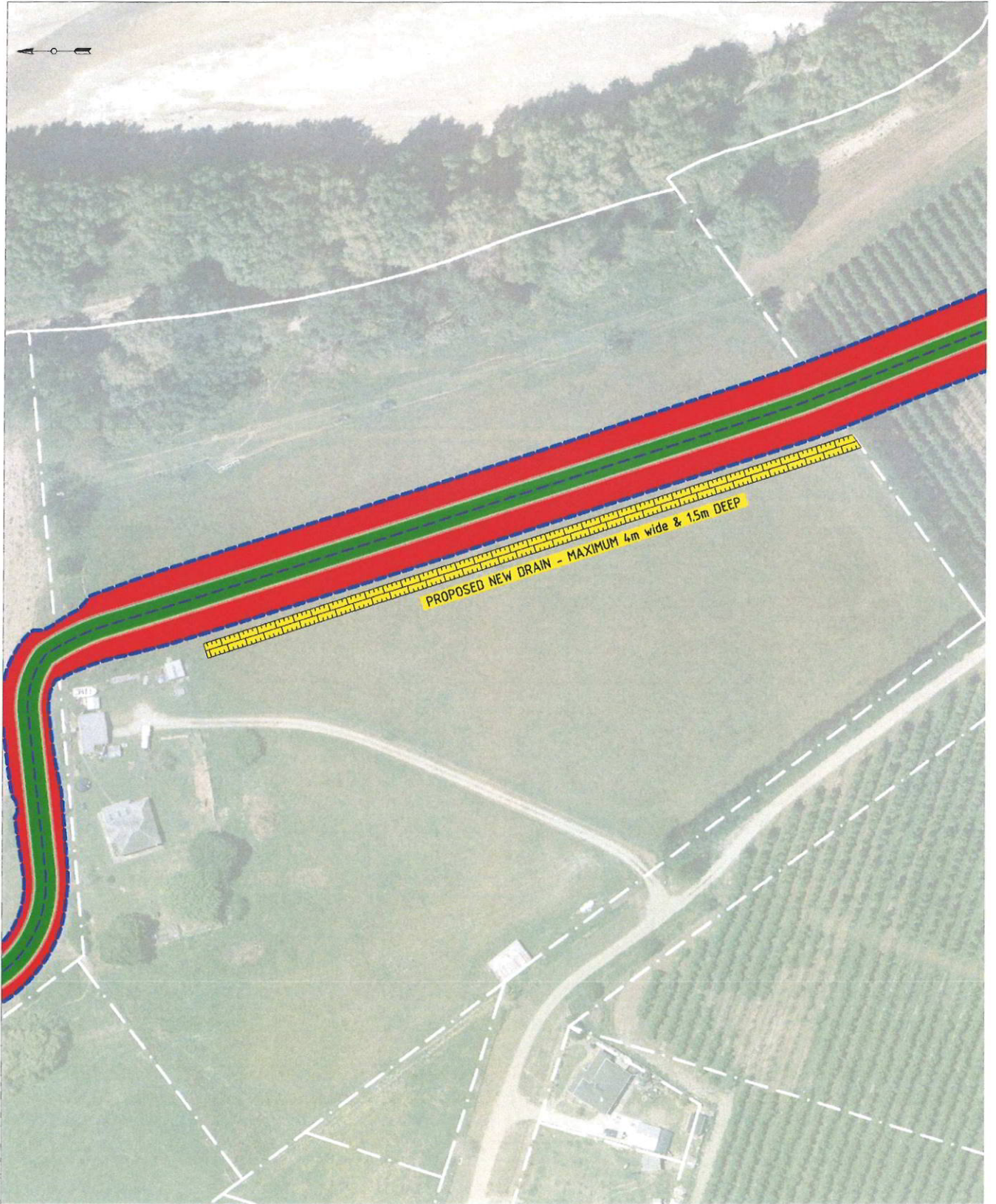
CIVIL PROJECT SOLUTIONS		
Surveyed by :	CPS CREW	10/2025
Drawn by :	P. LAUDRE	04/2026
Checked by :	DEFOOTE GBC	04/2026
1	Proposed new open drains	04/2026
2	Proposed new design (symp)	03/2026
3	Karakara Road connection	03/2026
4	Suez Stopbank connection	03/2026
5	Western Side Lateral	03/2026
6	Frederick 500m	03/2026
7	Lateral after Sat 2023	2023
No.	Revision/Name	Date

GISBORNE DISTRICT COUNCIL
Te Kaitiaki o Te Taiwhaiti

CPS
Civil Project Solutions

WAIPARA RIVER
TE KARAKA - TOWNSHIP
WESTERN & EASTERN STOPBANK
PROPOSED NEW DRAINS

Scale	1
Project	WAIPARA RIVER
Date	01.04.2026
Sheet	1:10000 @ A3

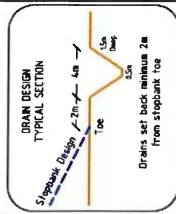


Keys

- Boundary lines
- Gasline Surveyed (GDC)
- Proposed design
- Existing ground
- Design footprint
- Stopbank / Road
- Design Alignment

TEKLA 3000 Alignment / Change
Waipapa river - Te Karaka

Coordinate System in use of : NZTM 2000
Vertical Datum in use of : NZVD 2015



CIVIL PROJECT SOLUTIONS
Surveyed by : CPS CREW 10/2025
Drawn by : P.F. AMBER 04/2026
Checked by : D. FOOTE (GDC) 04/2026

No.	Revision/Issue	Date
1	Proposed new open drains	04/2026
2	Stopbanks and design synergy	03/2026
3	Karakara Road connection	03/2026
4	SIC Stopbank connection	03/2026
5	Western Side Lotlines	03/2026
6	Frederick 100mm	03/2026
7	Letter data Set 2023	2023

GISBORNE
Te Kaitiaki o Te Taiarāwhi
CPS
Civil Project Solutions

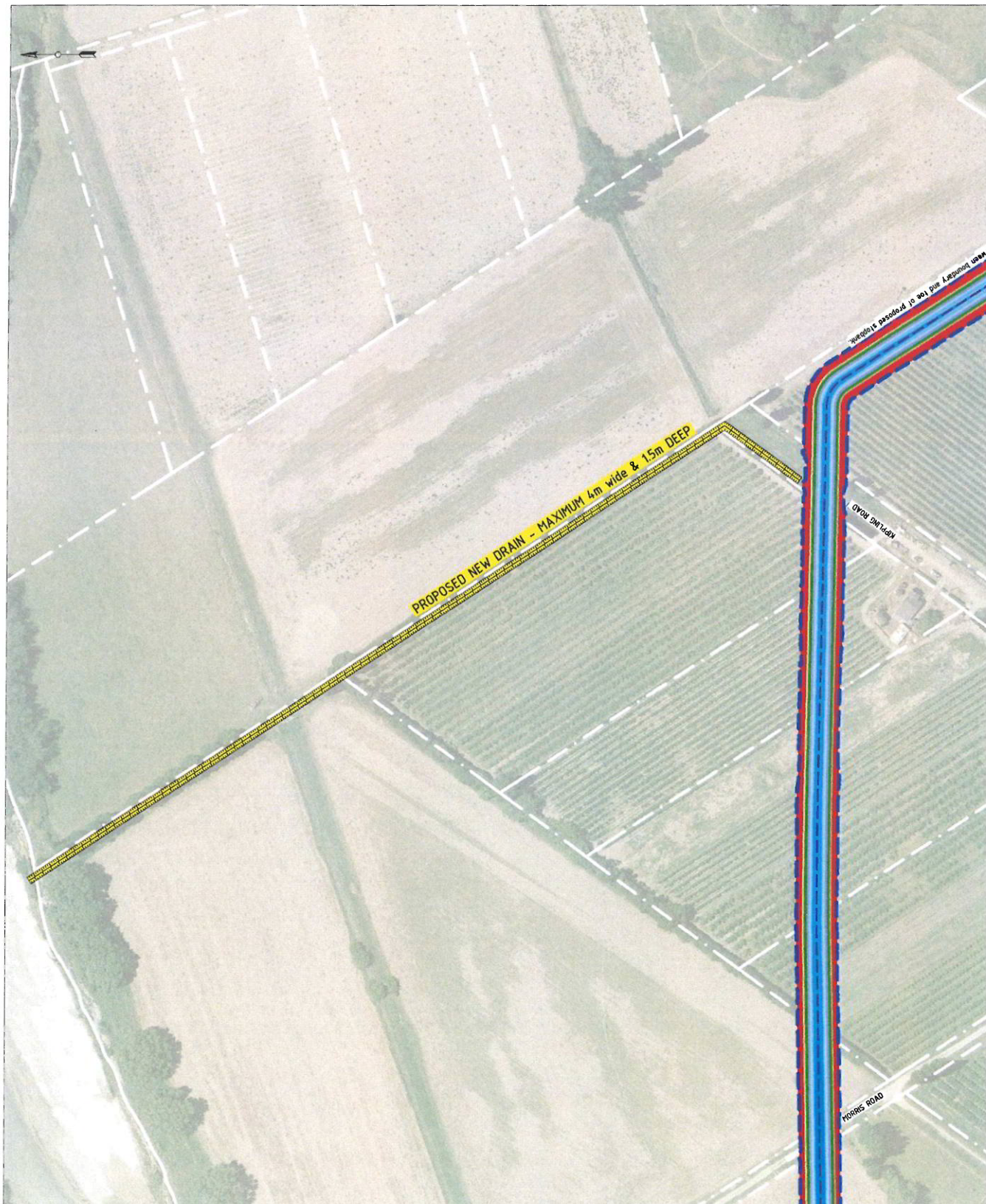
WAIPAPA RIVER
TE KARAKA - TOWNSHIP
WESTERN & EASTERN STOPBANK
PROPOSED NEW DRAINS

Scale: 1:1000 @ A3

Project: WAIPAPA RIVER

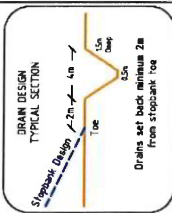
Date: 01.04.2026

Sheet: 2



General Notes	
Keys	
--- Boundary lines	
--- Gasline Surveyed (GDC)	
--- Proposed design	
--- Existing ground	
--- Design footprint	
--- Stopbank / Road Design Alignment	
--- Alignment / Change Waipara river - Te Karaka	

Coordinates System in terms of NZTM 2000
Vertical Datum in terms of NZVD 2000



CIVIL PROJECT SOLUTIONS		
Surveyed by :	CPS CREW	10/2025
Drawn by :	P.F. ALDERSE	06/2026
Checked by :	D.FOOTE (GDC)	06/2026
No.	Revision/Phase	Date
1	Proposed new open drains	06/2026
6	Stopbanks next design stage	07/2026
5	Karakara Road connection	07/2026
4	SH2 Stopbank connection	07/2026
3	Western Side Landscapes	07/2026
2	Frederick 400mm	07/2026
1	Lidar data Set 2023	2023



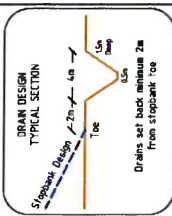
WAIKATA RIVER
TE KARAKA - TOWNSHIP
WESTERN & EASTERN STOPBANK
PROPOSED NEW DRAINS

Project	WAIKATA RIVER
Date	01/04/2026
Scale	1:2000 @ A3
Page	3



General Notes	
Keys	
--- Boundary lines	
--- Baseline Surveyed (BDC)	
--- Proposed design	
--- Existing ground	
--- Design footprint	
--- Stopbank / Road Design Alignment	
--- Alignment / Change Waiata river - Te Karaka	

Coordinates System in terms of NZTD 2000
Vertical Datum in terms of NZVD 2000



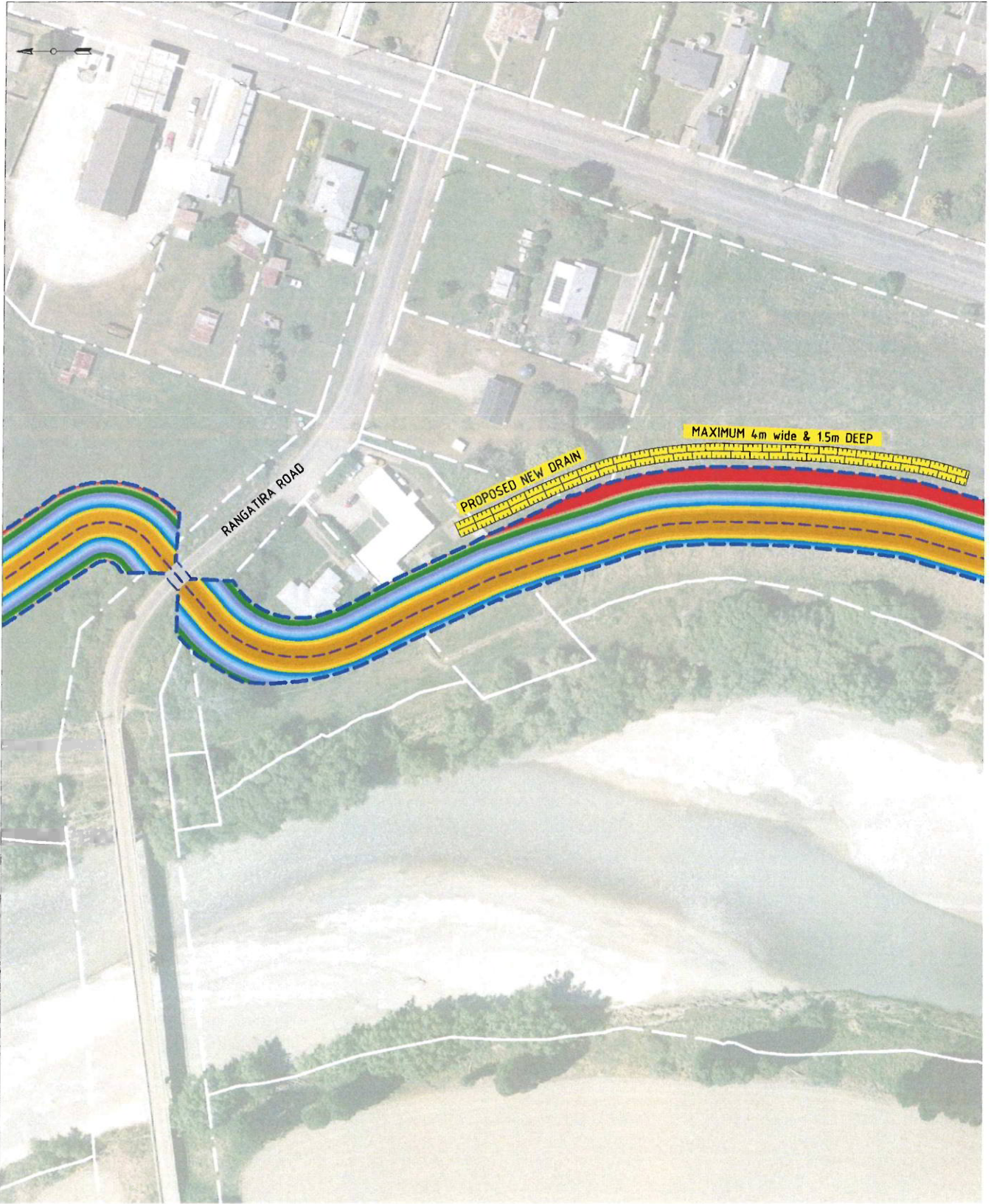
CIVIL PROJECT SOLUTIONS	
Surveyed by :	CPS CREW 10/2025
Drawn by :	P.F. ALDERRE 04/2026
Checked by :	D.FOOTE (BDC) 04/2026

No.	Revisions/Issues	Date
1	Proposed river open drains	04/2026
6	Stopbanks road design synergy	03/2026
5	Karakara Road connection	02/2026
4	S40 Stopbank connection	02/2026
3	Western Side Lotlines	02/2026
2	Freeboard 100mm	01/2026
1	Like data Set 2023	2023

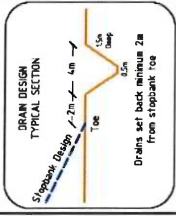


Project Name and Address
WAPADA RIVER
TE KARAKA - TOWNSHIP
WESTERN & EASTERN STOPBANK
PROPOSED NEW DRAINS

Project	WAPADA RIVER
Date	01/04/2026
Scale	1:1000 @ A3
Sheet	4



General Notes	
Keys	
--- Boundary lines	
--- Existing Surveyed (BOD)	
--- Proposed design	
--- Existing ground	
--- Design footprint	
--- Stopbank / Road Design Alignment's	
TEKA 3000	Alignment / Change Waipapa river - Te Karaka

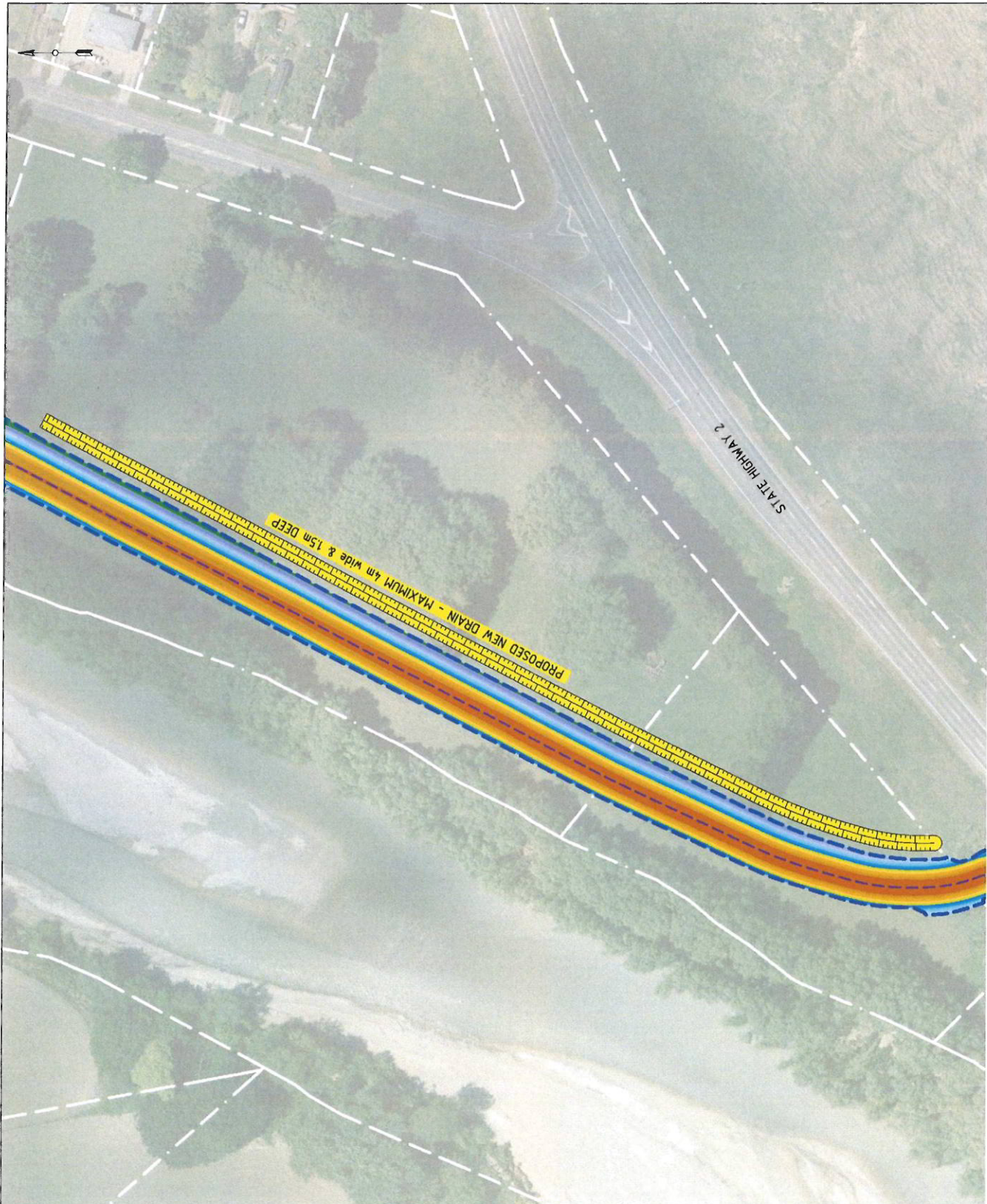


CIVIL PROJECT SOLUTIONS	
Surveyed by : GPS CREW	07/2025
Drawn by : P.F. AUGER	06/2026
Checked by : D.FOOTE (BOD)	04/2026
1. Proposed new open drains	04/2026
2. Stopbanks rest design synergy	07/2026
3. Karakara Road connection	07/2026
4. S12 Stopbank connection	07/2026
5. Western Side Lintolod	07/2026
6. Freeland 600mm	07/2026
7. L&L data Sat 2023	2023
No.	Revision/Notes
	Date



WAIKAPA RIVER
TE KARAKA - TOWNSHIP
WESTERN & EASTERN STOPBANK
PROPOSED NEW DRAINS

Project: WAIKAPA RIVER	Sheet: 5
Date: 01/04/2026	Scale: 1:1000 @ A3

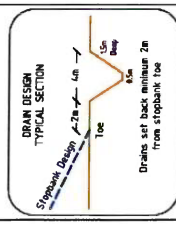


General Notes

Keys

- Boundary lines
- Gasline Surveyed (GCL)
- Proposed design
- Existing ground
- Design footprint
- Stopbank / Road
- Design Alignment
- Alignment / Change
- Waipaoa river - Te Karaka

Coordinates: Surface in form of NZTM 2000
Vertical Datum in form of NZVD 2006



CIVIL PROJECT SOLUTIONS

Surveyed by:	CPS CREW	10/2025
Drawn by:	P. FLAUGERE	04/2026
Checked by:	DEPOTE (GCL)	04/2026

No.	Revised/Date	State
1	Proposed new open drains	04/2026
2	Stopbank road design syring	03/2026
3	Karakara Road connection	02/2026
4	SRT Shearwin connection	01/2026
5	Western Side Cutroad	02/2026
6	Frederick 600m	01/2026
7	Local delis Set	2023

GISBORNE
The Earthshakers & Te Karaka

CPS
Civil Project Solutions

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN & EASTERN STOPBANK
PROPOSED NEW DRAINS

Project: WAIPAOA RIVER

Date: 01.04.2026

Scale: 1:1000 @ A3

Sheet: 6

Total Volume at Station 0+400.00
Cut Vol. 0.00
Fill Vol. 0.00

Chainage 00.000
Datum: 35.000

PROPOSED LEVELS	39.760	40.392	39.796
EXISTING LEVELS	39.760	39.766	39.796
LEVEL DIFFERENCE	0.000	0.626	0.000
OFFSETS	-3.164	0.000	3.091

Total Volume at Station 0+420.00
Cut Vol. 0.00
Fill Vol. 130.08

Chainage 20.000
Datum: 35.000

PROPOSED LEVELS	38.996	40.445	38.927
EXISTING LEVELS	38.996	38.959	38.927
LEVEL DIFFERENCE	0.000	1.486	0.000
OFFSETS	-4.802	0.000	4.935

Total Volume at Station 0+440.00
Cut Vol. 8.00
Fill Vol. 191.04

Chainage 40.000
Datum: 35.000

PROPOSED LEVELS	39.140	39.111	39.049
EXISTING LEVELS	39.140	39.111	39.049
LEVEL DIFFERENCE	0.000	1.387	0.000
OFFSETS	-4.615	0.000	4.797

Total Volume at Station 0+460.00
Cut Vol. 0.00
Fill Vol. 224.98

Chainage 60.000
Datum: 35.000

PROPOSED LEVELS	38.731	38.729	38.776
EXISTING LEVELS	38.731	38.729	38.776
LEVEL DIFFERENCE	0.000	1.822	0.000
OFFSETS	-5.539	0.000	5.449

General Notes

Keys

Banks

Boundary lines

Fence lines

Gates

Culverts

Alignment / Chainage

throughout

Te Karaka Township

OTEKA 120

TYPICAL CROSS SECTION

4m WIDE STOPBANK (TOP)

Coordinate Station in km of 1:275 @ 2000

Vertical Datum in km of 1:200 @ 2016

BURVEYED

CPS / CDC CREW

-

DRAWN

P. LAUGIERE (CPS)

10/2028

CHECKED

D. FOOTE (CDC)

10/2028

2

Freeboard 600mm

2024

1

Like care Sat 2023 - 2025

2026

No.

Revisions / Issues

Date

GISBORNE

Engineering

Te Kaitiaki o Te Tai Tokerau

CPS

201 Northcote

Project Name and Address

WAIPAOAA RIVER

TE KARAKA TOWNSHIP

EASTERN SIDE STOPBANK

CROSS SECTIONS

Project Name and Address

WAIPAOAA RIVER

1

19.02.2028

1:500 @ A3

Total Volume at Station 0+800.00	Cut Vol	0.00	Fill Vol	257.36
--	---------	------	----------	--------

Chainage 80.000
Datum: 35.000



PROPOSED LEVELS	38.902	40.604	38.777	5.554	0.000	38.777
EXISTING LEVELS	38.902	38.926	38.777	0.000	1.678	38.926
LEVEL DIFFERENCE	0.000	0.000	0.000	-5.304	0.000	0.000
OFFSETS						

Total Volume at Station 0+100.00	Cut Vol	0.00	Fill Vol	248.66
--	---------	------	----------	--------

Chainage 100.000
Datum: 35.000



PROPOSED LEVELS	38.946	40.656	38.877	5.458	0.000	38.877
EXISTING LEVELS	38.946	38.939	38.877	0.000	1.717	38.939
LEVEL DIFFERENCE	0.000	0.000	0.000	-5.321	0.000	0.000
OFFSETS						

Total Volume at Station 0+120.00	Cut Vol	0.00	Fill Vol	242.81
--	---------	------	----------	--------

Chainage 120.000
Datum: 35.000



PROPOSED LEVELS	39.089	40.709	38.972	5.374	0.000	38.972
EXISTING LEVELS	39.089	39.040	38.972	0.000	1.670	39.040
LEVEL DIFFERENCE	0.000	0.000	0.000	-5.140	0.000	0.000
OFFSETS						

Total Volume at Station 0+140.00	Cut Vol	0.00	Fill Vol	237.82
--	---------	------	----------	--------

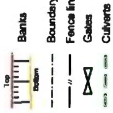
Chainage 140.000
Datum: 35.000



PROPOSED LEVELS	39.358	40.762	39.067	5.290	0.000	39.067
EXISTING LEVELS	39.358	39.282	39.067	0.000	1.480	39.282
LEVEL DIFFERENCE	0.000	0.000	0.000	-4.709	0.000	0.000
OFFSETS						

General Notes

Keys



Alignment / Chainage
throughout
To Karaka Township

CEKA 130

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

1:1000



Coordinate System in terms of NZTM 2000

Vertical Datum in terms of 1929 AD 72

SURVEYED CPS / GDC CREW -

DRAWN P.F. LAUREN (CPS) 10/02/28

CHECKED D.FOOTE (GDC) 10/02/28

No.	Revisions / Issues	Date
2	Trenchwork shown	2024
1	Linear data Set 2023 - 2025	2024

File Name and Address

GISBORNE

Te Karaka Township

Te Karaka o Te Tauiakahi

CPS

2024

Project Name and Address

WAIKARAKA RIVER

TE KARAKA TOWNSHIP

EASTERN SIDE STOPBANK

CROSS SECTIONS

WAIKARAKA RIVER

18.02.2026

1:500 @ A3

2

Total Volume at Station D=160.00	
Cut Vol	0.00
Fill Vol	97.54

Chainage 160.000
Datum: 35.000

PROPOSED LEVELS	39.529	40.815	39.057
EXISTING LEVELS	39.529	39.465	39.057
LEVEL DIFFERENCE	0.000	1.351	0.000
OFFSETS	-4.472	0.000	5.415

Total Volume at Station D=180.00	
Cut Vol	0.00
Fill Vol	303.06

Chainage 180.000
Datum: 35.000

PROPOSED LEVELS	36.954	40.868	39.649
EXISTING LEVELS	36.954	38.496	39.649
LEVEL DIFFERENCE	0.000	2.372	0.000
OFFSETS	-9.128	0.000	4.338

Total Volume at Station D=200.00	
Cut Vol	0.00
Fill Vol	626.69

Chainage 200.000
Datum: 30.000

PROPOSED LEVELS	35.871	40.921	39.524
EXISTING LEVELS	34.898	37.475	39.524
LEVEL DIFFERENCE	0.973	3.445	0.000
OFFSETS	-12.000	0.000	4.693

Total Volume at Station D=220.00	
Cut Vol	0.00
Fill Vol	763.61

Chainage 220.000
Datum: 35.000

PROPOSED LEVELS	36.617	40.974	39.525
EXISTING LEVELS	36.617	37.358	39.525
LEVEL DIFFERENCE	0.000	3.615	0.000
OFFSETS	-10.613	0.000	4.197

General Notes

Keys

- Baris
- Boundary lines
- Fence lines
- Gates
- Culverts

Alignment / Chainage
throughout
Te Karaka Township

TEKA 120

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

Coordinate System in terms of NZTA 2000
Vertical Datum in terms of NZOD 2016.

SURVEYED	CPS / DCC CREW	-
DRAWN	P. LAUGHERIE (CPS)	10/2026
CHECKED	D. FOOTE (DCC)	10/2026

No.	Revisions / Issues	Date
1	Linear data Set 2023 - 2025	2026
2	Finalised 600mm	2026



WAIPAQA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project	WAIPAQA RIVER	Sheet	3
Date	19.02.2026	Scale	1:500 @ A3

Total Volume at Station 0+240.00	0.00
Cut Vol	0.00
Fill Vol	669.53



Chainage 24+0.000
Datum: 35.000

PROPOSED LEVELS	37.35	4.1027	39.696
EXISTING LEVELS	37.35	37.511	39.696
LEVEL DIFFERENCE	0.000	3.516	0.000
OFFSETS	-9.283	0.000	4.965

Total Volume at Station 0+260.00	0.00
Cut Vol	0.00
Fill Vol	725.31



Chainage 26+0.000
Datum: 35.000

PROPOSED LEVELS	36.861	4.1079	39.538
EXISTING LEVELS	36.861	37.057	39.538
LEVEL DIFFERENCE	0.000	4.022	0.000
OFFSETS	-10.338	0.000	4.982

Total Volume at Station 0+280.00	0.00
Cut Vol	0.00
Fill Vol	884.45



Chainage 28+0.000
Datum: 35.000

PROPOSED LEVELS	36.193	4.1132	39.525
EXISTING LEVELS	36.193	37.253	39.525
LEVEL DIFFERENCE	0.000	3.879	0.000
OFFSETS	-11.778	0.000	5.115

Total Volume at Station 0+300.00	0.00
Cut Vol	0.00
Fill Vol	76.128



Chainage 30+0.000
Datum: 35.000

PROPOSED LEVELS	37.164	4.1185	39.512
EXISTING LEVELS	37.164	37.396	39.512
LEVEL DIFFERENCE	0.000	3.789	0.000
OFFSETS	-9.942	0.000	5.246

General Notes

Keys

Baris

Boundary lines

Feature lines

Galas

Culverts

Alignment / Chainage throughout

Te Kura Township

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

SURVEYED	CPI / GDC CREW	-
DRAWN	P. FLAUGIERE (CPI)	10/2026
CHECKED	D. POOTE (GDC)	10/2026

No.	Revision / Change	Date
2	Final Board 6/1/2026	2026
1	Issue 19/02/2026	2026

Project Name and Address

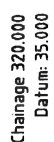
GISBORNE DISTRICT COUNCIL
Te Kaitiaki o Te Taiāwhiri

CPS
Our Project Solutions

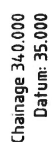
Project Name and Address

WAIKATO RIVER
TE KAIKAI TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project	WAIKATO RIVER	Sheet	4
Date	19.02.2026	Scale	1:500 @ A3



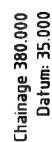
PROPOSED LEVELS	37,623	0.000	5.329	
EXISTING LEVELS	39,524	0.000	4.128	
LEVEL DIFFERENCE	37,623	0.000	-9,688	
OFFSETS	39,524	0.000		



PROPOSED LEVELS	EXISTING LEVELS	LEVEL DIFFERENCE	OFFSETS
		0.000	-9.570
	37.517	3.773	0.000
	38.375	0.000	7.731
	37.456	37.456	
			37.456



PROPOSED LEVELS	EXISTING LEVELS	LEVEL DIFFERENCE	OFFSETS
37.060	37.060	0.000	10.658
77.347	37.089	4.255	0.000
37.189	37.177	0.012	-9.392
37.189	37.189	0.000	-10.210



PROPOSED LEVELS	36.787	11.119	0.000	4.572	36.825	36.846	36.846
EXISTING LEVELS	36.787						
LEVEL DIFFERENCE	0.000						0.000
OFFSETS							11.000

Total Volume at Station 0+640.00	0.00
Cut Vol	0.00
Fill Vol	856.81



Chainage 640.000
Datum: 35.000

PROPOSED LEVELS	38.403	42.084	38.278
EXISTING LEVELS	38.403	38.301	38.278
LEVEL DIFFERENCE	0.000	3.783	0.000
OFFSETS	9.261	0.000	-9.511

Total Volume at Station 0+660.00	0.00
Cut Vol	0.00
Fill Vol	887.00



Chainage 660.000
Datum: 35.000

PROPOSED LEVELS	38.212	42.137	38.138
EXISTING LEVELS	38.212	38.198	38.138
LEVEL DIFFERENCE	0.000	3.939	0.000
OFFSETS	9.749	0.000	-9.897

Total Volume at Station 0+680.00	0.00
Cut Vol	0.00
Fill Vol	940.00



Chainage 680.000
Datum: 35.000

PROPOSED LEVELS	38.227	42.190	38.096
EXISTING LEVELS	38.227	38.225	38.096
LEVEL DIFFERENCE	0.000	4.042	0.000
OFFSETS	9.825	0.000	-9.852

Total Volume at Station 0+700.00	0.00
Cut Vol	0.00
Fill Vol	970.00



Chainage 700.000
Datum: 35.000

PROPOSED LEVELS	38.204	42.236	38.112
EXISTING LEVELS	38.204	38.121	38.112
LEVEL DIFFERENCE	0.000	4.115	0.000
OFFSETS	9.964	0.000	-10.147

General Notes

Keys

- Banks
- Boundary lines
- Fence lines
- Gates
- Culverts

Alignment / Chainage
throughout
Te Karaka Township

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

Coordinate System in terms of NZTM 2000
Vertical Datum in terms of NZVD 2016

SURVEYED	CPS / GDC CREW	-
DRAWN	P. LAURENCE (CPS)	10/02/20
CHECKED	D. FOOTE (GDC)	10/02/20

No.	Revisions / Issues	Date
1	Linear area Sep 2023 - 2025	2024
2	Finalised 600mm	2024



Project Name and Address
WAIPAQA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project	WAIPAQA RIVER	Sheet	9
Date	18.02.2026		
Scale	1:500 @ A3		

Total Volume at Station 0+720.00	0.00	98.13
Cut Vol	0.00	
Fill Vol		98.13



Chainage 720.000
Datum: 35.000

PROPOSED LEVELS	38.231	42.254	38.113	-10.181	0.000	9.947
EXISTING LEVELS	38.231	38.139	38.113	38.113	0.000	0.000
LEVEL DIFFERENCE	0.000	4.115	0.000	0.000	0.000	0.000
OFFSETS						

Total Volume at Station 0+740.00	0.00	96.78
Cut Vol	0.00	
Fill Vol		96.78



Chainage 740.000
Datum: 35.000

PROPOSED LEVELS	38.236	42.272	38.198	-10.048	0.000	9.972
EXISTING LEVELS	38.236	38.264	38.198	38.198	0.000	0.000
LEVEL DIFFERENCE	0.000	4.008	0.000	0.000	0.000	0.000
OFFSETS						

Total Volume at Station 0+760.00	0.00	95.23
Cut Vol	0.00	
Fill Vol		95.23



Chainage 760.000
Datum: 35.000

PROPOSED LEVELS	38.231	42.291	38.288	-9.905	0.000	10.019
EXISTING LEVELS	38.231	38.250	38.288	38.288	0.000	0.000
LEVEL DIFFERENCE	0.000	4.040	0.000	0.000	0.000	0.000
OFFSETS						

Total Volume at Station 0+780.00	0.00	100.32
Cut Vol	0.00	
Fill Vol		100.32



Chainage 780.000
Datum: 35.000

PROPOSED LEVELS	37.169	42.309	38.345	-9.829	0.000	11.993
EXISTING LEVELS	36.033	38.275	38.337	38.345	0.000	0.000
LEVEL DIFFERENCE	1.136	4.034	0.000	0.000	0.000	0.000
OFFSETS						

General Notes

Keys

- Banks
- Boundary lines
- Fence lines
- Gates
- Culverts

Alignment / Chainage
throughout
Te Karaka Township

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

Coordinate Station in terms of NZTM 2000
Vertical Datum in terms of NZVD 2016

SURVEYED	CPS / GDC CREW	-
DRAWN	P. LAURENCE (CPS)	10/02/20
CHECKED	D. FOOTE (GDC)	10/02/20

No.	Revised / Issue	Date
1	Linear data Set 2023 - 2025	2023
2	Freestand 600mm	2023



WAIPAORA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project	WAIPAORA RIVER	10
Date	19.02.2026	
Scale	1:500 @ A3	

General Notes

Keys

Banks

Boundary lines

Fence lines

Gates

Culverts

Alignment / Chaiage
throughout
Te Karaka Township

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

Coordinate Station in km of A/270 2000
Vertical Datum in km of NZVD 2016

SURVEYED

CPS / GDC CREW

-

DRAWN

P. LAUREN (CPS)

10/2026

CHECKED

D. FOOTE (GDC)

10/2028

2

Freeland Rd

2026

1

Local Rd 2023 - 2025

2026

No.

Revised / Issue

Date

GISBORNE
CITY COUNCIL
Te Kaitiaki o Te Taiāwhiri

CPS
20+ Years Building

Project Name and Address

WAIPAQA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project No.

11

Scale

1:500 @ A3

Total Volume at Station 0+840.00			
Cut Vol	0.00	Fill Vol	973.54



Chainage 840.000
Datum: 35.000

PROPOSED LEVELS	-10.082	0.000	4.100	38.254	4.2.364	38.299
EXISTING LEVELS	38.273	38.273	38.273	38.273	38.273	38.299
LEVEL DIFFERENCE	0.000	0.000	0.000	0.000	0.000	0.000
OFFSETS	10.030	0.000	0.000	0.000	0.000	10.030

Total Volume at Station 0+860.00			
Cut Vol	0.00	Fill Vol	970.58



Chainage 860.000
Datum: 35.000

PROPOSED LEVELS	-10.071	0.000	4.050	38.332	4.2.382	38.374
EXISTING LEVELS	38.296	38.296	38.296	38.296	38.296	38.374
LEVEL DIFFERENCE	0.000	0.000	0.000	0.000	0.000	0.000
OFFSETS	9.917	0.000	0.000	0.000	0.000	9.917

Total Volume at Station 0+800.00			
Cut Vol	0.00	Fill Vol	968.22



Chainage 800.000
Datum: 35.000

PROPOSED LEVELS	-9.846	0.000	3.922	38.405	4.2.327	38.358
EXISTING LEVELS	38.354	38.354	38.354	38.354	38.354	38.358
LEVEL DIFFERENCE	0.000	0.000	0.000	0.000	0.000	0.000
OFFSETS	9.839	0.000	0.000	0.000	0.000	9.839

Total Volume at Station 0+820.00			
Cut Vol	0.00	Fill Vol	949.08



Chainage 820.000
Datum: 35.000

PROPOSED LEVELS	-9.925	0.000	4.062	38.284	4.2.345	38.236
EXISTING LEVELS	38.333	38.333	38.333	38.333	38.333	38.236
LEVEL DIFFERENCE	0.000	0.000	0.000	0.000	0.000	0.000
OFFSETS	10.119	0.000	0.000	0.000	0.000	10.119

Total Volume at Station 0+880.00	Cut Vol	0.00	Fill Vol	952.91
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Chainage 880.000
Datum: 35.000

PROPOSED LEVELS	9.764	0.000	38.468
EXISTING LEVELS	9.764	0.000	38.468
LEVEL DIFFERENCE	0.000	0.000	0.000
OFFSETS	0.000	0.000	0.000

Total Volume at Station 0+900.00	Cut Vol	0.00	Fill Vol	928.53
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Chainage 900.000
Datum: 35.000

PROPOSED LEVELS	9.608	0.000	38.564
EXISTING LEVELS	9.608	0.000	38.564
LEVEL DIFFERENCE	0.000	0.000	0.000
OFFSETS	0.000	0.000	0.000

Total Volume at Station 0+920.00	Cut Vol	0.00	Fill Vol	908.30
--	---------	------	----------	--------



Chainage 920.000
Datum: 35.000

PROPOSED LEVELS	9.497	0.000	38.639
EXISTING LEVELS	9.497	0.000	38.639
LEVEL DIFFERENCE	0.000	0.000	0.000
OFFSETS	0.000	0.000	0.000

Total Volume at Station 0+940.00	Cut Vol	0.00	Fill Vol	909.29
--	---------	------	----------	--------



Chainage 940.000
Datum: 35.000

PROPOSED LEVELS	9.699	0.000	38.571
EXISTING LEVELS	9.699	0.000	38.571
LEVEL DIFFERENCE	0.000	0.000	0.000
OFFSETS	0.000	0.000	0.000

General Notes

Keys



Alignment / Chainage
throughout
Te Karaka Township

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Coordinate System in terms of NZTM 2000
Vertical Datum in terms of NZVD 2016

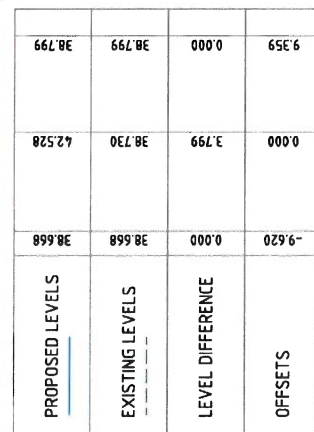
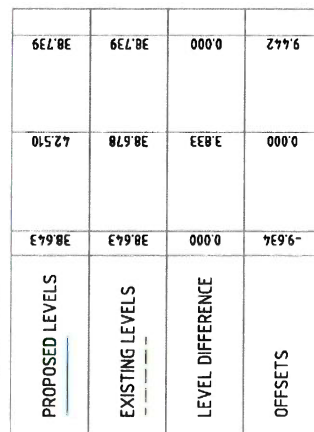
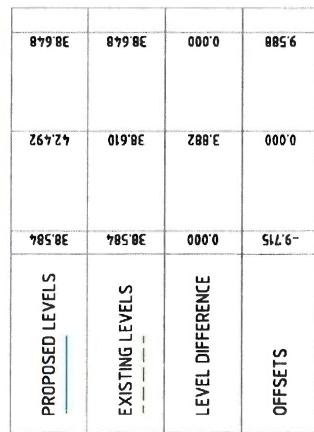
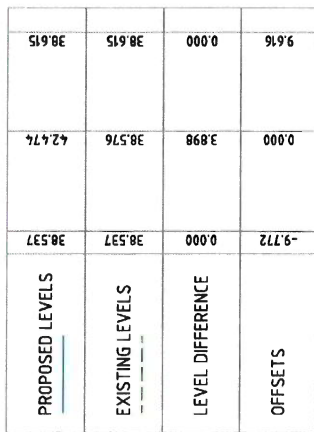
BARCHECKED	CPS (COC) CREW	10/02/20
DRAWN	P. LAUGHER (CPS)	10/02/20
CHECKED	D. FODDIE (COC)	10/02/20

No.	Revision/Issue	Date
1	Issue for S&P 2020 - 2025	20/10/20
2	Final Board 2020	20/10/20



Project Name and Address
WAIPAHOA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project	WAIPAHOA RIVER	Sheet	12
Date	19.02.2026	Scale	1:500 @ A3



Total Volume at Station 1+440.00	
Cut Vol	0.00
Fill Vol	877.83



Chainage 1040.000
Datum: 35.000

PROPOSED LEVELS	-9.769	0.000	38.631	38.742
EXISTING LEVELS	-9.743	0.000	38.625	38.747
LEVEL DIFFERENCE	0.000	0.000	38.625	38.747
OFFSETS	0.000	0.000	38.625	38.747

Total Volume at Station 1+480.00	
Cut Vol	0.00
Fill Vol	896.51



Chainage 1060.000
Datum: 35.000

PROPOSED LEVELS	-9.769	0.000	38.631	38.742
EXISTING LEVELS	-9.743	0.000	38.625	38.747
LEVEL DIFFERENCE	0.000	0.000	38.625	38.747
OFFSETS	0.000	0.000	38.625	38.747

Total Volume at Station 1+480.00	
Cut Vol	0.00
Fill Vol	899.70



Chainage 1080.000
Datum: 35.000

PROPOSED LEVELS	-9.689	0.000	38.707	38.757
EXISTING LEVELS	-9.746	0.000	38.661	38.745
LEVEL DIFFERENCE	0.000	0.000	38.661	38.745
OFFSETS	0.000	0.000	38.661	38.745

Total Volume at Station 1+500.00	
Cut Vol	0.00
Fill Vol	898.59



Chainage 1100.000
Datum: 35.000

PROPOSED LEVELS	-9.689	0.000	38.707	38.757
EXISTING LEVELS	-9.746	0.000	38.661	38.745
LEVEL DIFFERENCE	0.000	0.000	38.661	38.745
OFFSETS	0.000	0.000	38.661	38.745

General Notes

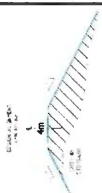
Keys

- Banks
- Boundary lines
- Fence lines
- Gates
- Culverts

Alignment / Chainage
throughout
Te Karaka Township

TEKAL 120

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Coordinate Station in km of 1:2500 2016
Vertical Datum in km of 1:2500 2016

SURVEYED	CPS / DDC CREW	-
DRAWN	P. LAURENCE (CPS)	10/02/20
CHECKED	D. FOOTE (DDC)	10/02/20

No.	Revisions / Remarks	Date
1	Linear data Set 2023 - 2025	2016
2	Freeboard 600mm	2016

GISBORNE
CITY COUNCIL
Te Kaitiaki o Te Taiāwhiri

CPS
Civil Engineering Solutions

Waipaoa River
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Waipaoa River
19.02.2026
1:500 @ A3

14

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

Gates

Culverts

Alignment / Chainage
Karakara River
Te Karaka Township

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

Coordinate System in term of NZTM 2000
Vertical Datum in term of NZVD 2016.

SURVEYED

CPB / ODC CREW

-

DRAWN

P FLAUGIERE (CPS)

10/09/20

CHECKED

D FOOTE (ODC)

10/09/20

2

Freshwater 400mm

2024

1

Local area Sep 2023 - 2025

2024

No.

Revision/Issue

Date

GISBORNE
DISTRICT COUNCIL

Te Kaitiaki o Te Taiāwhiri

CPS

Our Project Builders

Project Name and Address

WAIPAPOA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project No.

15

Project Name

WAIPAPOA RIVER

Date

19.02.2026

Scale

1:500 @ A3

Total Volume at Station 1+160.00	
Cut Vol	0.00
Fill Vol	488.32

Chainage 1160.000
Datum: 35.000

PROPOSED LEVELS	-5.610	0.000	40.795	42.650	39.969	7.262
EXISTING LEVELS		2.518	40.132		39.969	
LEVEL DIFFERENCE						
OFFSETS						

Total Volume at Station 1+180.00	
Cut Vol	0.00
Fill Vol	399.71

Chainage 1180.000
Datum: 35.000

PROPOSED LEVELS	-5.965	0.000	40.617	42.649	40.117	6.964
EXISTING LEVELS		2.410	40.240		40.117	
LEVEL DIFFERENCE						
OFFSETS						

Total Volume at Station 1+120.00	
Cut Vol	0.00
Fill Vol	873.79

Chainage 1120.000
Datum: 35.000

PROPOSED LEVELS	-9.515	0.000	38.813	42.620	38.941	9.259
EXISTING LEVELS		3.778	38.842		38.941	
LEVEL DIFFERENCE						
OFFSETS						

Total Volume at Station 1+140.00	
Cut Vol	0.00
Fill Vol	799.66

Chainage 1140.000
Datum: 35.000

PROPOSED LEVELS	-8.337	0.000	39.420	42.638	40.513	6.151
EXISTING LEVELS		3.106	39.532		40.513	
LEVEL DIFFERENCE						
OFFSETS						

Total Volume at Station 1+200.00	
Cut Vol	0.00
Fill Vol	373.91



Chainage 1200.000
Datum: 35.000

PROPOSED LEVELS	40.428	42.648	40.420
EXISTING LEVELS	40.428	40.426	40.420
LEVEL DIFFERENCE	0.000	2.222	0.000
OFFSETS	6.341	0.000	-6.356

Total Volume at Station 1+220.00	
Cut Vol	0.00
Fill Vol	342.02



Chainage 1220.000
Datum: 35.000

PROPOSED LEVELS	40.719	42.648	40.532
EXISTING LEVELS	40.719	40.609	40.532
LEVEL DIFFERENCE	0.000	2.038	0.000
OFFSETS	5.756	0.000	-6.190

Total Volume at Station 1+240.00	
Cut Vol	0.00
Fill Vol	329.77



Chainage 1240.000
Datum: 35.000

PROPOSED LEVELS	40.269	42.647	40.704
EXISTING LEVELS	40.269	40.566	40.704
LEVEL DIFFERENCE	0.000	2.081	0.000
OFFSETS	-6.555	0.000	5.786

Total Volume at Station 1+260.00	
Cut Vol	0.00
Fill Vol	346.92

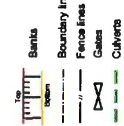


Chainage 1260.000
Datum: 35.000

PROPOSED LEVELS	39.781	42.646	40.887
EXISTING LEVELS	39.781	40.561	40.887
LEVEL DIFFERENCE	0.000	2.085	0.000
OFFSETS	-7.630	0.000	5.418

General Notes

Keys



Alignment / Chainage
To House Township

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Coordinate System in term of NZTM 2000
Vertical Datum in term of NZVD 2016

SURVEYED	CPS / CDC CREW	2025
DRAWN	P. LANGRISH (CPS)	10/2028
CHECKED	D. FOOTE (CDC)	10/2028

No.	Revision / Issue	Date
1	Issue 1st Set 2023 - 2025	2025
2	Finalised 40km	2025



WAIPAPOA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project Name	WAIPAPOA RIVER
Date	19.02.2026
Scale	1:500 @ A3
Sheet No.	16

Total Volume at Station 1+280.00	Cut Vol	0.00
	Fill Vol	216.12

Chainage 1280.000
Datum: 40.000

PROPOSED LEVELS	EXISTING LEVELS	LEVEL DIFFERENCE	OFFSETS
	4.1972	0.000	3.246
	4.1967	0.679	0.000
	4.1519	0.000	-4.153

Total Volume at Station 1+300.00	Cur Vol	35.34
	Fill Vol	39.41

Chainage 1300.000
Datum: 40.000

PROPOSED LEVELS	EXISTING LEVELS	LEVEL DIFFERENCE	OFFSETS
		0.000	-3.316
		-0.654	0.000
		0.000	3.227
		4.3253	4.3208
		4.3253	4.2645
		4.3298	4.3208

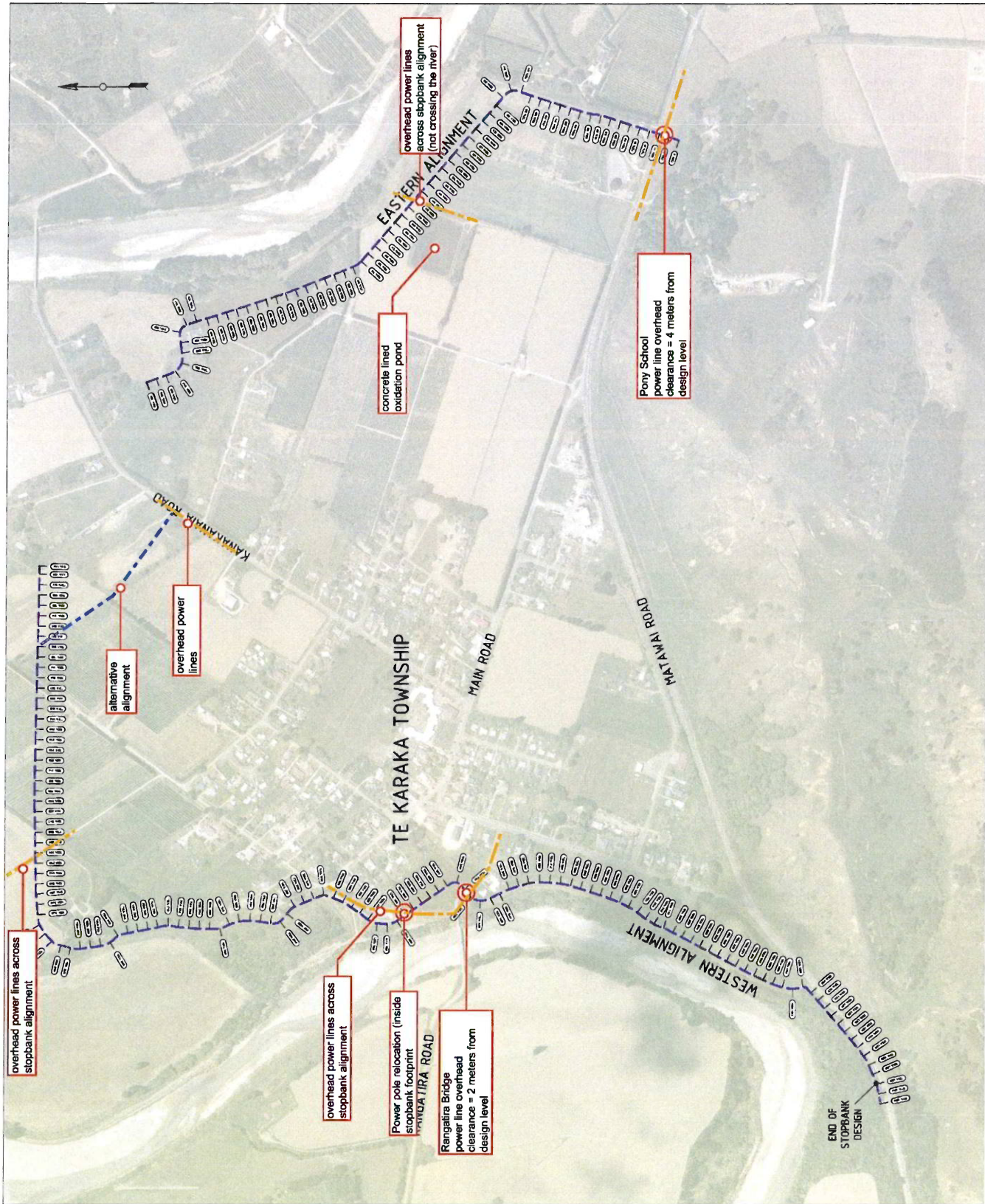

GISBORNE
 DISTRICT COUNCIL
 Te Kaunihara o Te Taiarāwhiti

CPS
 Civil Project Solutions

Firm Name and Address

Project Name and Address
WAIPAOA RIVER
TE KARAKA TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project WAIPAOA RIVER	Sheet 17
Date 19.02.2026	
Scale 1:500 @ A3	



General Notes

Keys



- Banks
- Boundary lines
- Fence lines
- Gullies
- Culverts
- Proposed design
- Existing ground
- Design footprint

Alignment / Change
Waipada river - Te Karaka

CPKA 1000

Coordinate System in use of NZTM 2000
Vertical Datum in use of NZVD 2006

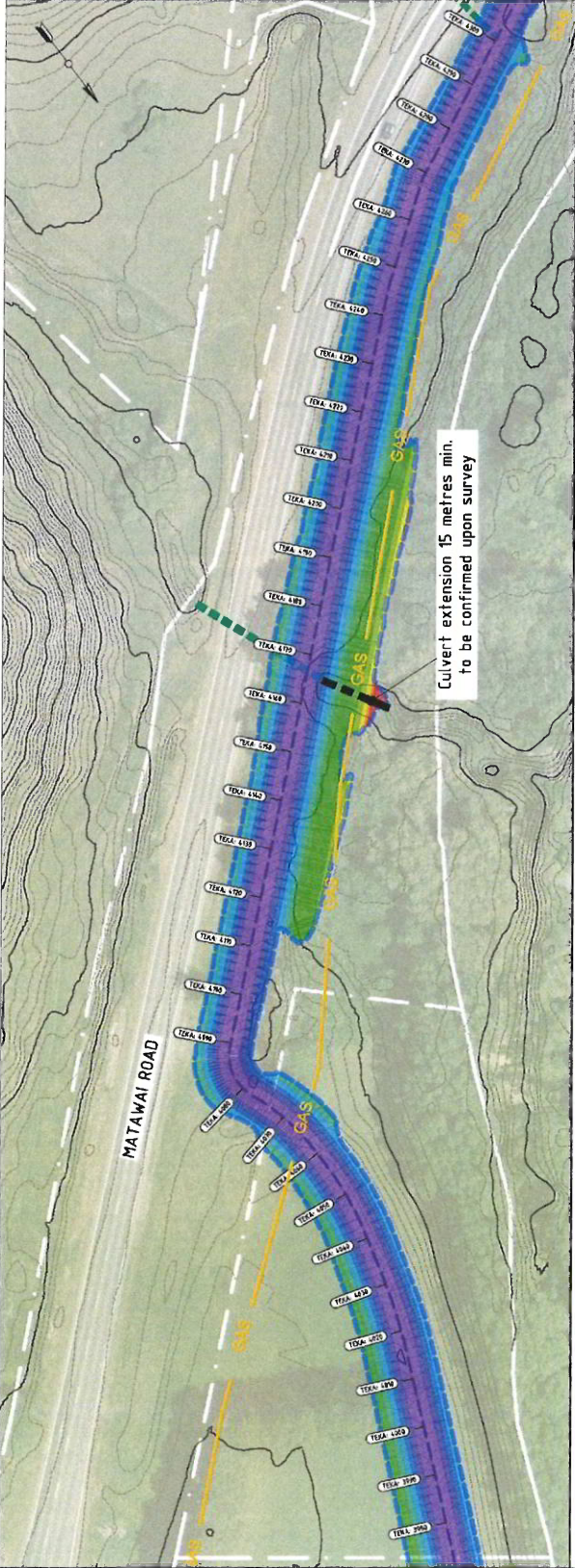
CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.F. LAUGHERE	02/2026
Checked by :	D.J. OOTE	02/2026
3	Western Site Extended	2025
2	Freeland 60km	2025
1	Liter data Sfr 2023	2023
No.	Revision/Phase	Date



Waipada River
TE KARAKA - TOWNSHIP
EASTERN & WESTERN SIDE
PROPOSED ALIGNMENTS

Project	Waipada River
Date	19.02.2026
Sheet	N.T.S @ A3
Page	1



IP CH 4+109.72
RL 46.34

VERT EXAG 1:5 Datum 4.000				0.0%			
DESIGN LEVELS							
LIDAR LEVELS							
DEPTH							
CHAINAGE							
4012.00	3.436	42.882	46.318	42.959	46.320	42.959	46.320
4020.00	3.361	42.959	46.320	42.959	46.320	42.959	46.320
4030.00	3.171	43.152	46.323	43.152	46.323	43.152	46.323
4040.00	2.951	43.374	46.325	43.374	46.325	43.374	46.325
4050.00	2.763	43.565	46.328	43.565	46.328	43.565	46.328
4060.00	2.434	43.897	46.331	43.897	46.331	43.897	46.331
4070.00	1.684	44.649	46.333	44.649	46.333	44.649	46.333
4080.00	1.552	44.784	46.336	44.784	46.336	44.784	46.336
4090.00	2.639	43.700	46.339	43.700	46.339	43.700	46.339
4100.00	2.723	43.618	46.341	43.618	46.341	43.618	46.341
4110.00	2.253	44.092	46.344	44.092	46.344	44.092	46.344
4120.00	1.947	44.398	46.344	44.398	46.344	44.398	46.344
4130.00	2.557	43.787	46.344	43.787	46.344	43.787	46.344
4140.00	2.984	43.361	46.345	43.361	46.345	43.361	46.345
4150.00	2.999	43.345	46.345	43.345	46.345	43.345	46.345
4160.00	3.352	42.992	46.345	42.992	46.345	42.992	46.345
4170.00	3.300	43.045	46.345	43.045	46.345	43.045	46.345
4180.00	3.173	43.172	46.345	43.172	46.345	43.172	46.345
4190.00	3.110	43.235	46.345	43.235	46.345	43.235	46.345
4200.00	2.753	43.592	46.345	43.592	46.345	43.592	46.345
4210.00	2.685	43.660	46.345	43.660	46.345	43.660	46.345
4220.00	2.664	43.681	46.345	43.681	46.345	43.681	46.345
4230.00	2.564	43.781	46.345	43.781	46.345	43.781	46.345
4240.00	2.408	43.938	46.345	43.938	46.345	43.938	46.345
4250.00	2.379	43.966	46.345	43.966	46.345	43.966	46.345
4260.00	2.146	44.200	46.345	44.200	46.345	44.200	46.345
4264.00							

General Notes

Keys



- Banks
- Boundary lines
- Fence lines
- Gates
- Culverts
- Proposed design
- Existing ground
- Design footprint
- Alignment / Change
- Waikato river
- Te Kura

Coordinate System in use of NZTM 2000
Vertical Datum in use of NZVD 2006

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW 10/2025
Drawn by : P. FLAUGERE 02/2026
Checked by : D. FOOTTE 02/2026

No.	Revision/Issue	Date
3	Western Side Culverts	2026
2	Finalised 500m	2026
1	Lidar data Sat 2023	2023



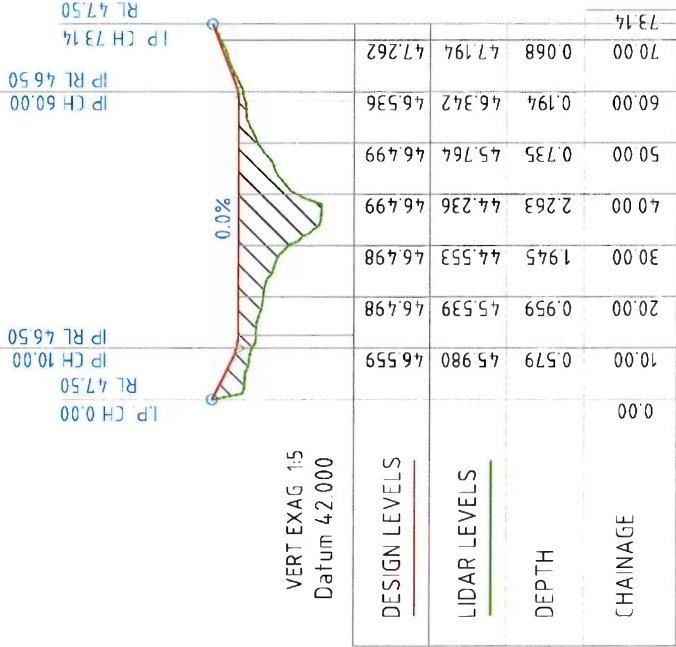
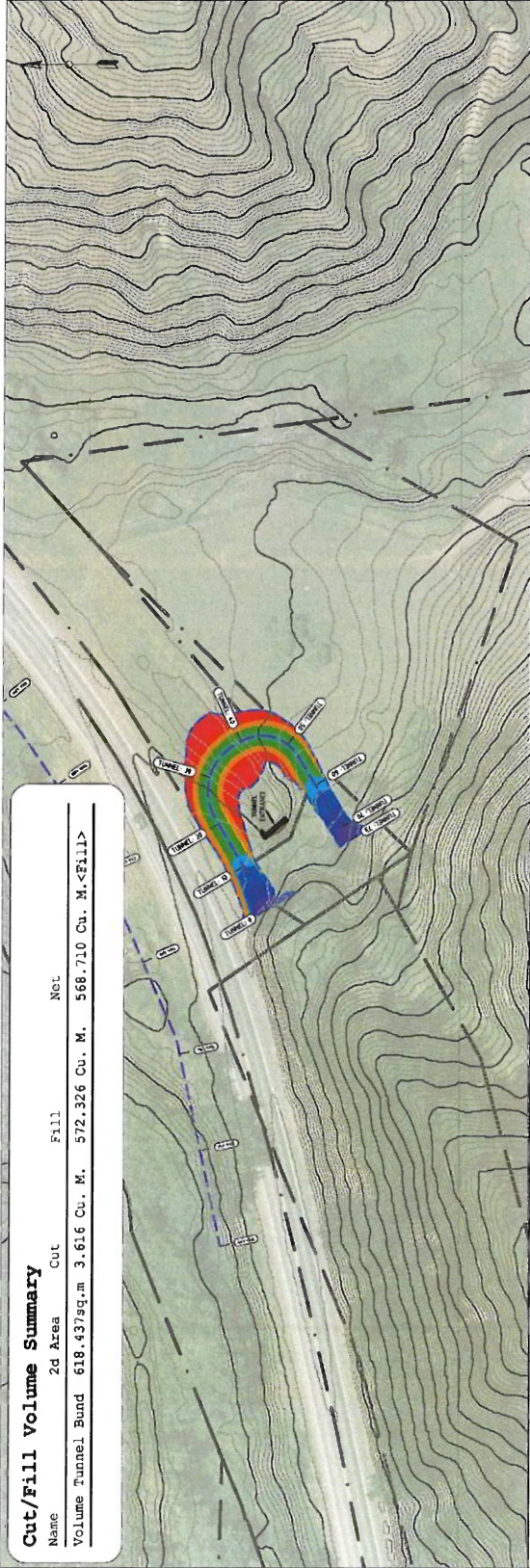
WAIPAPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
LONG SECTION

10

Project: WAIPAPA RIVER
Date: 12.02.2026
Scale: 1:1000 @ A3

Cut/Fill Volume Summary

Name	2d Area	Cut	Fill	Net
Volume Tunnel Bund	618.437sq.m	3.616 Cu. M.	572.326 Cu. M.	568.710 Cu. M.<Fill>



CL- TUNNEL SB - LONG SECTION

General Notes

Keys

- Top
- Bottom
- Boundary lines
- Fence lines
- Gates
- Carets
- Proposed design
- Existing ground
- Design footprint

Alignment / Chainage
Waipapa River - Te Karaka

Coordinate System in term of NZTM 2000
Vertical Datum in term of NZVD 2016

TEKA 1000

Scale 1:1000

Drawn by: P-FLAUGERE
Checked by: DTFOOTE

Screened by: EPS CREW
Drawn by: P-FLAUGERE
Checked by: DTFOOTE

4. Tunnel protection bund 2025
3. Western Side Extended 2025
2. Freshwater 400m 2025
1. Lidar data Sep 2023 2023

No. Revision/Issue Date

1. 2025

2. 2025

3. 2025

4. 2025

5. 2025

6. 2025

7. 2025

8. 2025

9. 2025

10. 2025

11. 2025

12. 2025

13. 2025

14. 2025

15. 2025

16. 2025

17. 2025

18. 2025

19. 2025

20. 2025

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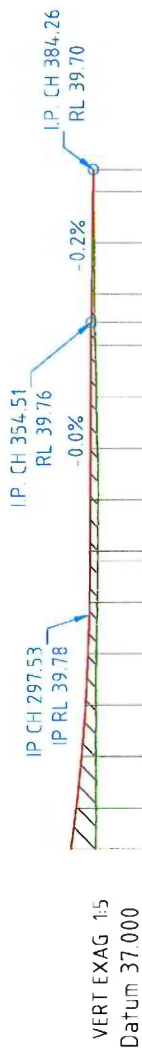
236. 2025

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240. 20

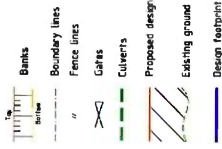


DESIGN LEVELS	40.484	39.511	0.973	252.00	260.00	270.00	280.00	290.00	300.00	310.00	320.00	330.00	340.00	350.00	360.00	370.00	380.00	384.26
LIDAR LEVELS	40.277	39.490	0.786	39.505	39.514	39.529	39.540	39.503	39.487	39.476	39.471	39.498	39.543	39.602	39.749	39.729	39.694	39.709
DEPTH				0.568	0.415	0.299	0.269	0.221	0.160	0.110	0.070	0.015						
CHAINAGE																		
HORIZONTAL	B: 213° 28' 21"			L: 130.424			B: 213° 41' 13"			L: 69.295			B: 213° 41' 13"			L: 29.751		
VERTICAL	G: -0.8%			L: 2.128			G: -0.0%			L: 46.434			G: -0.2%			L: 29.751		

KANAKANAIA RD - LONG SECTION - PROPOSED DESIGN

General Notes

Keys



Alignment / Change
Stopbank - Te Karaka

Alignment / Change
Kanakanaia Road

Coordinate System in terms of NZTM 2000
Vertical Datum in terms of NZVD 2006

CIVIL PROJECT SOLUTIONS

Submitted by : CPS CREW 30/2025
Drawn by : P.F. AUGERE 03/2026
Checked by : D.F. OTE 03/2026

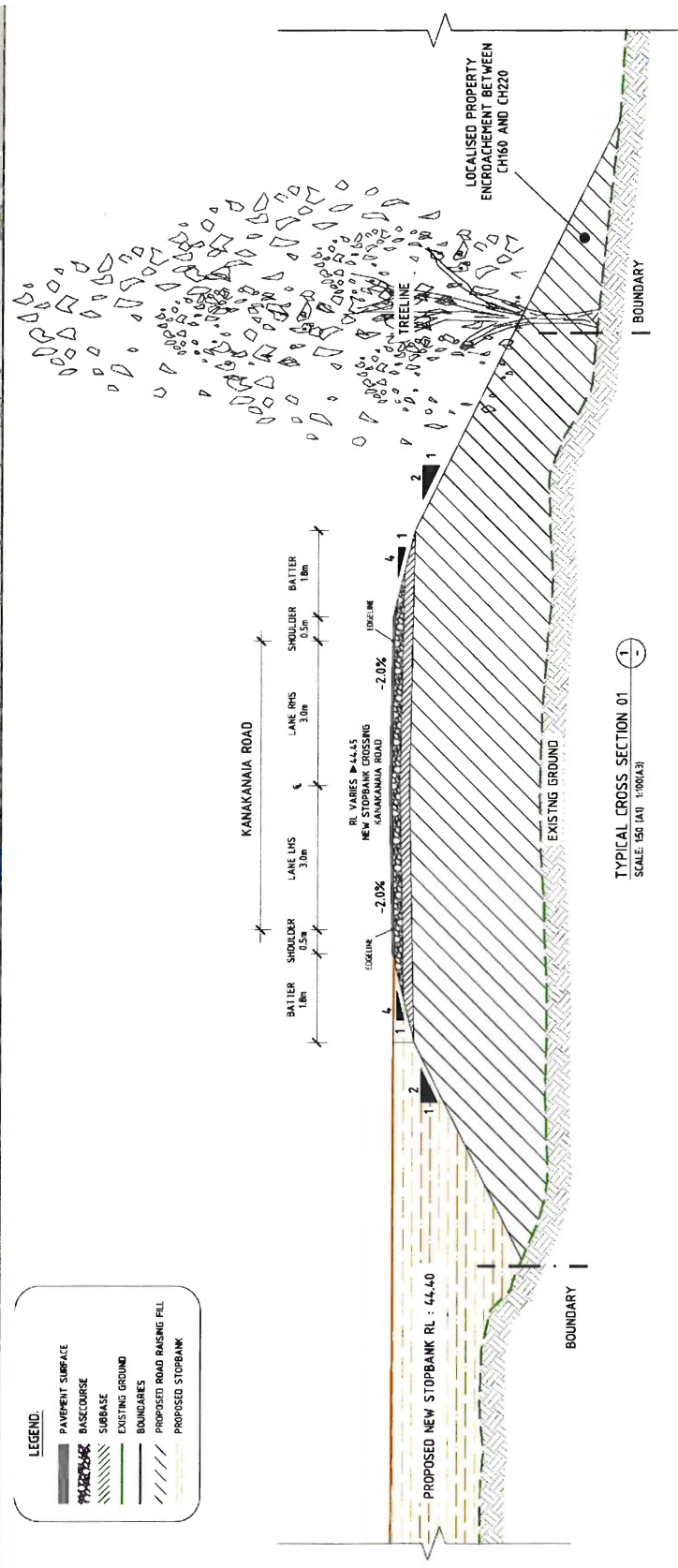
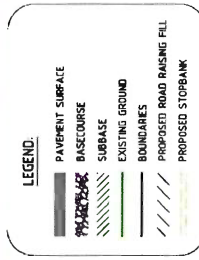
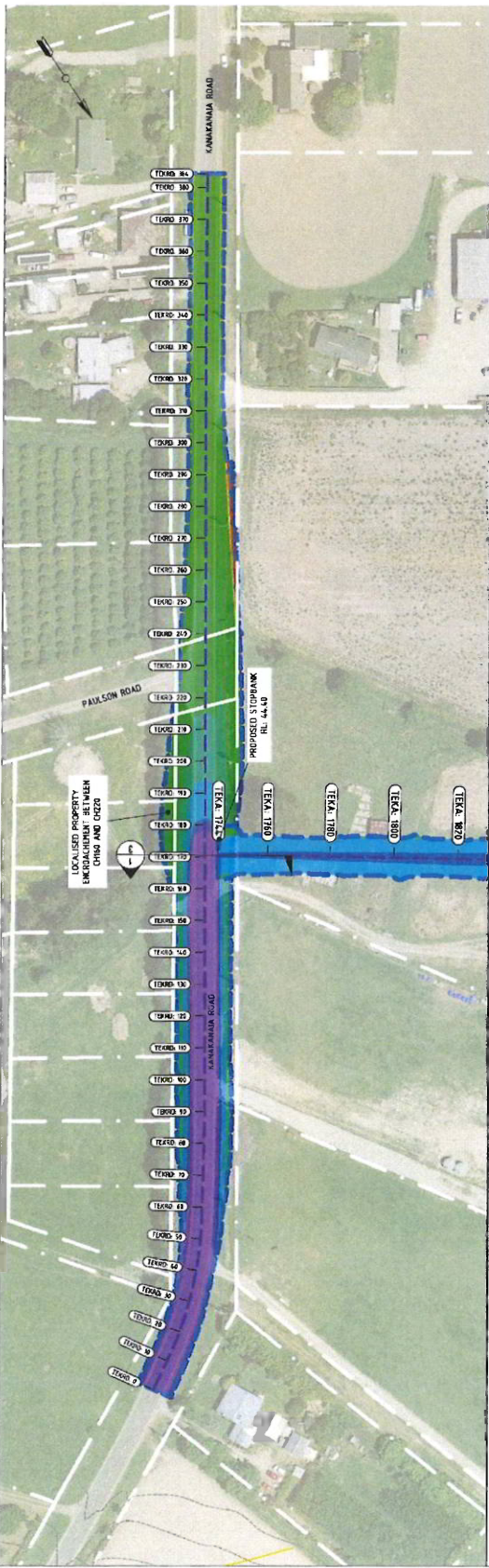
1. Lida date Sep 2023
2023
Revised Name
Date



TE KARAKA - TOWNSHIP
KANAKANAIA ROAD
PROPOSED DESIGN
LONG SECTION

TE KARAKA
20.03.2026
1:1000 @ A3

2



General Notes

Keys

- Boundary lines
- Fence lines
- Gates
- Culverts
- Proposed design
- Existing ground
- Design footprint
- Alignment / Chainage
- Subbase - Te Karaka
- Alignment / Chainage
- Kanakanaia Road

Coordinate System in term of : NZTM 2000

Vertical Datum in term of : NZVD 2005

CIVIL PROJECT SOLUTIONS

Serviced by : CPS CREW 10/2025

Drawn by : PFLADDER 03/2026

Checked by : DEDOTE (DD) 03/2026

1. Letter date Sat 2023

2023

Revision/Date

No.

Date



TE KARAKA - TOWNSHIP

KANAKANAIA ROAD

PROPOSED DESIGN

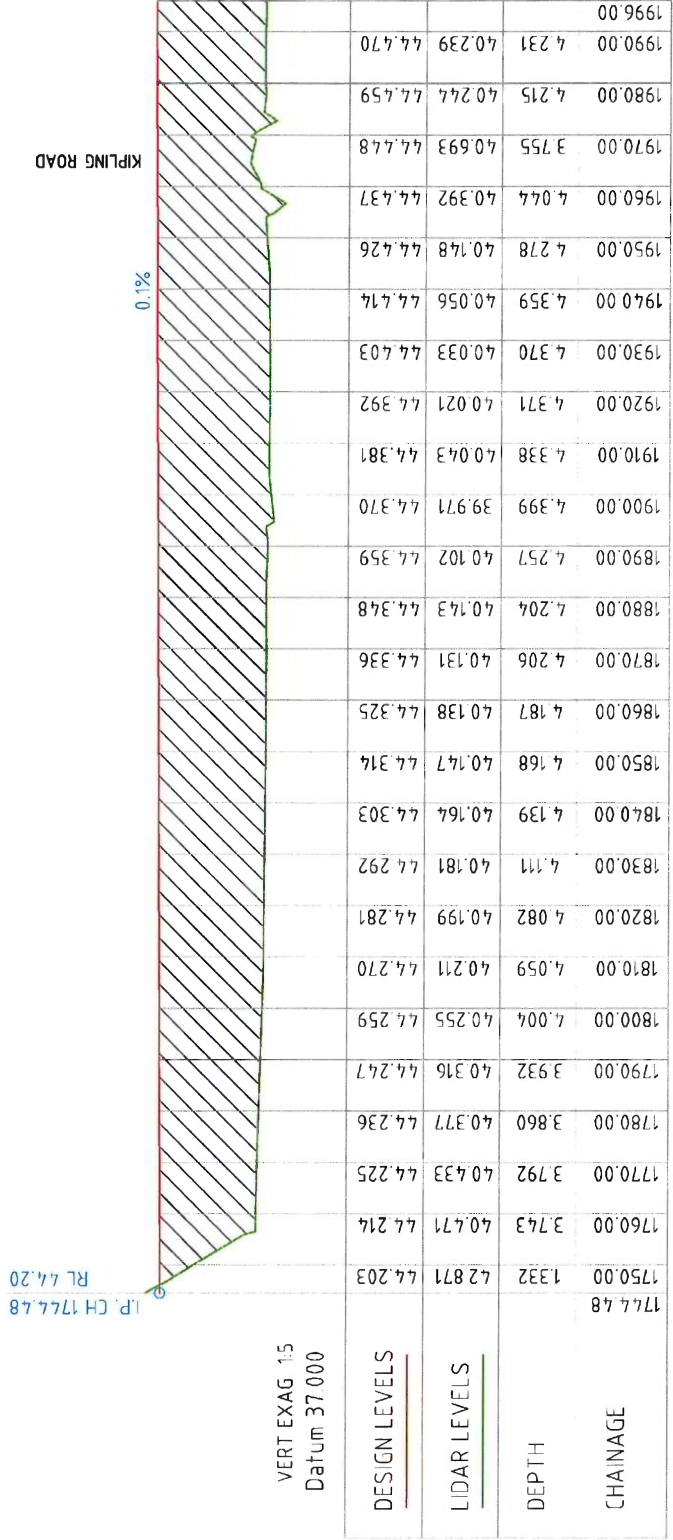
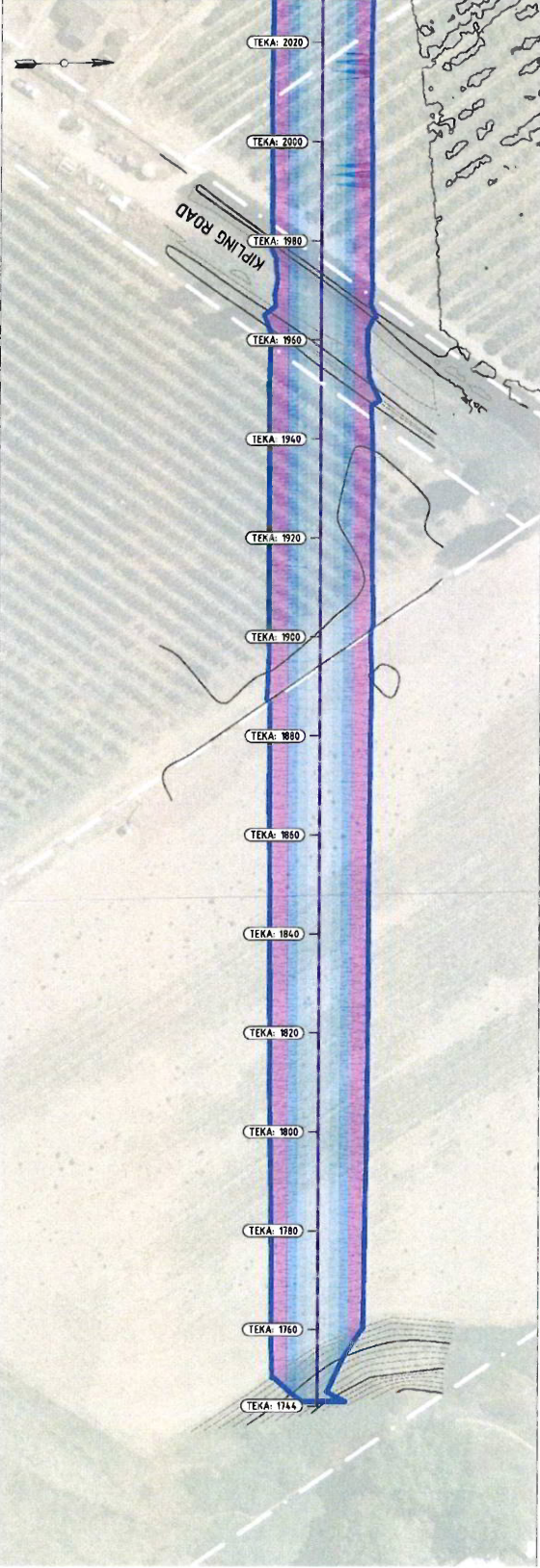
LAYOUT - TYPICAL SECTION

Project: TE KARAKA

Date: 20.03.2026

Scale: 1:1500 @ A3

3



WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes

Keys

- TEKA: 1744
- TEKA: 1760
- TEKA: 1780
- TEKA: 1800
- TEKA: 1820
- TEKA: 1840
- TEKA: 1860
- TEKA: 1880
- TEKA: 1900
- TEKA: 1920
- TEKA: 1940
- TEKA: 1960
- TEKA: 1980
- TEKA: 2000
- TEKA: 2020

Alignment / Chainage

Waipapa river - Te Karaka

Coordinates System in term of : NZTM 2000

Vertical Datum in term of : NZVD 2006

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW 10/2025

Drawn by : P.F. ANDRE 03/2026

Checked by : D.F. OTE 03/2026

4. SP2 Stoplines corrected 2020

3. Western Side Extended 2020

2. Freestone 60mm 2020

1. Lidar data Set 2023 2023

Rev. Revision/Date

GISBORNE DISTRICT COUNCIL

Te Rauwharua o Te Taiāwhi

CPS

WAIPAPA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

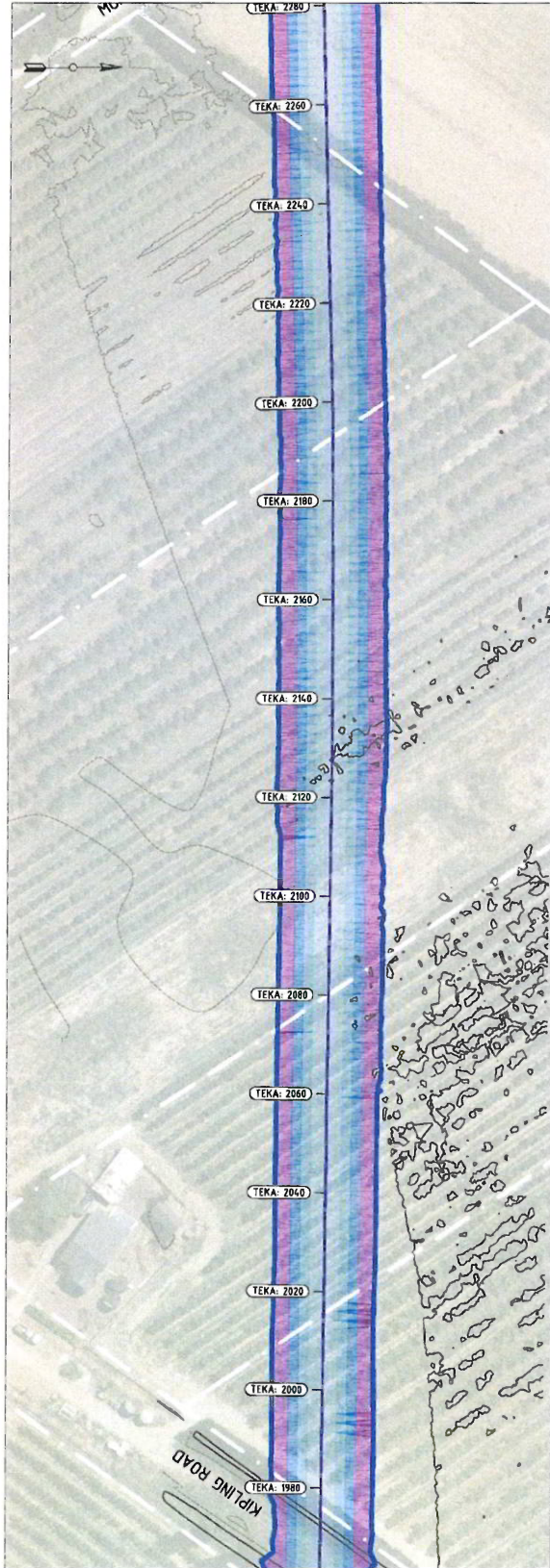
LONG SECTION

1

WAIPAPA RIVER

Date: 03.03.2026

Scale: 1:1000 @ A3

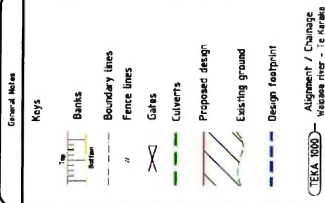


IP CH 2734.88
RL 44.63

VERT EXAG 15
Datum 37.000

CHAINAGE	1996.00	2000.00	2010.00	2020.00	2030.00	2040.00	2050.00	2060.00	2070.00	2080.00	2090.00	2100.00	2110.00	2120.00	2130.00	2140.00	2150.00	2160.00	2170.00	2180.00	2190.00	2200.00	2210.00	2220.00	2230.00	2240.00	2248.00
DEPTH	4.270	4.021	4.481	4.094	4.184	4.223	4.179	4.146	4.144	4.188	4.387	4.307	4.250	4.126	4.568	4.503	4.470	4.499	4.563	4.329	4.437	4.476	4.451	4.376	4.435	4.384	4.035
LIDAR LEVELS																											
DESIGN LEVELS																											

WESTERN ALIGNMENT - V06 - LONG SECTION



Coordinates System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

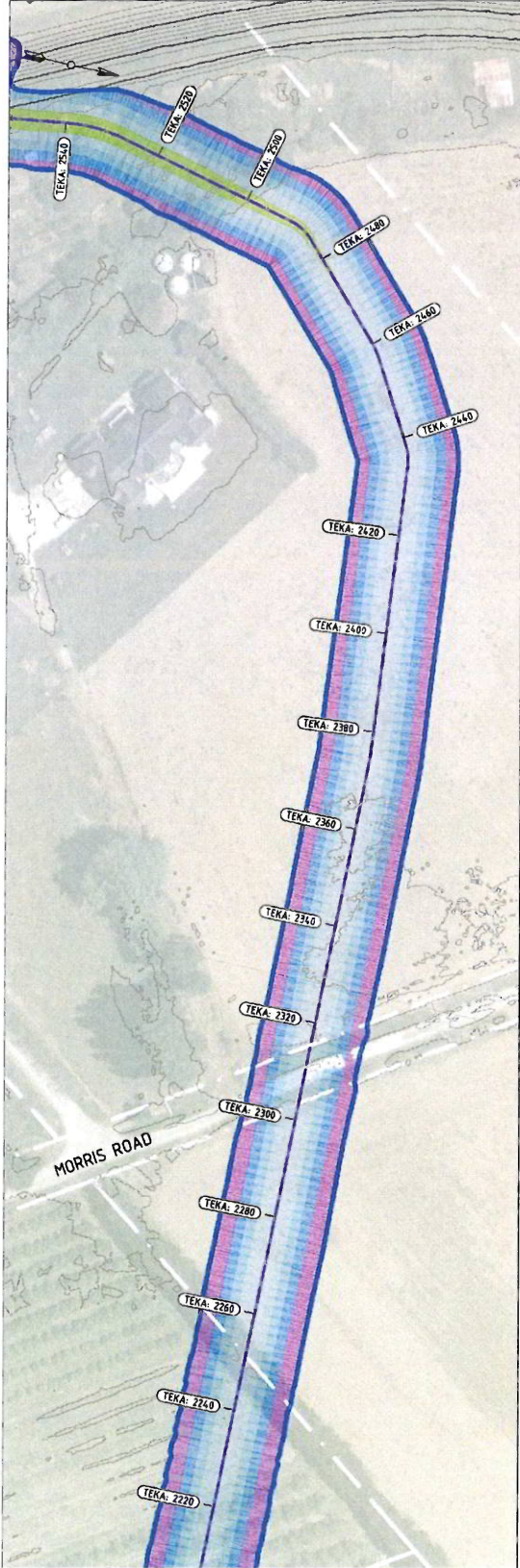
CIVIL PROJECT SOLUTIONS
Surveyed by : CPS CREW 10/2025
Drawn by : P.F. AUBREY 03/2026
Checked by : J.F. OOTE 03/2026

No.	Revision/Name	Date
1	1. Lidar data set 2023	2023
2	2. Proposed design	2025
3	3. Western Side Extended	2025
4	4. Stop Stopbank correction	2025



WAIAPADA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
LONG SECTION

WAIAPADA RIVER	2
Date: 03.03.2026	
Scale: 1:1000 @ A3	



MORRIS ROAD

0.1%

VERT EXAG 15
Datum 38.000

DESIGN LEVELS	2248.00									
	4.357	4.402	4.4759	4.4761	4.4772	4.4772	4.4772	4.4772	4.4772	4.4772
LIDAR LEVELS	2250.00									
	4.329	4.4032	4.4761	4.4761	4.4772	4.4772	4.4772	4.4772	4.4772	4.4772
DEPTH	2260.00									
	4.477	4.477	4.4772	4.4772	4.4772	4.4772	4.4772	4.4772	4.4772	4.4772
CHAINAGE	2270.00									
	4.507	4.507	4.507	4.507	4.507	4.507	4.507	4.507	4.507	4.507
	2280.00									
	4.550	4.550	4.550	4.550	4.550	4.550	4.550	4.550	4.550	4.550
	2290.00									
	4.425	4.425	4.425	4.425	4.425	4.425	4.425	4.425	4.425	4.425
	2300.00									
	4.469	4.469	4.469	4.469	4.469	4.469	4.469	4.469	4.469	4.469
	2310.00									
	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342
	2320.00									
	4.308	4.308	4.308	4.308	4.308	4.308	4.308	4.308	4.308	4.308
	2330.00									
	4.363	4.363	4.363	4.363	4.363	4.363	4.363	4.363	4.363	4.363
	2340.00									
	4.371	4.371	4.371	4.371	4.371	4.371	4.371	4.371	4.371	4.371
	2350.00									
	4.369	4.369	4.369	4.369	4.369	4.369	4.369	4.369	4.369	4.369
	2360.00									
	4.410	4.410	4.410	4.410	4.410	4.410	4.410	4.410	4.410	4.410
	2370.00									
	4.369	4.369	4.369	4.369	4.369	4.369	4.369	4.369	4.369	4.369
	2380.00									
	4.350	4.350	4.350	4.350	4.350	4.350	4.350	4.350	4.350	4.350
	2390.00									
	4.293	4.293	4.293	4.293	4.293	4.293	4.293	4.293	4.293	4.293
	2400.00									
	4.256	4.256	4.256	4.256	4.256	4.256	4.256	4.256	4.256	4.256
	2410.00									
	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257
	2420.00									
	4.317	4.317	4.317	4.317	4.317	4.317	4.317	4.317	4.317	4.317
	2430.00									
	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217
	2440.00									
	4.210	4.210	4.210	4.210	4.210	4.210	4.210	4.210	4.210	4.210
	2450.00									
	4.198	4.198	4.198	4.198	4.198	4.198	4.198	4.198	4.198	4.198
	2460.00									
	4.142	4.142	4.142	4.142	4.142	4.142	4.142	4.142	4.142	4.142
	2470.00									
	4.057	4.057	4.057	4.057	4.057	4.057	4.057	4.057	4.057	4.057
	2480.00									
	4.067	4.067	4.067	4.067	4.067	4.067	4.067	4.067	4.067	4.067
	2490.00									
	4.0951	4.0951	4.0951	4.0951	4.0951	4.0951	4.0951	4.0951	4.0951	4.0951
	2500.00									
	4.081	4.081	4.081	4.081	4.081	4.081	4.081	4.081	4.081	4.081

WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes

Keys

- Benches
- Boundary lines
- Fence lines
- Gullies
- Culverts
- Proposed design
- Existing ground
- Design footprint
- Alignment / Change
- Vegetation - Te Karaka

TEKA 1000

Coordinate System in terms of NZTD 2000
Vertical Datum in terms of NZVD 2000

CIVIL PROJECT SOLUTIONS

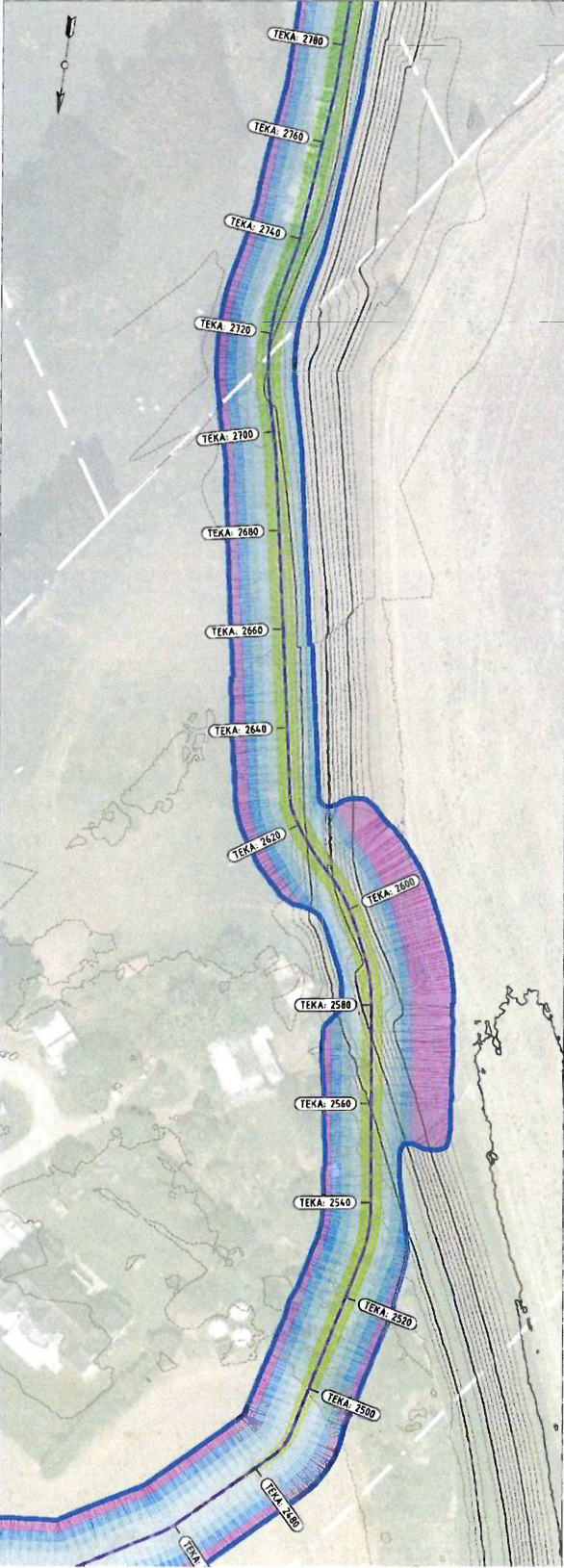
Surveyed by: CPS CREW 10/2025
Drawn by: P. LAURENCE 03/2026
Checked by: J. FORT 03/2026

No.	Revision/Issue	Date
1	1. Lidar data Sat 2023	2023
2	2. Proposed design	2025
3	3. Western Side Carriageway	2025
4	4. S102 Shrubland connection	2025

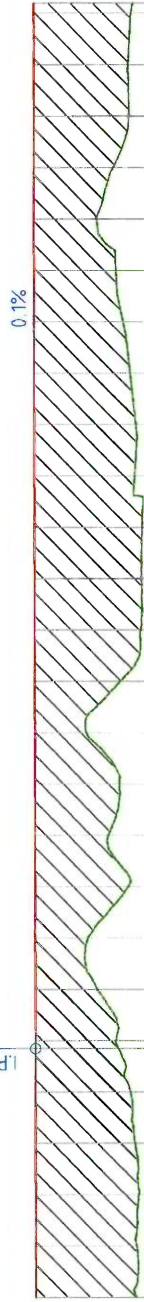


WAIPADA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
LONG SECTION

Project	3
Drawn	03/03/2026
Scale	1:1000 @ A3



IP CH 2548.47
RL 45.10



VERT EXAG 1:5
Datum 39 000

DESIGN LEVELS

LIDAR LEVELS

DEPTH

CHAINAGE

2500.00	3.958	4.1085	45.043
2510.00	3.970	4.1085	45.054
2520.00	4.054	4.1012	45.066
2530.00	3.920	4.1157	45.077
2540.00	3.753	4.1335	45.088
2550.00	3.171	4.1928	45.099
2560.00	2.464	4.2646	45.111
2570.00	2.094	4.3028	45.122
2580.00	3.662	4.1471	45.133
2590.00	2.909	4.2235	45.144
2600.00	3.351	4.1805	45.155
2610.00	2.051	4.3115	45.167
2620.00	3.381	4.1797	45.178
2630.00	4.170	4.1019	45.189
2640.00	4.213	4.0987	45.200
2650.00	4.245	4.0966	45.212
2660.00	3.961	4.1261	45.223
2670.00	4.014	4.1220	45.234
2680.00	3.798	4.1448	45.245
2690.00	3.527	4.1729	45.256
2700.00	3.250	4.2017	45.268
2710.00	2.500	4.2779	45.279
2720.00	3.152	4.2138	45.290
2730.00	3.753	4.1548	45.301
2740.00	3.723	4.1589	45.312
2750.00	3.833	4.1491	45.324
2752.00			

WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes

Keys

- Barbed wire
- Boundary lines
- Fence lines
- Gullies
- Culverts
- Proposed design
- Existing ground
- Design footprint
- Alignment / Change
- Visions river - Te Karaka

Coordinates System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2004

CIVIL PROJECT SOLUTIONS

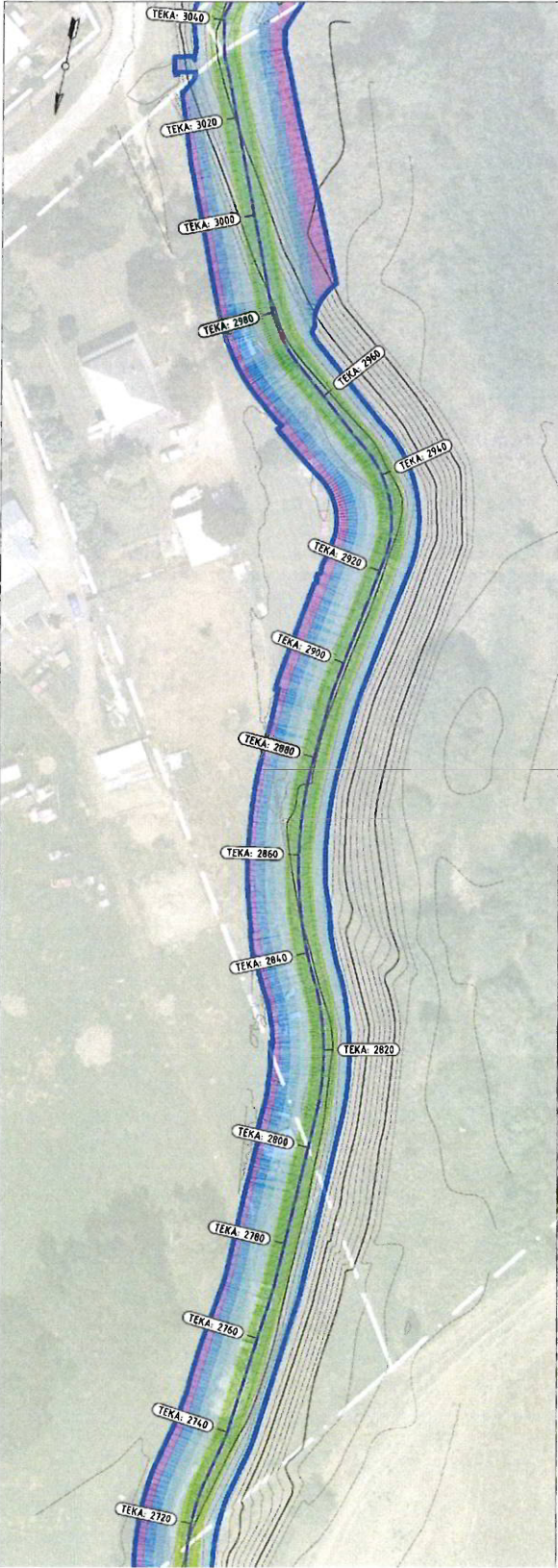
Survised by : GPS CREW 10/2025
Drawn by : P.F. AUGERE 03/2026
Checked by : D.F. OTE 03/2026

1	502 Stopbank connection	2025
2	Western Side Extended	2025
3	Frederick 500m	2025
4	Lidar data Set 2023	2023
5	Revision/Issue	Date



WAIKATO RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
LONG SECTION

WAIKATO RIVER	4
Date	03/03/2026
Scale	1:1000 @ A3



VERT EXAG 1:5 Datum 39.000				0.1%		I.P. CH 2836.81 RL 45.42		I.P. CH 2960.79 RL 45.56		3004.00	
CHAINAGE	DEPTH	LIDAR LEVELS	DESIGN LEVELS								
2752.00	3.914	41.412	45.326								
2760.00	4.034	41.301	45.335								
2770.00	3.936	41.410	45.346								
2780.00	3.922	41.435	45.357								
2790.00	3.891	41.478	45.368								
2800.00	3.834	41.546	45.380								
2810.00	3.522	41.869	45.391								
2820.00	3.673	41.729	45.402								
2830.00	3.333	42.080	45.413								
2840.00	3.247	42.178	45.425								
2850.00	2.653	42.783	45.436								
2860.00	2.108	43.339	45.447								
2870.00	2.631	42.827	45.458								
2880.00	3.157	42.312	45.469								
2890.00	3.266	42.214	45.480								
2900.00	3.363	42.128	45.491								
2910.00	3.407	42.095	45.502								
2920.00	3.340	42.173	45.513								
2930.00	3.767	41.757	45.524								
2940.00	3.863	41.672	45.535								
2950.00	4.076	41.471	45.546								
2960.00	3.758	41.799	45.557								
2970.00	3.545	42.020	45.565								
2980.00	3.338	42.235	45.573								
2990.00	2.389	43.193	45.581								
3000.00	1.993	43.596	45.589								

General Notes

Keys

Boundary lines

Fence lines

Gullies

Culverts

Proposed design

Existing ground

Design footprint

Alignment / Change

Waikato river - Te Karaka

TEKA 3060

TEKA 3020

TEKA 3000

TEKA 2980

TEKA 2960

TEKA 2940

TEKA 2920

TEKA 2900

TEKA 2880

TEKA 2860

TEKA 2840

TEKA 2820

TEKA 2800

TEKA 2780

TEKA 2760

TEKA 2740

TEKA 2720

TEKA 3060

TEKA 3020

TEKA 3000

TEKA 2980

TEKA 2960

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TEKA 2720

TEKA 3060

TEKA 3020

TEKA 3000

TEKA 2980

TEKA 2960

TEKA 2940

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TEKA 2840

TEKA 2820

TEKA 2800

TEKA 2780

TEKA 2760

TEKA 2740

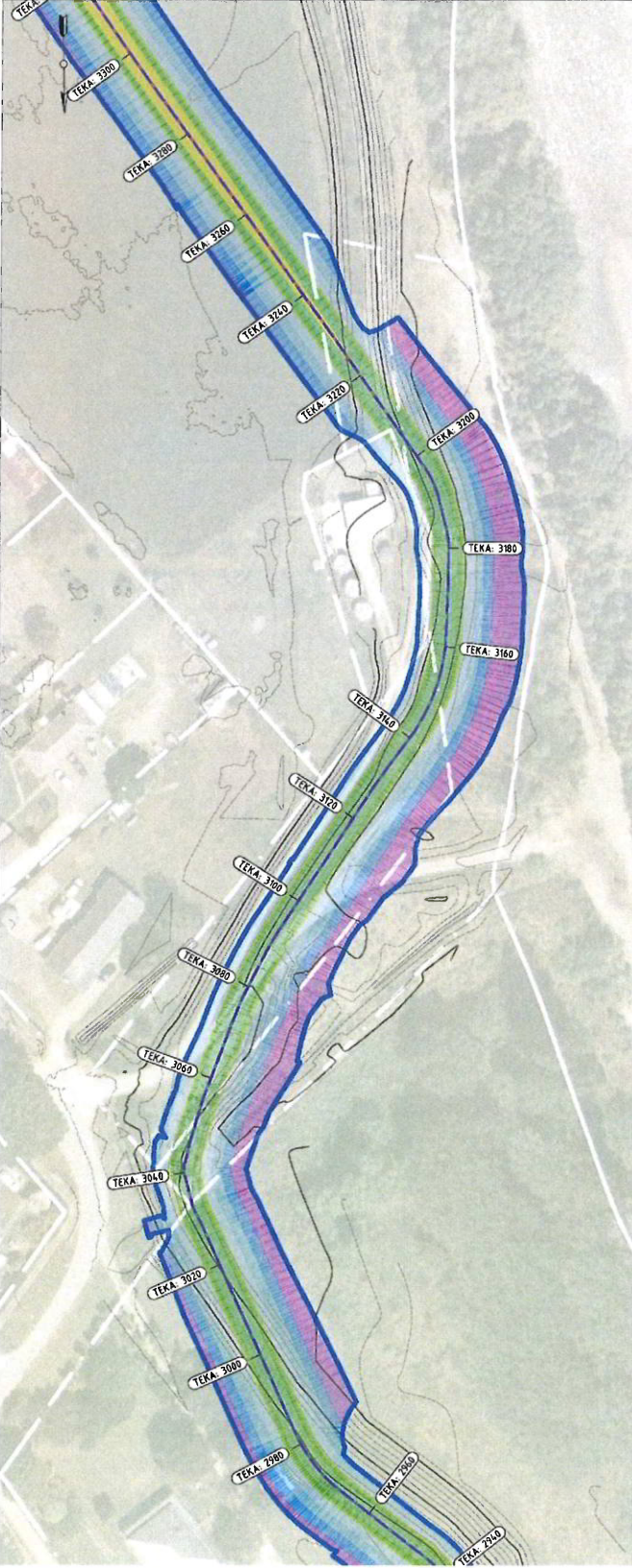
TEKA 2720

TEKA 3060

TEKA 3020

TEKA 3000

TEKA 2980



0.1%

VERT EXAG 1:5
Datum 39.000

DESIGN LEVELS	LIDAR LEVELS	DEPTH	CHAINAGE
			3004.00
			2.052
			43.540
			45.592
			3010.00
			2.418
			43.179
			45.597
			3020.00
			3.252
			42.352
			45.605
			3030.00
			3.640
			41.972
			45.613
			3040.00
			3.361
			42.259
			45.620
			3050.00
			3.172
			42.456
			45.628
			3060.00
			2.025
			43.611
			45.636
			3070.00
			2.160
			43.484
			45.644
			3080.00
			3.161
			42.491
			45.652
			3090.00
			3.837
			41.823
			45.660
			3100.00
			4.007
			41.661
			45.668
			3110.00
			4.025
			41.651
			45.675
			3120.00
			3.896
			41.788
			45.683
			3130.00
			4.127
			41.564
			45.691
			3140.00
			4.510
			41.189
			45.699
			3150.00
			4.822
			40.885
			45.707
			3160.00
			4.785
			40.930
			45.715
			3170.00
			4.143
			41.579
			45.723
			3180.00
			4.525
			41.205
			45.730
			3190.00
			3.985
			41.753
			45.738
			3200.00
			3.596
			42.150
			45.746
			3210.00
			2.714
			43.040
			45.754
			3220.00
			2.265
			43.497
			45.762
			3230.00
			3.919
			41.851
			45.770
			3240.00
			4.117
			41.660
			45.778
			3250.00
			4.158
			41.627
			45.785
			3256.00

WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes

Keys

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

Alignment / Chainage

Waipapa river - Te Aheke

TEKA 3000

TEKA 2900

TEKA 2800

TEKA 2700

TEKA 2600

TEKA 2500

TEKA 2400

TEKA 2300

TEKA 2200

TEKA 2100

TEKA 2000

TEKA 1900

TEKA 1800

TEKA 1700

TEKA 1600

TEKA 1500

TEKA 1400

TEKA 1300

TEKA 1200

TEKA 1100

TEKA 1000

TEKA 900

TEKA 800

TEKA 700

TEKA 600

TEKA 500

TEKA 400

TEKA 300

TEKA 200

TEKA 100

TEKA 000

TEKA -100

TEKA -200

TEKA -300

Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2006

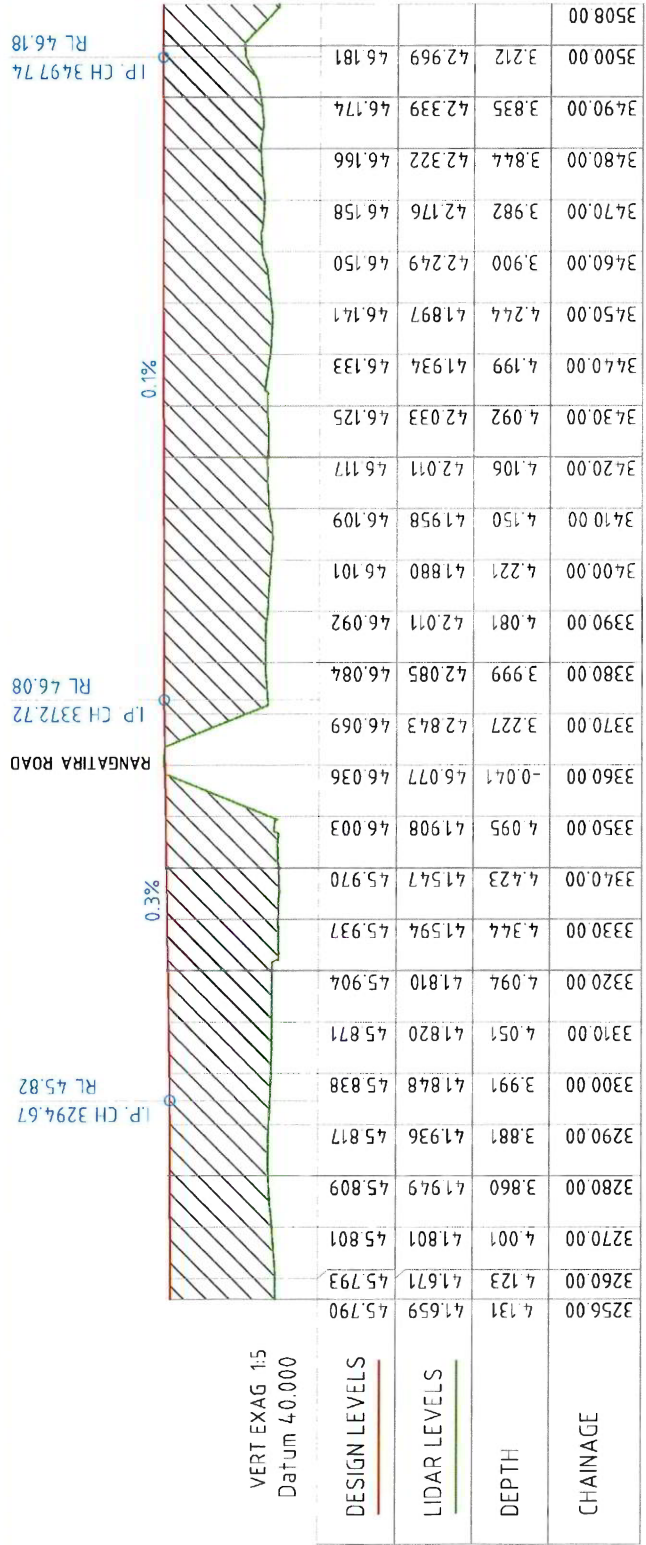
CIVIL PROJECT SOLUTIONS
Surveyed by : CPS CREW 10/2025
Drawn by : P.FLAUGERE 03/2026
Checked by : D.FOOTE 03/2026

4.	SOP Stopbank correction	2026
3.	Western Side Catchment	2025
2.	Frederick 100m	2025
1.	Lidar data Sep 2023	2023
No.	Revision/Name	Date



WAIPAPA RIVER
TE KAPAKA TOWNSHIP
WESTERN SIDE STOPBANK
LONG SECTION

Project	WAIPAPA RIVER
Date	03.03.2026
Scale	1:1000 @ A3
Page	6



WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes	Keys  Boundary lines Fence lines Gates Culverts Proposed design Existing ground Design footprint Alignment / Clearance Wabunan river - 15 m clear TERA 1000	Coordinate System in terms of : NAD 1973 1000 Vertical Datum in term of : NAD 100 20%
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CIVIL PROJECT SOLUTIONS		
Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	03/2026
Checked by :	D.FOOTE	03/2026

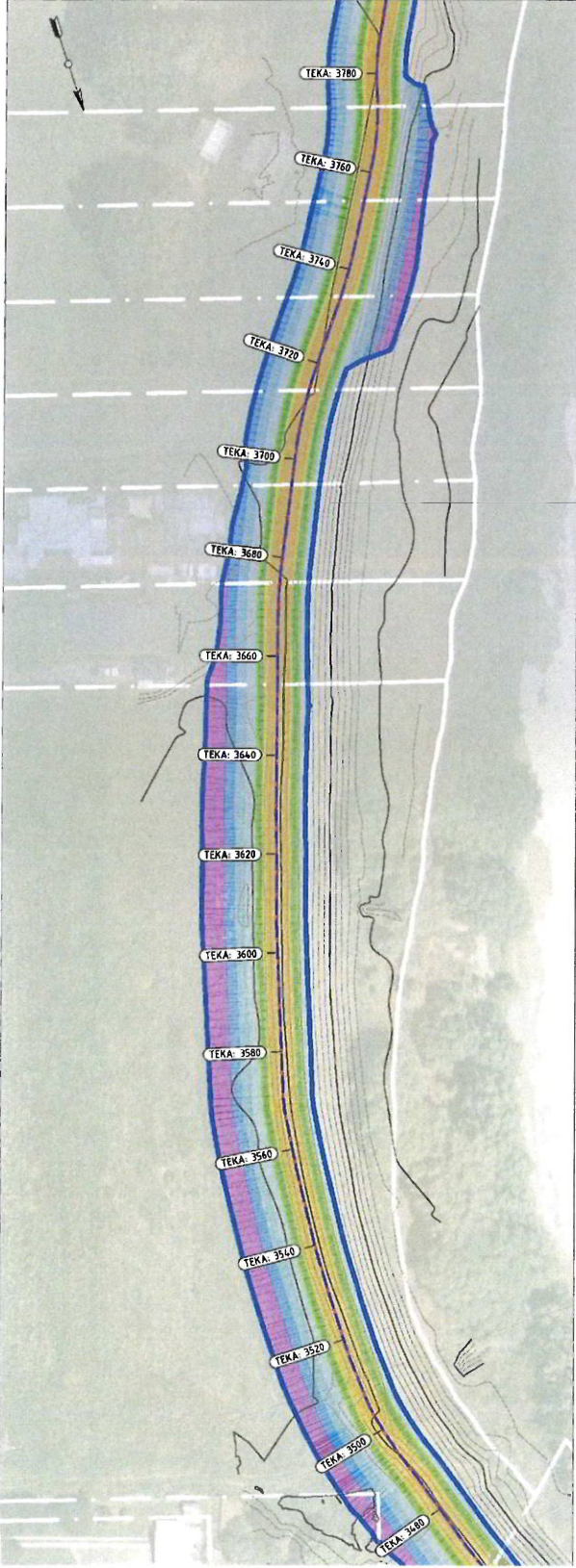
No.	Revision/Issue	Date
1	Initial data Set 2023	2023
2	Freeboard 500mm	2025
3	Western Side Extended	2025
4	SH2 Shopbank connection	2025



WAIPAHO RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
LONG SECTION

Project	WAIKAPA RIVER	S. NAME	7
Date	03.03.2026		
Revision	1:1000 @ A3		

Datum 40.000



CHAINAGE	DEPTH	LIDAR LEVELS	DESIGN LEVELS
3508.00	4.570	4.613	4.6183
3510.00	4.614	4.1570	4.6184
3520.00	4.447	4.1739	4.6186
3530.00	4.255	4.1934	4.6189
3540.00	4.149	4.2043	4.6192
3550.00	4.137	4.2057	4.6194
3560.00	4.214	4.1983	4.6197
3570.00	4.343	4.1856	4.6200
3580.00	4.174	4.2028	4.6202
3590.00	4.055	4.2150	4.6205
3600.00	4.133	4.2074	4.6208
3610.00	4.172	4.2038	4.6210
3620.00	4.122	4.2091	4.6213
3630.00	4.135	4.2081	4.6216
3640.00	4.304	4.1914	4.6218
3650.00	4.366	4.1855	4.6221
3660.00	4.501	4.1722	4.6224
3670.00	4.538	4.1688	4.6226
3680.00	2.901	4.3328	4.6229
3690.00	2.712	4.3520	4.6232
3700.00	3.114	4.3120	4.6234
3710.00	3.526	4.2710	4.6237
3720.00	3.866	4.2373	4.6240
3730.00	3.144	4.3098	4.6242
3740.00	2.723	4.3522	4.6245
3750.00	2.592	4.3655	4.6248
3760.00			

WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes	Keys	Alignment / Change
	Banks	Wesley river - 10' Kerala
		
	Boundary lines	
		
	Fence lines	
		
	Gates	
		
	Culverts	
		
	Proposed design	
		
	Existing ground	
		
	Design footprint	
		

Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2004

CWE PROJECT SOLUTIONS	
Surveyed by:	OPS CREW 10/2075
Drawn by:	P.F. LAUREN 03/2026
Checked by:	D.FORTE 03/2026

No.	Revision/Name	Date
4	SQZ Stopband correction	2026
3	Western Side Entrance	2026
2	Fireboard 500mm	2026
1	Letter data Set 2023	2023

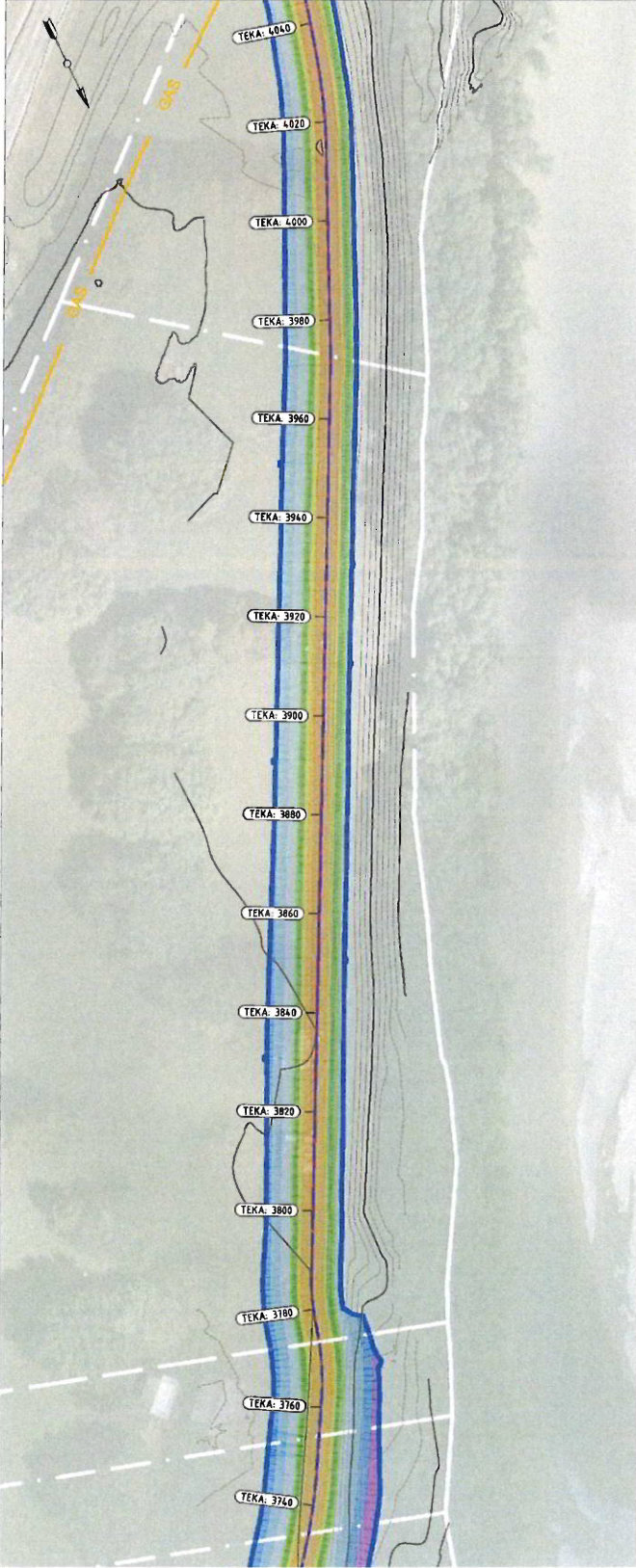
Free Home and Office

GISBORNE
DISTRICT COUNCIL
Te Kauhitera o Te Taiarāwhiti

CPS
Child Protection Services

Project Name and Address
**WAIPOA RIVER
 TE KAKA - TOWNSHIP
 WESTERN SIDE STOPBANK
 LONG SECTION**

Project WAIPADA RIVER	Scale 8
Date 03.03.2026	
Revised 1:1000 @ A3	



VERT EXAG 1:5 Datum 40 000		0.0%			
DESIGN LEVELS					
LIDAR LEVELS					
DEPTH					
CHAINAGE					
3760.00	2.447	43.803	46.250	46.253	46.256
3770.00	2.736	43.517	46.253	46.256	46.259
3780.00	3.713	42.542	46.256	46.259	46.262
3790.00	3.693	42.565	46.258	46.261	46.264
3800.00	3.569	42.692	46.261	46.264	46.267
3810.00	3.670	42.593	46.264	46.267	46.270
3820.00	3.659	42.607	46.266	46.269	46.272
3830.00	3.723	42.546	46.269	46.272	46.275
3840.00	3.742	42.530	46.272	46.275	46.278
3850.00	3.572	42.702	46.274	46.277	46.280
3860.00	3.516	42.761	46.277	46.280	46.283
3870.00	3.467	42.813	46.280	46.283	46.286
3880.00	3.436	42.846	46.282	46.285	46.288
3890.00	3.399	42.886	46.285	46.288	46.291
3900.00	3.436	42.852	46.288	46.291	46.294
3910.00	3.482	42.808	46.290	46.293	46.296
3920.00	3.462	42.831	46.293	46.296	46.299
3930.00	3.458	42.838	46.296	46.299	46.302
3940.00	3.456	42.843	46.298	46.301	46.304
3950.00	3.455	42.846	46.301	46.304	46.307
3960.00	3.477	42.857	46.304	46.307	46.310
3970.00	3.397	42.910	46.307	46.310	46.313
3980.00	3.347	42.968	46.309	46.312	46.315
3990.00	3.247	43.065	46.312	46.315	46.318
4000.00	3.224	43.091	46.315	46.318	46.321
4010.00	3.377	42.940	46.317	46.320	46.323
4020.00					

WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes

Keys

Benits

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

Alignment / Chainage

Waipara river - Te Karaka

Coordinate System in terms of NZTD 2000

Vertical Datum in terms of NZVD 2000

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW

Drawn by : P.F. AUGER

Checked by : D.F. OTE

10/2025

03/2026

03/2026

4. S12 Bridge connection

3. Western Side Culverts

2. Proposed 60mm

1. Lidar data Set 2023

2025

2025

2023

Revision/Issue

Date

GISBORNE

Te Karaka o Te Taiarua

CPS

Engineering Solutions

Waipara River

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

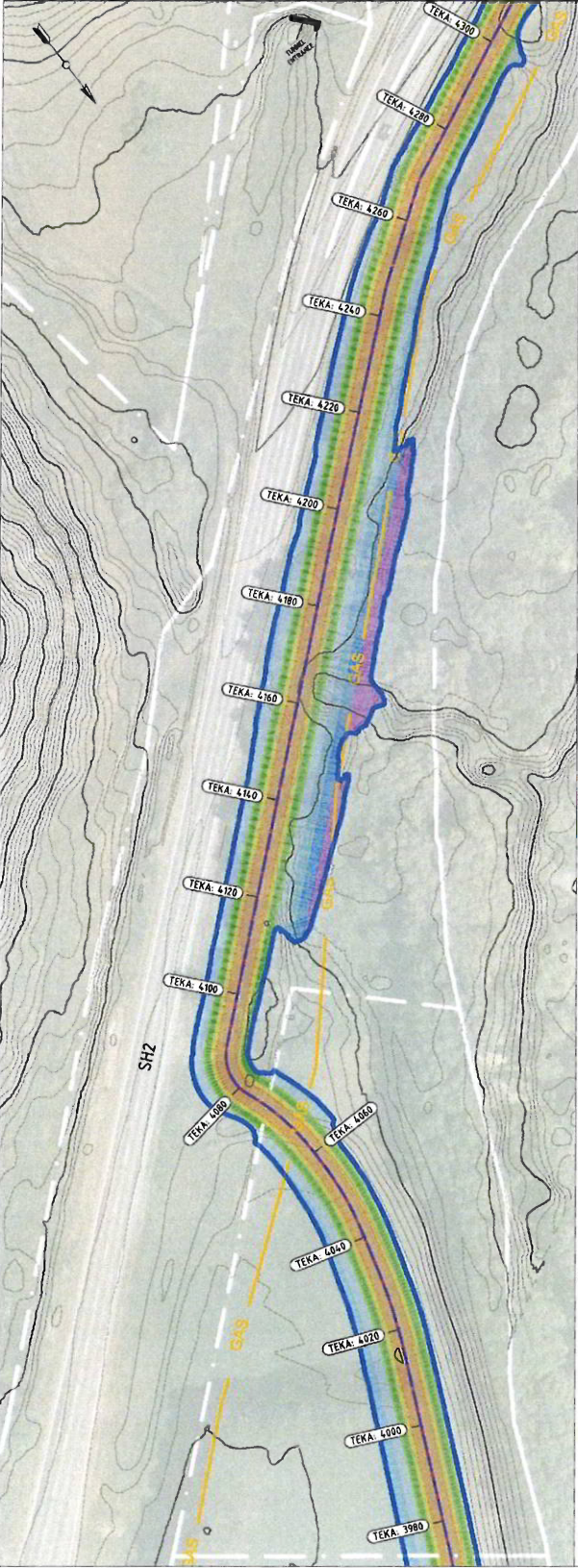
LONG SECTION

9

Waipara River

03/03/2026

1:1000 @ A3



VERT EXAG 1:5
Datum 40.000

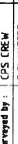
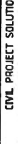
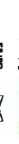
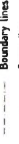
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CHAINAGE	4012.00	4020.00	4030.00	4040.00	4050.00	4060.00	4070.00	4080.00	4090.00	4100.00	4110.00	4120.00	4130.00	4140.00	4150.00	4160.00	4170.00	4180.00	4190.00	4200.00	4210.00	4220.00	4230.00	4240.00	4250.00	4260.00	4270.00
DEPTH	3.436	3.361	3.171	2.951	2.763	2.634	2.479	2.336	2.200	2.073	1.952	1.837	1.727	1.621	1.519	1.421	1.327	1.237	1.150	1.066	0.985	0.907	0.831	0.758	0.687	0.618	0.551
LIDAR LEVELS	42.882	42.959	43.152	43.374	43.565	43.897	44.249	44.614	44.990	45.374	45.763	46.156	46.552	46.951	47.352	47.754	48.157	48.561	48.965	49.370	49.775	50.180	50.585	50.990	51.395	51.800	52.205
DESIGN LEVELS	46.318	46.320	46.323	46.325	46.328	46.331	46.333	46.336	46.339	46.341	46.344	46.347	46.350	46.353	46.356	46.359	46.362	46.365	46.368	46.371	46.374	46.377	46.380	46.383	46.386	46.389	46.392

WESTERN ALIGNMENT - V06 - LONG SECTION

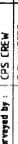
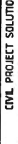
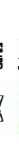
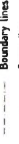
General Notes

Keys



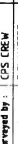
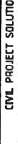
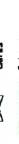
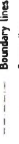
General Notes

Keys



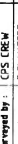
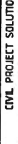
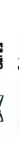
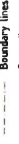
General Notes

Keys



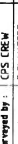
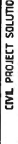
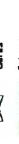
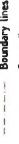
General Notes

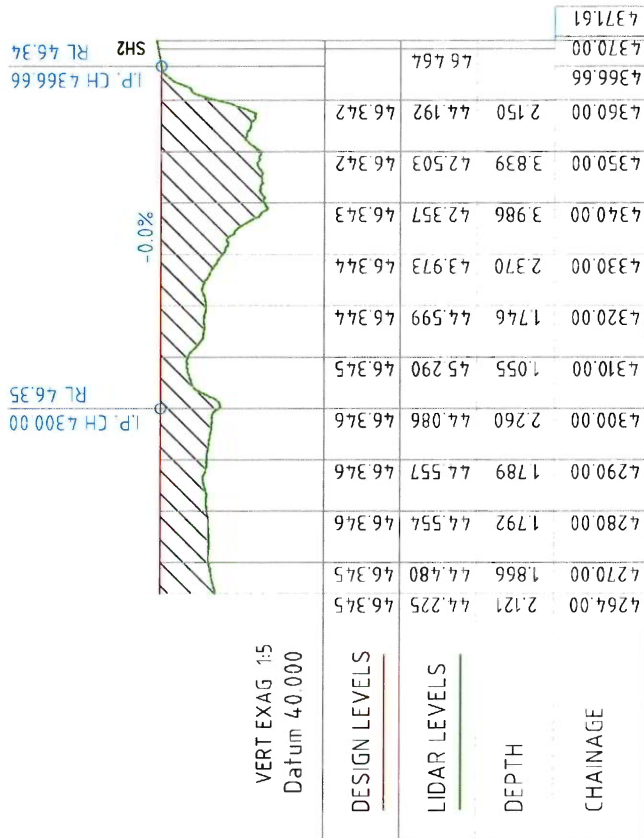
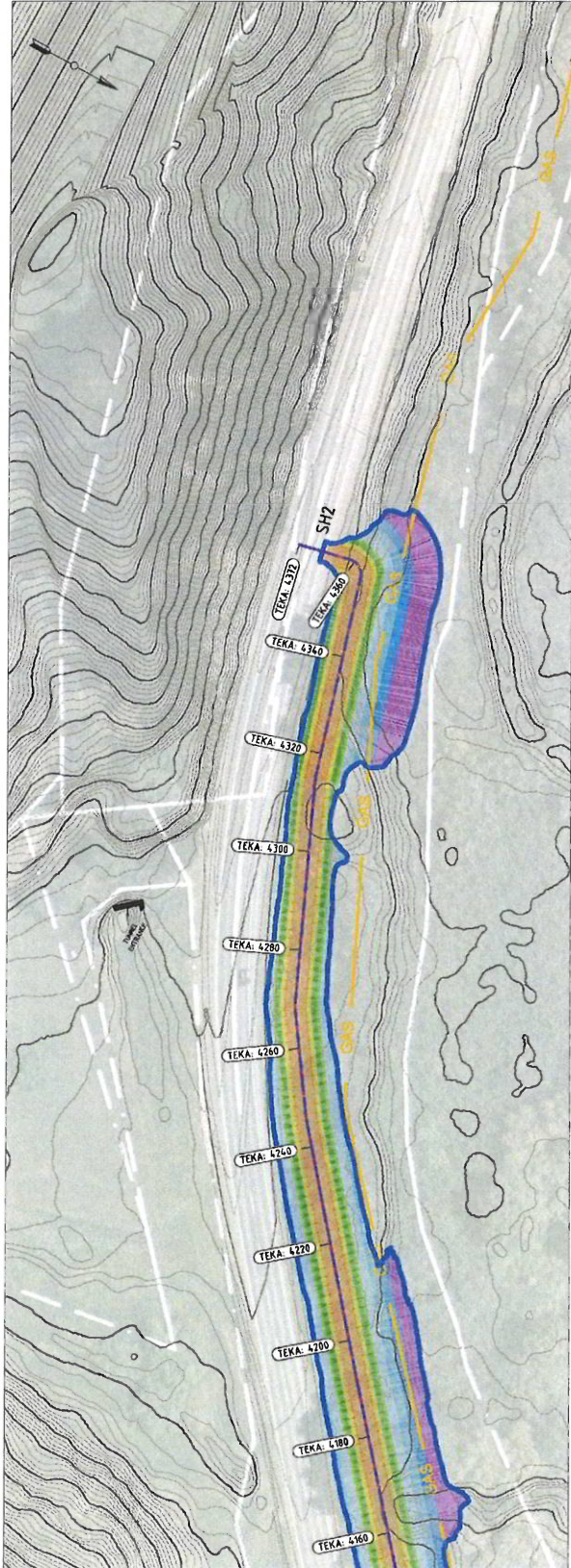
Keys



General Notes

Keys





WESTERN ALIGNMENT - V06 - LONG SECTION

General Notes

Keys

- Banks
- Boundary lines
- Fence lines
- Gates
- Culverts
- Proposed design
- Existing ground
- Design footprint
- Alignment / Change
- Waipapa river - Te Karaka

TEKA 1000

Coordinate System in terms of NZTD 2000
Vertical Datum in terms of NZVD 2006

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW 10/2025
Drawn by : P.F. AUGER 03/2026
Checked by : J.J. O'DRILL 03/2026

No.	Revisions/Date	Date
4	SAC Stephen connection	2025
3	Western Side Lotlines	2025
2	Freeboard 80mm	2025
1	Lidar data Set 2023	2023



WAIPAPA RIVER
TE KARAKA TOWNSHIP
WESTERN SIDE STOPBANK
LONG SECTION

Project: WAIPAPA RIVER
Date: 03.03.2026
Scale: 1:1000 @ A3