

Chainage 00.000
Datum: 35.000

PROPOSED LEVELS		39.914	40.392	40.011
EXISTING LEVELS		39.914	39.954	40.011
LEVEL DIFFERENCE		0.000	0.438	0.000
OFFSETS		-2.857	0.000	2.663

Total Volume at Station 0+000.00	
Cut Vol	0.00
Fill Vol	0.00

Chainage 40.000
Datum: 38.000

PROPOSED LEVELS		40.568	40.500	40.552
EXISTING LEVELS		40.568	40.560	40.552
LEVEL DIFFERENCE		0.000	-0.060	0.000
OFFSETS		-2.236	0.000	2.204

ROAD CROSSING
(NOT REQUIRED)

Total Volume at Station 0+040.00	
Cut Vol	3.65
Fill Vol	125.39

Chainage 20.000
Datum: 35.000

PROPOSED LEVELS		38.757	40.446	38.675
EXISTING LEVELS		38.757	38.703	38.675
LEVEL DIFFERENCE		0.000	1.743	0.000
OFFSETS		-5.278	0.000	5.442

Total Volume at Station 0+020.00	
Cut Vol	0.00
Fill Vol	144.90

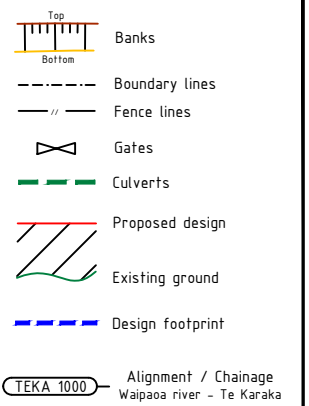
Chainage 60.000
Datum: 35.000

PROPOSED LEVELS		38.879	40.554	38.616
EXISTING LEVELS		38.879	38.833	38.616
LEVEL DIFFERENCE		0.000	1.721	0.000
OFFSETS		-5.249	0.000	5.775

Total Volume at Station 0+060.00	
Cut Vol	3.65
Fill Vol	125.77

General Notes

Keys

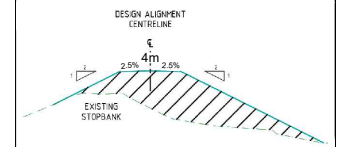


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOA RIVER	Sheet
Date 05.06.2026	1
Scale 1:500 @ A3	

Chainage 80.000
Datum: 35.000



Total Volume at Station 0+080.00	
Cut Vol	0.00
Fill Vol	255.82

PROPOSED LEVELS	38.899	40.608	38.696
EXISTING LEVELS	38.899	38.840	38.696
LEVEL DIFFERENCE	0.000	1.768	0.000
OFFSETS	-5.318	0.000	5.723

Chainage 120.000
Datum: 35.000



Total Volume at Station 0+120.00	
Cut Vol	0.00
Fill Vol	285.67

PROPOSED LEVELS	38.836	40.716	38.804
EXISTING LEVELS	38.836	38.811	38.804
LEVEL DIFFERENCE	0.000	1.904	0.000
OFFSETS	-5.659	0.000	5.723

Chainage 100.000
Datum: 35.000



Total Volume at Station 0+100.00	
Cut Vol	0.00
Fill Vol	271.92

PROPOSED LEVELS	38.868	40.662	38.707
EXISTING LEVELS	38.868	38.768	38.707
LEVEL DIFFERENCE	0.000	1.894	0.000
OFFSETS	-5.488	0.000	5.810

Chainage 140.000
Datum: 35.000

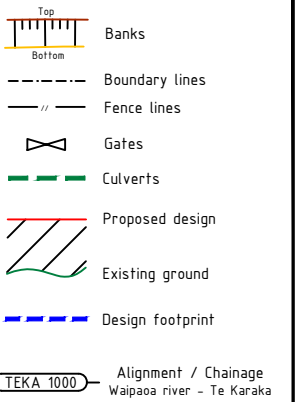


Total Volume at Station 0+140.00	
Cut Vol	0.00
Fill Vol	286.14

PROPOSED LEVELS	38.839	39.181	40.769	38.918
EXISTING LEVELS	38.839	38.844	38.879	38.918
LEVEL DIFFERENCE	0.000	0.337	1.890	0.000
OFFSETS	-5.762	-5.079	0.000	5.601

General Notes

Keys

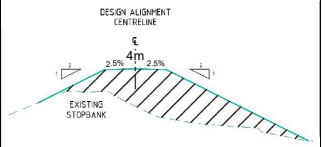


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOA RIVER	Sheet 2
Date 05.06.2026	
Scale 1:500 @ A3	

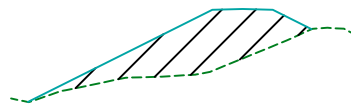
Chainage 160.000
Datum: 35.000



Total Volume at Station 0+160.00	
Cut Vol	0.00
Fill Vol	288.88

PROPOSED LEVELS	39.131	40.823	38.899	
EXISTING LEVELS	39.131	38.824	38.899	
LEVEL DIFFERENCE	0.000	2.000	0.000	
OFFSETS	-5.284	0.000	5.749	

Chainage 200.000
Datum: 32.000



Total Volume at Station 0+200.00	
Cut Vol	0.00
Fill Vol	497.84

PROPOSED LEVELS	34.779	38.436	40.929	39.596
EXISTING LEVELS	34.779	36.408	37.651	39.596
LEVEL DIFFERENCE	0.000	2.028	3.278	0.000
OFFSETS	-14.199	-6.886	0.000	4.569

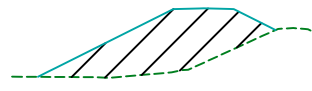
Chainage 180.000
Datum: 35.000



Total Volume at Station 0+180.00	
Cut Vol	0.00
Fill Vol	250.42

PROPOSED LEVELS	38.919	40.877	38.937	
EXISTING LEVELS	38.919	39.687	38.937	
LEVEL DIFFERENCE	0.000	1.190	0.000	
OFFSETS	-5.817	0.000	5.781	

Chainage 220.000
Datum: 32.000



Total Volume at Station 0+220.00	
Cut Vol	0.00
Fill Vol	761.99

PROPOSED LEVELS	36.439	37.045	40.966	39.530
EXISTING LEVELS	36.439	36.431	37.365	39.530
LEVEL DIFFERENCE	0.000	0.614	3.601	0.000
OFFSETS	-10.953	-9.741	0.000	4.772

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

⋈

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate 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.FLAUGERE

06/2026

Checked by : D.FOOTE

06/2026

TYPICAL CROSS SECTION

4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT

CENTRELINE

2.0%

4m

2.0%

EXISTING STOPBANK

Firm Name and Address

GISBORNE

DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER

TE KARAKA - TOWNSHIP

EASTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOA RIVER

Date

05.06.2026

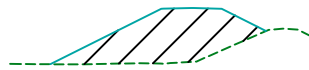
Scale

1:500 @ A3

Sheet

3

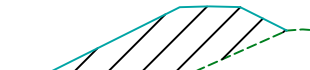
Chainage 240.000
Datum: 35.000



Total Volume at Station 0+240.00	
Cut Vol	0.00
Fill Vol	683.05

PROPOSED LEVELS	37.301	37.566	41.018	39.500
EXISTING LEVELS	37.301	37.297	37.456	39.500
LEVEL DIFFERENCE	0.000	0.269	3.562	0.000
OFFSETS	-9.334	-8.804	0.000	4.936

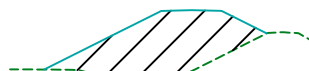
Chainage 280.000
Datum: 35.000



Total Volume at Station 0+280.00	
Cut Vol	0.00
Fill Vol	807.17

PROPOSED LEVELS	36.107	41.124	39.526
EXISTING LEVELS	36.107	37.263	39.526
LEVEL DIFFERENCE	0.000	3.861	0.000
OFFSETS	-11.935	0.000	5.096

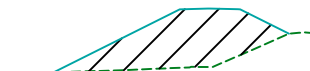
Chainage 260.000
Datum: 35.000



Total Volume at Station 0+260.00	
Cut Vol	0.00
Fill Vol	687.00

PROPOSED LEVELS	37.146	39.407	41.071	39.534
EXISTING LEVELS	37.146	36.542	37.034	39.534
LEVEL DIFFERENCE	0.000	2.864	4.037	0.000
OFFSETS	-9.750	-5.229	0.000	4.975

Chainage 300.000
Datum: 35.000

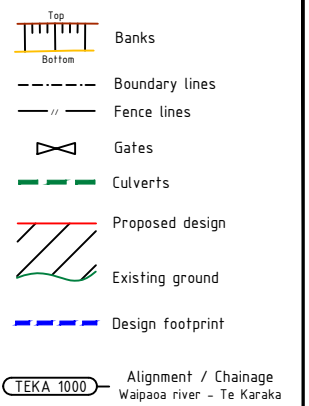


Total Volume at Station 0+300.00	
Cut Vol	0.00
Fill Vol	786.78

PROPOSED LEVELS	36.965	37.269	41.177	39.514
EXISTING LEVELS	36.965	36.983	37.309	39.514
LEVEL DIFFERENCE	0.000	0.286	3.868	0.000
OFFSETS	-10.324	-9.715	0.000	5.225

General Notes

Keys

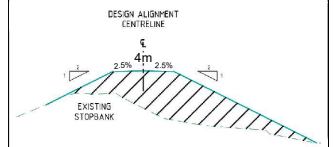


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

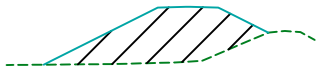
TYPICAL CROSS SECTION 4m WIDE STOPBANK (TOP)



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

Project WAIPAQA RIVER	Sheet 4
Date 05.06.2026	
Scale 1:500 @ A3	

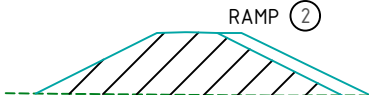
Chainage 320.000
Datum: 35.000



Total Volume at Station 0+320.00	
Cut Vol	0.00
Fill Vol	689.20

PROPOSED LEVELS	37.403	37.677	4.1230	39.521
EXISTING LEVELS	37.403	37.408	37.603	39.521
LEVEL DIFFERENCE	0.000	0.268	3.626	0.000
OFFSETS	-9.553	-9.006	0.000	5.318

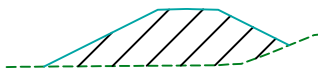
Chainage 360.000
Datum: 35.000



Total Volume at Station 0+360.00	
Cut Vol	0.00
Fill Vol	872.52

PROPOSED LEVELS	37.277	4.1336	37.159
EXISTING LEVELS	37.277	37.194	37.159
LEVEL DIFFERENCE	0.000	4.142	0.000
OFFSETS	-10.017	0.000	10.254

Chainage 340.000
Datum: 35.000



Total Volume at Station 0+340.00	
Cut Vol	0.00
Fill Vol	696.62

PROPOSED LEVELS	37.471	4.1283	38.884
EXISTING LEVELS	37.471	37.544	38.884
LEVEL DIFFERENCE	0.000	3.739	0.000
OFFSETS	-9.524	0.000	6.696

Chainage 380.000
Datum: 35.000



Total Volume at Station 0+380.00	
Cut Vol	0.00
Fill Vol	1106.22

PROPOSED LEVELS	36.727	4.1388	37.122	36.793
EXISTING LEVELS	36.727	36.744	36.786	36.793
LEVEL DIFFERENCE	0.000	4.644	0.335	0.000
OFFSETS	-11.223	0.000	10.434	11.091

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

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

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW10/2025

Drawn by : P.FLAUGERE06/2026

Checked by : D.FOOTE06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

Firm Name and Address

GISBORNE
DISTRICT COUNCIL
Te Kaunihera o Te Tairāwhiti

CPS
Civil Project Solutions

Project Name and Address

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

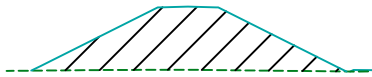
Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
5

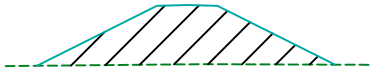
Chainage 400.000
Datum: 35.000



Total Volume at Station 0+400.00	
Cut Vol	0.00
Fill Vol	1122.20

PROPOSED LEVELS	37.206	37.509	4.144.1	37.458	37.151
EXISTING LEVELS	37.206	37.212	37.266	37.158	37.151
LEVEL DIFFERENCE	0.000	0.298	4.175	0.301	0.000
OFFSETS	-10.370	-9.764	0.000	9.866	10.481

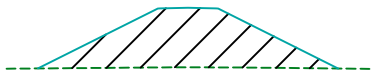
Chainage 440.000
Datum: 35.000



Total Volume at Station 0+440.00	
Cut Vol	0.00
Fill Vol	925.93

PROPOSED LEVELS	37.529	4.154.7	37.885	37.604
EXISTING LEVELS	37.529	37.625	37.606	37.604
LEVEL DIFFERENCE	0.000	3.922	0.279	0.000
OFFSETS	-9.936	0.000	9.225	9.787

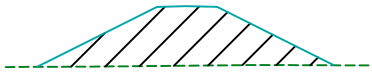
Chainage 420.000
Datum: 35.000



Total Volume at Station 0+420.00	
Cut Vol	0.00
Fill Vol	979.69

PROPOSED LEVELS	37.481	37.767	4.149.4	37.763	37.476
EXISTING LEVELS	37.481	37.486	37.557	37.482	37.476
LEVEL DIFFERENCE	0.000	0.281	3.938	0.280	0.000
OFFSETS	-9.926	-9.355	0.000	9.363	9.936

Chainage 460.000
Datum: 35.000



Total Volume at Station 0+460.00	
Cut Vol	0.00
Fill Vol	920.82

PROPOSED LEVELS	37.591	37.877	4.160.0	37.969	37.690
EXISTING LEVELS	37.591	37.592	37.663	37.692	37.690
LEVEL DIFFERENCE	0.000	0.285	3.937	0.277	0.000
OFFSETS	-9.918	-9.346	0.000	9.162	9.719

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

⋈

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate 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.FLAUGERE 06/2026

Checked by : D.FOOTE 06/2026

TYPICAL CROSS SECTION

4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

2.5%

4m

2.5%

EXISTING
STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project

WAIPAOA RIVER

Date

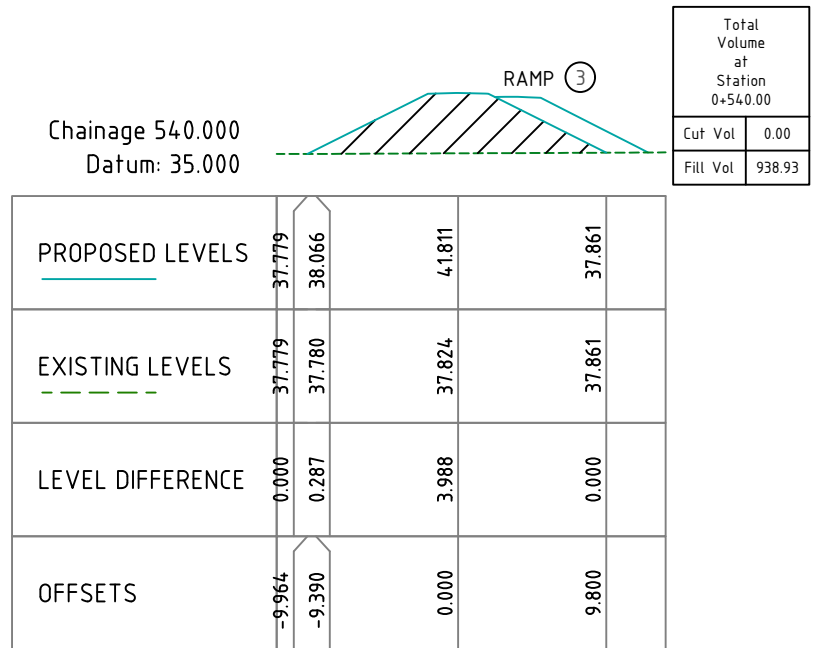
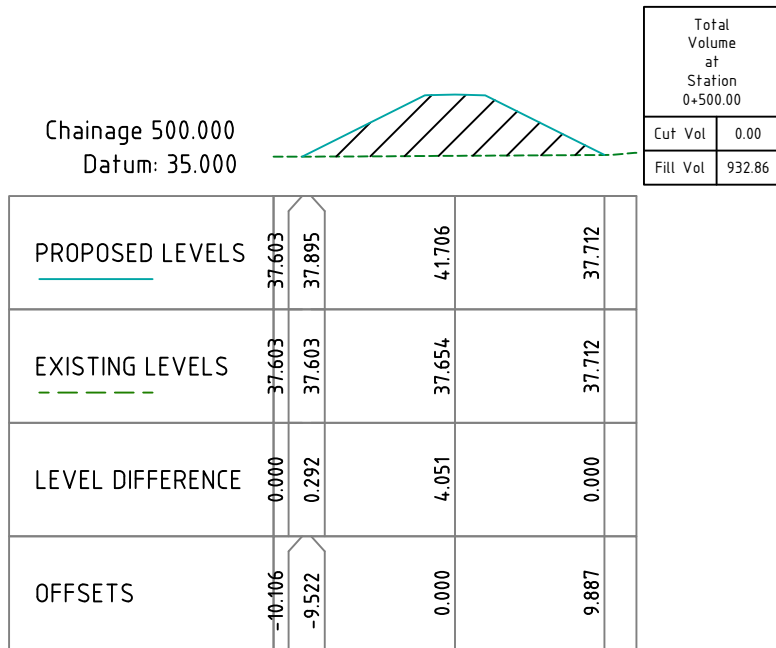
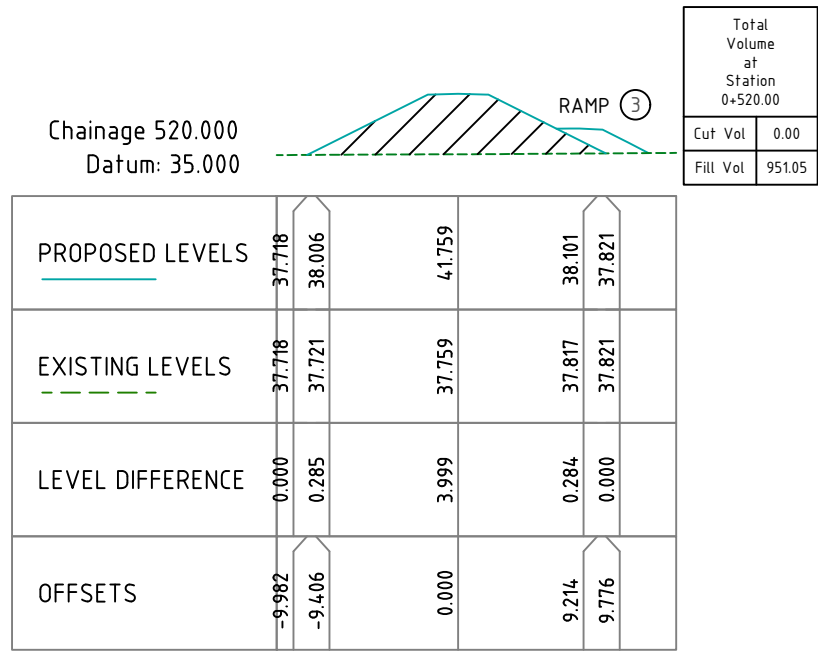
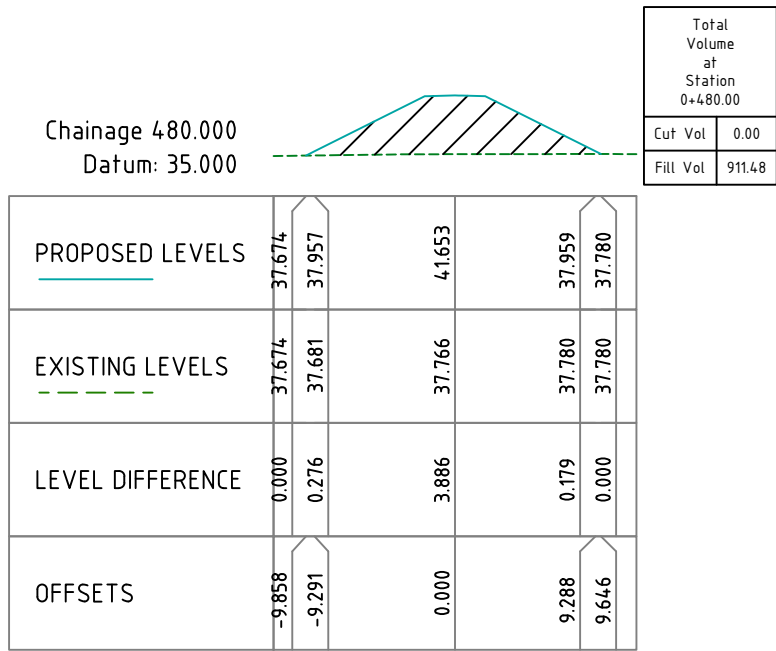
05.06.2026

Scale

1:500 @ A3

Sheet

6



General Notes

Keys

 Banks

 Boundary lines

 Fence lines

 Gates

 Culverts

 Proposed design

 Existing ground

 Design footprint

 Alignment / Chainage
Waipaoa river - Te Karaka

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

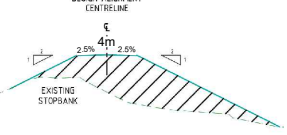
CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW 10/2025

Drawn by : P.FLAUGERE 06/2026

Checked by : D.FOOTE 06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Project Name and Address


Te Kaunihera o Te Tairāwhiti


Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project

WAIPAOPA RIVER

Date

05.06.2026

Scale

1:500 @ A3

Sheet

7

Chainage 560.000
Datum: 35.000

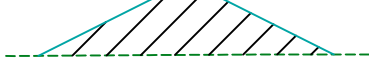
RAMP ③



Total Volume at Station 0+560.00	
Cut Vol	0.00
Fill Vol	940.63

PROPOSED LEVELS	37.847	38.133	41.864	37.890
EXISTING LEVELS	37.847	37.847	37.861	37.890
LEVEL DIFFERENCE	0.000	0.286	4.004	0.000
OFFSETS	-9.935	-9.363	0.000	9.848

Chainage 600.000
Datum: 35.000

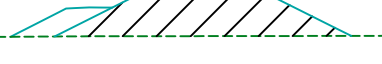


Total Volume at Station 0+600.00	
Cut Vol	0.00
Fill Vol	917.85

PROPOSED LEVELS	37.987	41.970	38.356	38.079
EXISTING LEVELS	37.987	38.051	38.078	38.079
LEVEL DIFFERENCE	0.000	3.919	0.278	0.000
OFFSETS	-9.866	0.000	9.129	9.683

Chainage 580.000
Datum: 35.000

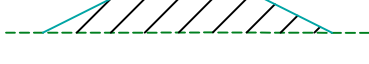
RAMP ③



Total Volume at Station 0+580.00	
Cut Vol	0.00
Fill Vol	932.87

PROPOSED LEVELS	37.940	41.917	38.542	37.980
EXISTING LEVELS	37.940	37.965	37.978	37.980
LEVEL DIFFERENCE	0.000	3.952	0.564	0.000
OFFSETS	-9.854	0.000	8.650	9.775

Chainage 620.000
Datum: 35.000



Total Volume at Station 0+620.00	
Cut Vol	0.00
Fill Vol	893.53

PROPOSED LEVELS	38.191	38.554	42.023	38.458	38.184
EXISTING LEVELS	38.191	38.191	38.204	38.186	38.184
LEVEL DIFFERENCE	0.000	0.363	3.819	0.272	0.000
OFFSETS	-9.563	-8.837	0.000	9.031	9.578

General Notes

Keys

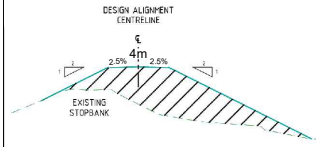
- Banks
- Boundary lines
- Fence lines
- Gates
- Culverts
- Proposed design
- Existing ground
- Design footprint
- Alignment / Chainage
Waipaoa river - Te Karaka

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

CIVIL PROJECT SOLUTIONS

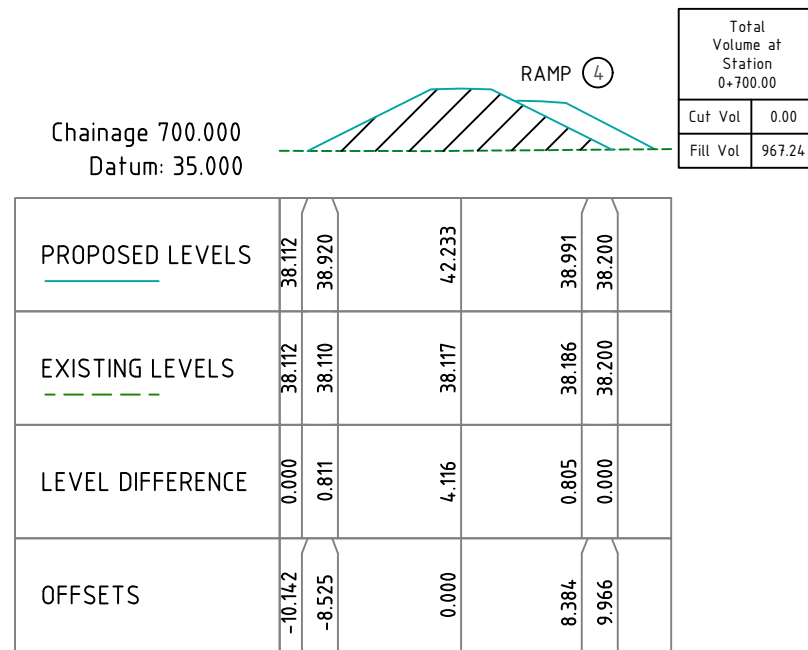
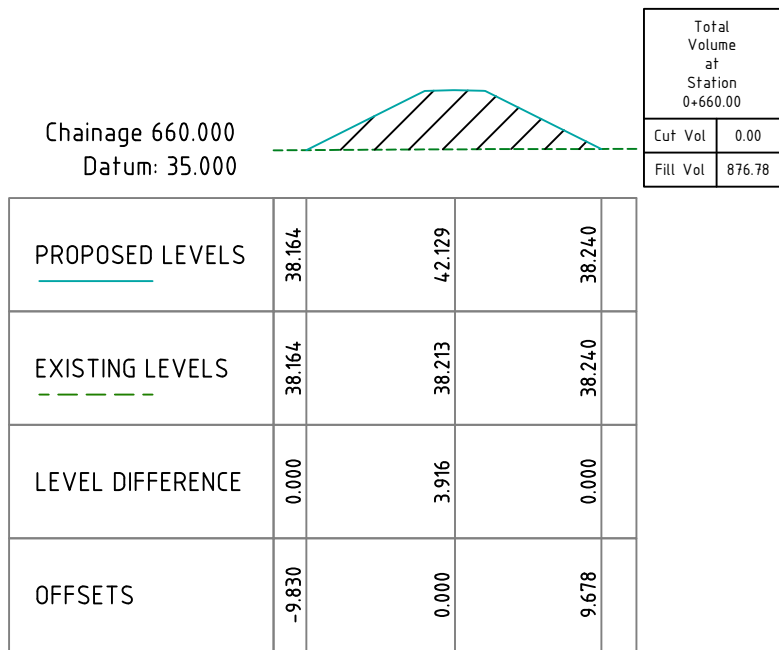
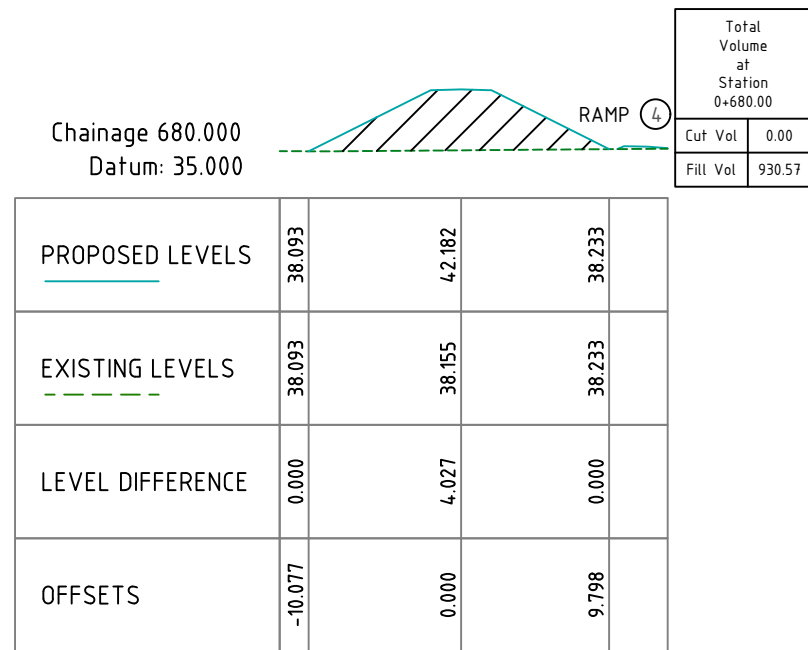
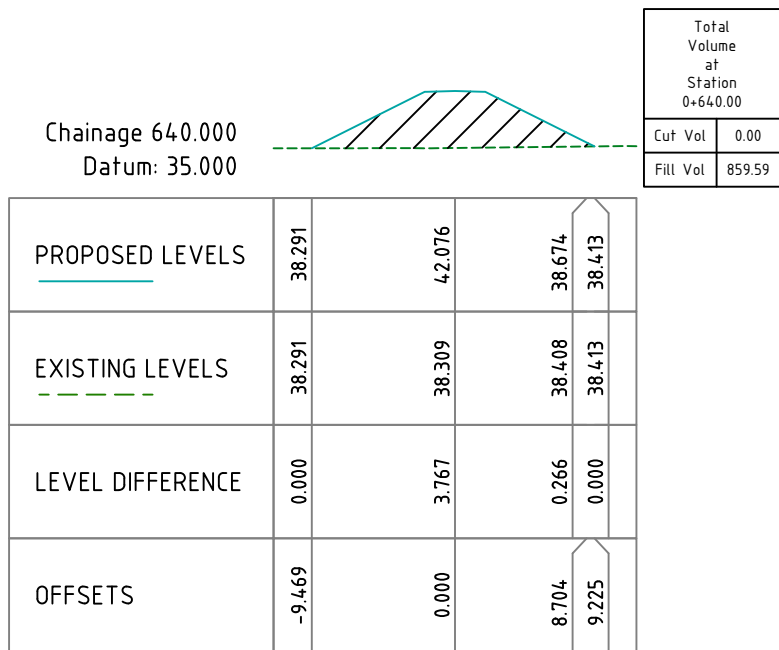
Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOA RIVER	Sheet 8
Date 05.06.2026	
Scale 1:500 @ A3	



General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate 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.FLAUGERE 06/2026

Checked by : D.FOOTE 06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

4m

2.5%

2.5%

EXISTING STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

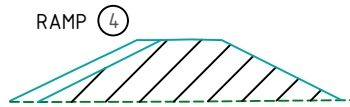
Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
9

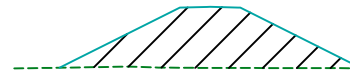
Chainage 720.000
Datum: 35.000



Total Volume at Station 0+720.00	
Cut Vol	0.00
Fill Vol	982.05

PROPOSED LEVELS	38.113		42.251		38.513	38.227
EXISTING LEVELS	38.113		38.136		38.222	38.227
LEVEL DIFFERENCE	0.000		4.115		0.291	0.000
OFFSETS	-10.176		0.000		9.375	9.949

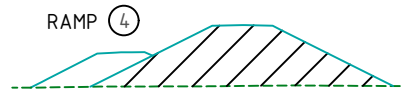
Chainage 760.000
Datum: 35.000



Total Volume at Station 0+760.00	
Cut Vol	0.00
Fill Vol	954.22

PROPOSED LEVELS	38.260	38.680	42.288	38.229
EXISTING LEVELS	38.260	38.274	38.248	38.229
LEVEL DIFFERENCE	0.000	0.406	4.039	0.000
OFFSETS	-9.955	-9.116	0.000	10.018

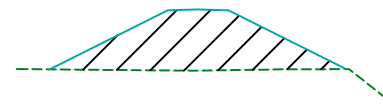
Chainage 740.000
Datum: 35.000



Total Volume at Station 0+740.00	
Cut Vol	0.00
Fill Vol	969.04

PROPOSED LEVELS	38.187	38.478	42.269	38.235
EXISTING LEVELS	38.187	38.197	38.241	38.235
LEVEL DIFFERENCE	0.000	0.282	4.028	0.000
OFFSETS	-10.064	-9.482	0.000	9.969

Chainage 780.000
Datum: 35.000

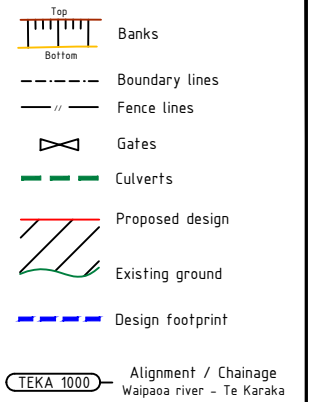


Total Volume at Station 0+780.00	
Cut Vol	0.00
Fill Vol	945.80

PROPOSED LEVELS	38.344	42.306	38.642	38.360
EXISTING LEVELS	38.344	38.265	38.358	38.360
LEVEL DIFFERENCE	0.000	4.041	0.284	0.000
OFFSETS	-9.824	0.000	9.228	9.792

General Notes

Keys

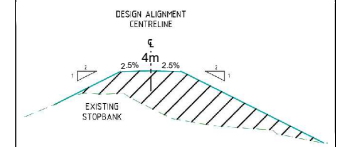


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

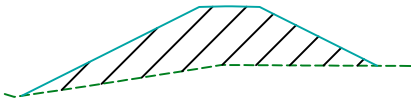
TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOA RIVER	Sheet 10
Date 05.06.2026	
Scale 1:500 @ A3	

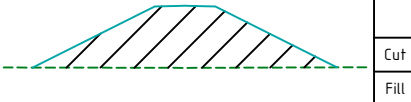
Chainage 800.000
Datum: 35.000



Total Volume at Station 0+800.00	
Cut Vol	0.00
Fill Vol	1032.47

PROPOSED LEVELS	36.404	39.053	42.324	38.388
EXISTING LEVELS	36.404	37.195	38.441	38.388
LEVEL DIFFERENCE	0.000	1.858	3.883	0.000
OFFSETS	-13.741	-8.443	0.000	9.773

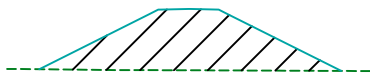
Chainage 840.000
Datum: 35.000



Total Volume at Station 0+840.00	
Cut Vol	0.00
Fill Vol	972.03

PROPOSED LEVELS	38.272	42.361	38.575	38.285
EXISTING LEVELS	38.272	38.252	38.283	38.285
LEVEL DIFFERENCE	0.000	4.109	0.293	0.000
OFFSETS	-10.078	0.000	9.471	10.052

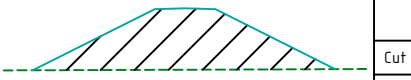
Chainage 820.000
Datum: 35.000



Total Volume at Station 0+820.00	
Cut Vol	0.00
Fill Vol	1029.39

PROPOSED LEVELS	38.354	42.343	38.242
EXISTING LEVELS	38.354	38.290	38.242
LEVEL DIFFERENCE	0.000	4.053	0.000
OFFSETS	-9.877	0.000	10.101

Chainage 860.000
Datum: 35.000



Total Volume at Station 0+860.00	
Cut Vol	0.00
Fill Vol	972.66

PROPOSED LEVELS	38.286	38.578	42.379	38.648	38.361
EXISTING LEVELS	38.286	38.288	38.321	38.359	38.361
LEVEL DIFFERENCE	0.000	0.290	4.058	0.289	0.000
OFFSETS	-10.086	-9.503	0.000	9.363	9.936

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

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

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW10/2025

Drawn by : P.FLAUGERE06/2026

Checked by : D.FOOTE06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

4m

2.5%

2.5%

EXISTING
STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

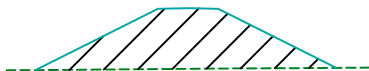
Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
11

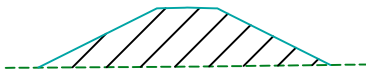
Chainage 880.000
Datum: 35.000



Total Volume at Station 0+880.00	
Cut Vol	0.00
Fill Vol	956.71

PROPOSED LEVELS	38.301		42.398		38.730	38.448
EXISTING LEVELS	38.301		38.388		38.443	38.448
LEVEL DIFFERENCE	0.000		4.010		0.286	0.000
OFFSETS	-10.093		0.000		9.236	9.799

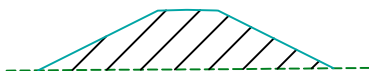
Chainage 920.000
Datum: 35.000



Total Volume at Station 0+920.00	
Cut Vol	0.00
Fill Vol	908.72

PROPOSED LEVELS	38.464		42.434		38.642	
EXISTING LEVELS	38.464		38.531		38.642	
LEVEL DIFFERENCE	0.000		3.903		0.000	
OFFSETS	-9.840		0.000		9.484	

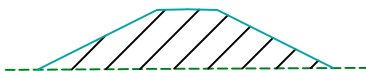
Chainage 900.000
Datum: 35.000



Total Volume at Station 0+900.00	
Cut Vol	0.00
Fill Vol	932.69

PROPOSED LEVELS	38.413	38.699		42.416		38.828	38.552
EXISTING LEVELS	38.413	38.418		38.476		38.548	38.552
LEVEL DIFFERENCE	0.000	0.281		3.940		0.280	0.000
OFFSETS	-9.905	-9.335		0.000		9.077	9.627

Chainage 940.000
Datum: 35.000



Total Volume at Station 0+940.00	
Cut Vol	0.00
Fill Vol	908.93

PROPOSED LEVELS	38.457	38.742		42.452		39.064	38.564
EXISTING LEVELS	38.457	38.461		38.519		38.559	38.564
LEVEL DIFFERENCE	0.000	0.281		3.933		0.504	0.000
OFFSETS	-9.891	-9.321		0.000		8.677	9.677

General Notes

Keys

Top

Bottom

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Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate 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.FLAUGERE 06/2026

Checked by : D.FOOTE 06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

4m

2.5%

2.5%

EXISTING
STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

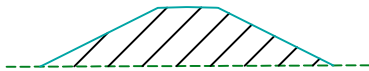
Date
05.06.2026

Scale
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Sheet

12

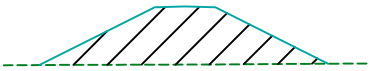
Chainage 960.000
Datum: 35.000



Total Volume at Station 0+960.00	
Cut Vol	0.00
Fill Vol	910.17

PROPOSED LEVELS	38.529	38.810	42.471	38.886	38.611
EXISTING LEVELS	38.529	38.532	38.571	38.608	38.611
LEVEL DIFFERENCE	0.000	0.278	3.900	0.277	0.000
OFFSETS	-9.783	-9.221	0.000	9.070	9.620

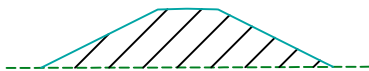
Chainage 1000.000
Datum: 35.000



Total Volume at Station 1+000.00	
Cut Vol	0.00
Fill Vol	886.83

PROPOSED LEVELS	38.636	38.912	42.507	38.993	38.723
EXISTING LEVELS	38.636	38.640	38.666	38.720	38.723
LEVEL DIFFERENCE	0.000	0.272	3.842	0.272	0.000
OFFSETS	-9.642	-9.090	0.000	8.929	9.468

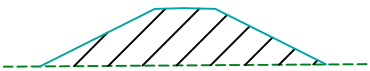
Chainage 980.000
Datum: 35.000



Total Volume at Station 0+980.00	
Cut Vol	0.00
Fill Vol	899.33

PROPOSED LEVELS	38.579	38.858	42.489	38.917	38.643
EXISTING LEVELS	38.579	38.581	38.605	38.640	38.643
LEVEL DIFFERENCE	0.000	0.277	3.885	0.276	0.000
OFFSETS	-9.720	-9.163	0.000	9.045	9.592

Chainage 1020.000
Datum: 35.000

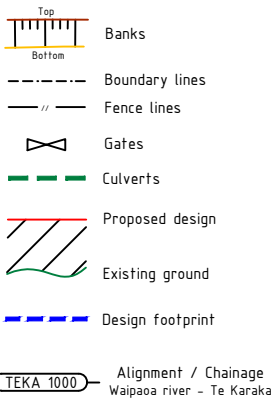


Total Volume at Station 1+020.00	
Cut Vol	0.00
Fill Vol	868.33

PROPOSED LEVELS	38.673	42.526	38.805
EXISTING LEVELS	38.673	38.741	38.805
LEVEL DIFFERENCE	0.000	3.785	0.000
OFFSETS	-9.606	0.000	9.341

General Notes

Keys

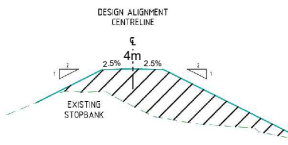


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

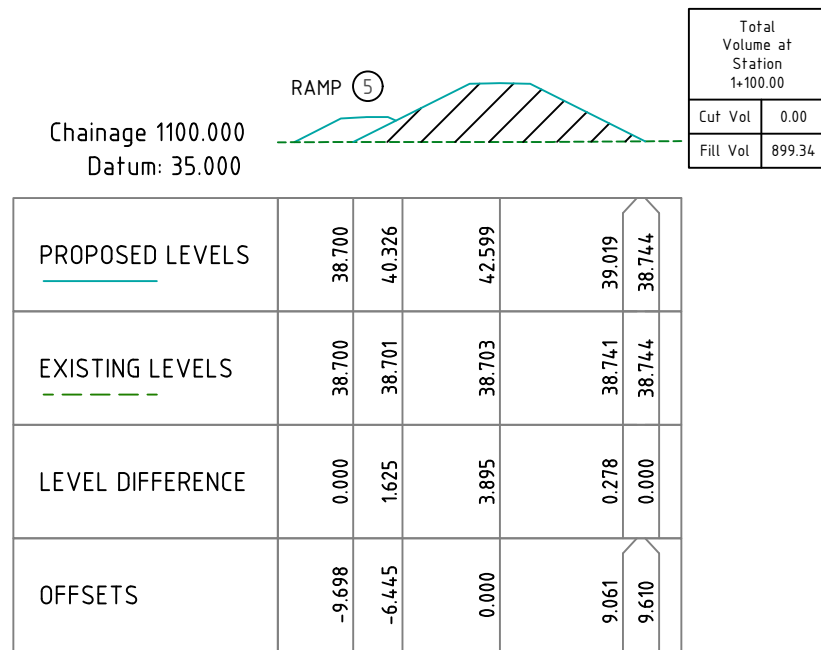
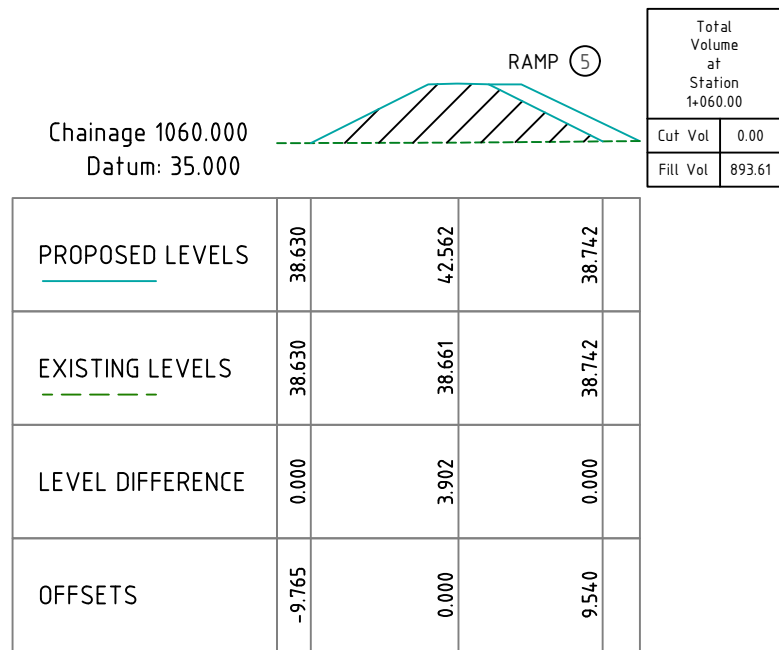
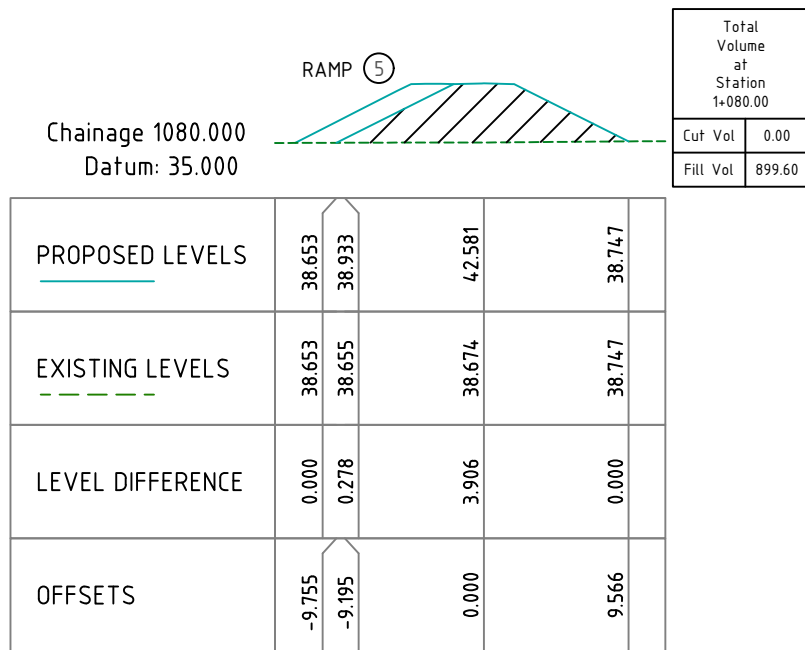
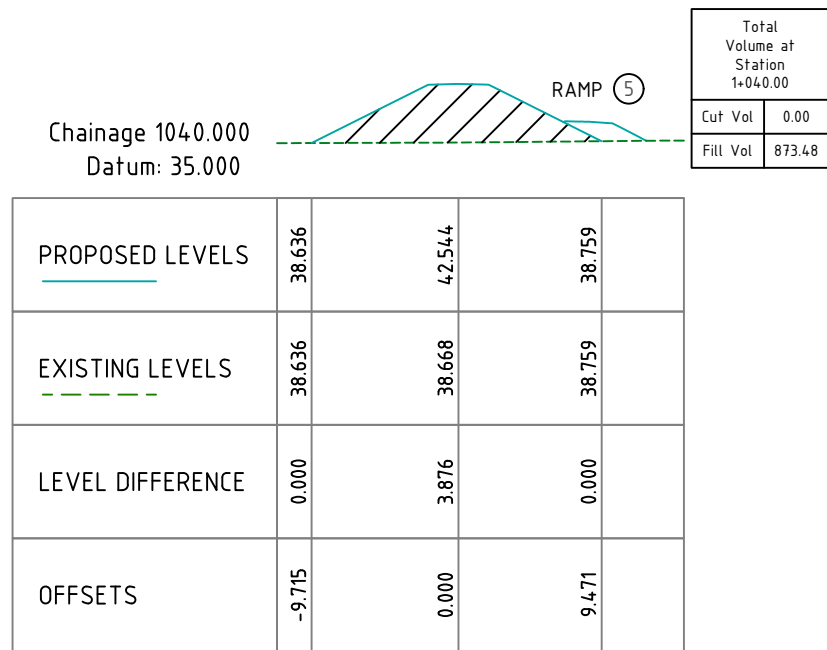
Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOA RIVER	Sheet
Date 05.06.2026	13
Scale 1:500 @ A3	



General Notes

Keys

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate 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.FLAUGERE 06/2026

Checked by : D.FOOTE 06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

Project Name and Address

Te Kaunihera o Te Tairāwhiti

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

Project

WAIPAOPA RIVER

Date

05.06.2026

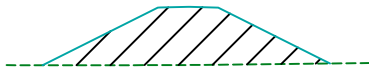
Scale

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Sheet

14

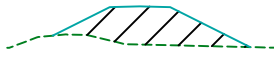
Chainage 1120.000
Datum: 35.000



Total Volume at Station 1+120.00	
Cut Vol	0.00
Fill Vol	886.97

PROPOSED LEVELS	38.759	39.034	42.617	39.138	38.870
EXISTING LEVELS	38.759	38.758	38.771	38.864	38.870
LEVEL DIFFERENCE	0.000	0.276	3.846	0.274	0.000
OFFSETS	-9.617	-9.066	0.000	8.858	9.394

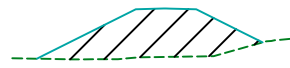
Chainage 1160.000
Datum: 35.000



Total Volume at Station 1+160.00	
Cut Vol	0.00
Fill Vol	508.37

PROPOSED LEVELS	40.712	40.853	42.650	40.505	39.954
EXISTING LEVELS	40.712	40.738	40.124	39.980	39.954
LEVEL DIFFERENCE	0.000	0.116	2.526	0.525	0.000
OFFSETS	-5.778	-5.494	0.000	6.187	7.290

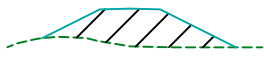
Chainage 1140.000
Datum: 35.000



Total Volume at Station 1+140.00	
Cut Vol	0.00
Fill Vol	745.45

PROPOSED LEVELS	39.345	39.531	42.635	41.019	40.391
EXISTING LEVELS	39.345	39.307	39.433	40.039	40.391
LEVEL DIFFERENCE	0.000	0.223	3.203	0.980	0.000
OFFSETS	-8.541	-8.110	0.000	5.134	6.388

Chainage 1180.000
Datum: 38.000



Total Volume at Station 1+180.00	
Cut Vol	0.00
Fill Vol	402.12

PROPOSED LEVELS	40.696	41.032	42.649	40.537	40.091
EXISTING LEVELS	40.696	40.754	40.157	40.092	40.091
LEVEL DIFFERENCE	0.000	0.278	2.492	0.445	0.000
OFFSETS	-5.807	-5.134	0.000	6.125	7.016

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

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Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate 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.FLAUGERE 06/2026

Checked by : D.FOOTE 06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

4m

2.5%

2.5%

EXISTING
STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

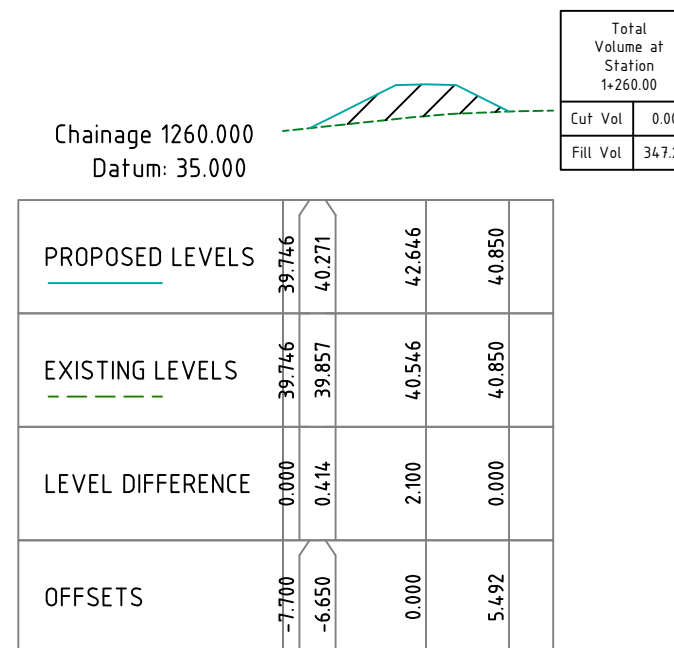
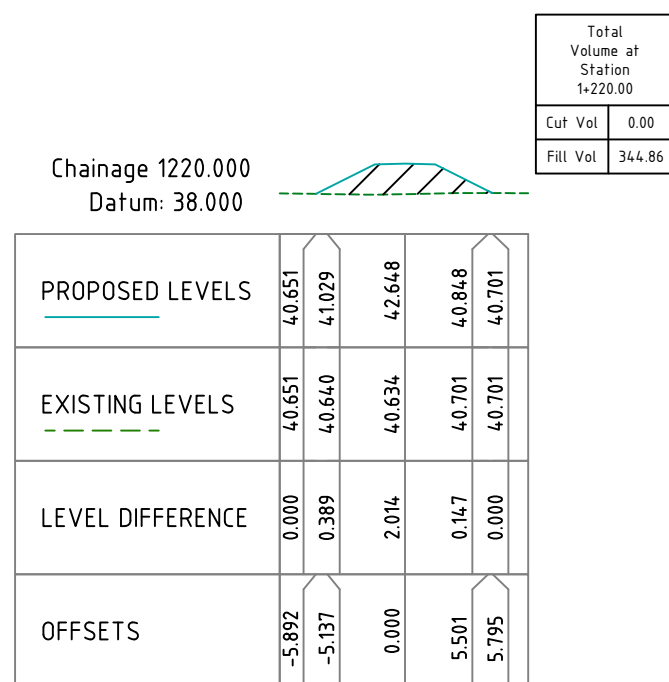
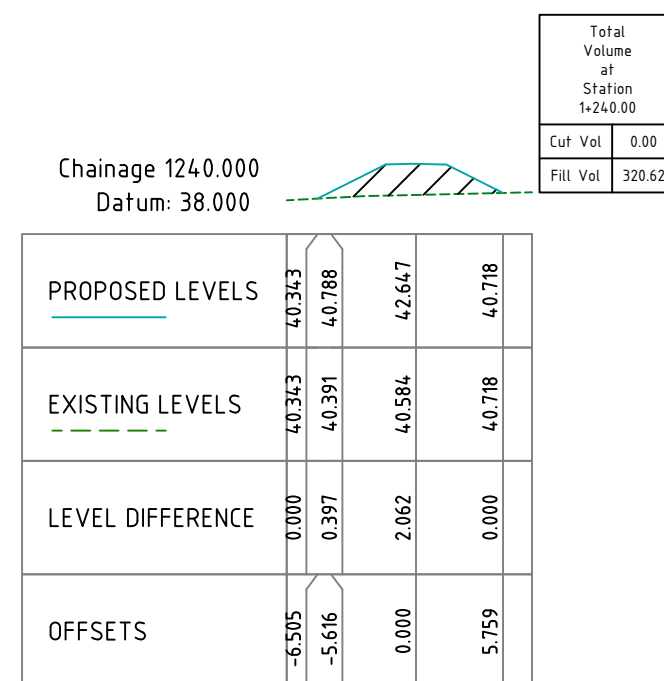
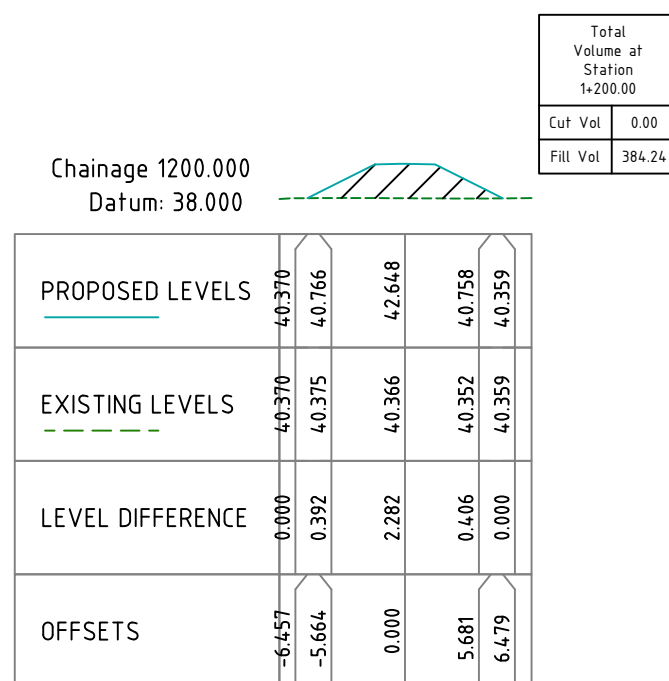
WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
EASTERN SIDE STOPBANK
CROSS SECTIONS

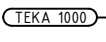
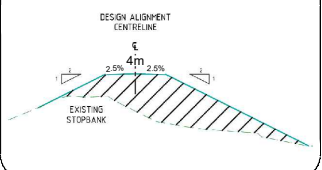
Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
15



General Notes		
Keys		
	Banks	
	Boundary lines	
	Fence lines	
	Gates	
	Culverts	
	Proposed design	
	Existing ground	
	Design footprint	
	Alignment / Chainage Waipaoa river - Te Karaka	
Coordinate 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.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026
TYPICAL CROSS SECTION 4m WIDE STOPBANK (TOP)		
		
 GISBORNE DISTRICT COUNCIL Te Kaunihera o Te Tairāwhiti  CPS Civil Project Solutions		
Project Name and Address		
WAIPAOA RIVER TE KARAKA - TOWNSHIP EASTERN SIDE STOPBANK CROSS SECTIONS		
Project WAIPAOA RIVER		Sheet
Date 05.06.2026		16
Scale 1:500 @ A3		

Chainage 1280.000
Datum: 40.000

PROPOSED LEVELS	41.090	42.645	41.732
EXISTING LEVELS	41.090	41.702	41.732
LEVEL DIFFERENCE	0.000	0.943	0.000
OFFSETS	-5.011	0.000	3.727



Total Volume at Station 1+280.00	
Cut Vol.	0.00
Fill Vol.	243.13

Chainage 1300.000
Datum: 40.000

PROPOSED LEVELS	43.029	42.645	43.055
EXISTING LEVELS	43.029	43.145	43.055
LEVEL DIFFERENCE	0.000	-0.500	0.000
OFFSETS	-2.869	0.000	2.921

DESIGN MERGING
INTO EXISTING



Total Volume at Station 1+300.00	
Cut Vol.	24.42
Fill Vol.	62.56

General Notes

Keys

-  Banks
-  Boundary lines
-  Fence lines
-  Gates
-  Culverts
-  Proposed design
-  Existing ground
-  Design footprint
-  Alignment / Chainage

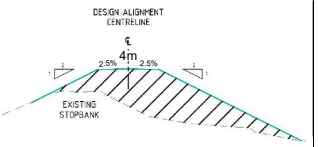
TEKA 1000 Waipaoa river - Te Karaka

Coordinate 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.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOPA RIVER	Sheet 17
Date 05.06.2026	
Scale 1:500 @ A3	

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
0+000.00	1.95	0.00	0.00
0+020.00	12.54	144.90	144.90
0+040.00	0.00	125.39	270.29
0+060.00	12.58	125.77	396.05
0+080.00	13.01	255.82	651.88
0+100.00	14.19	271.92	923.80
0+120.00	14.38	285.67	1209.47
0+140.00	14.24	286.14	1495.61
0+160.00	14.64	288.88	1784.49
0+180.00	10.41	250.42	2034.91
0+200.00	37.72	497.84	2532.75
0+220.00	37.39	761.99	3294.74
0+240.00	30.92	683.05	3977.79
0+260.00	37.78	687.00	4664.79
0+280.00	42.93	807.17	5471.97
0+300.00	35.74	786.78	6258.74
0+320.00	33.18	689.20	6947.94
0+340.00	38.23	696.62	7644.56
0+360.00	49.85	872.52	8517.08
0+380.00	60.77	1106.22	9623.30
0+400.00	51.45	1122.20	10745.50
0+420.00	46.52	979.69	11725.19
0+440.00	46.07	925.93	12651.12
0+460.00	46.01	920.82	13571.95
0+480.00	45.14	911.48	14483.43

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
0+500.00	48.15	932.86	15416.29
0+520.00	46.96	951.05	16367.34
0+540.00	46.93	938.93	17306.27
0+560.00	47.13	940.63	18246.89
0+580.00	46.16	932.87	19179.76
0+600.00	45.63	917.85	20097.61
0+620.00	43.73	893.53	20991.14
0+640.00	42.23	859.59	21850.73
0+660.00	45.45	876.78	22727.52
0+680.00	47.61	930.57	23658.09
0+700.00	49.11	967.24	24625.33
0+720.00	49.09	982.05	25607.38
0+740.00	47.81	969.04	26576.42
0+760.00	47.61	954.22	27530.63
0+780.00	46.97	945.80	28476.43
0+800.00	54.61	1032.47	29508.90
0+820.00	48.19	1029.39	30538.29
0+840.00	49.02	972.03	31510.32
0+860.00	48.25	972.66	32482.98
0+880.00	47.42	956.71	33439.69
0+900.00	45.85	932.69	34372.39
0+920.00	45.03	908.72	35281.11
0+940.00	45.87	908.93	36190.04
0+960.00	45.13	910.17	37100.22
0+980.00	44.80	899.33	37999.55

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
1+000.00	43.88	886.83	38886.38
1+020.00	42.95	868.33	39754.71
1+040.00	44.40	873.48	40628.20
1+060.00	44.96	893.61	41521.80
1+080.00	45.00	899.60	42421.40
1+100.00	44.94	899.34	43320.74
1+120.00	43.76	886.97	44207.71
1+140.00	30.89	745.45	44953.16
1+160.00	20.21	508.37	45461.53
1+180.00	19.42	402.12	45863.65
1+200.00	19.01	384.24	46247.89
1+220.00	15.47	344.86	46592.75
1+240.00	16.41	320.62	46913.37
1+260.00	18.02	347.27	47260.64
1+280.00	6.26	243.13	47503.78
1+300.00	0.00	62.56	47566.34
1+304.15	0.00	0.00	47566.34

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

⋈

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage

Waipaoa river - Te Karaka

Coordinate System in term of : NZTM 2000

Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW10/2025

Drawn by : P.FLAUGERE06/2026

Checked by : D.FOOTE06/2026

TYPICAL CROSS SECTION

4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT

CENTRELINE

4m

2.5%

2.5%

EXISTING STOPBANK

Project Name and Address

GISBORNE

DISTRICT COUNCIL

Te Kaunihera o Te Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER

TE KARAKA - TOWNSHIP

EASTERN SIDE STOPBANK

VOLUME REPORT

Project

WAIPAOA RIVER

Date

05.06.2026

Scale

1:500 @ A3

Sheet

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