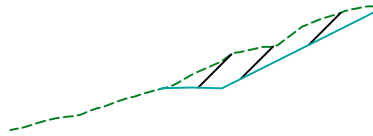


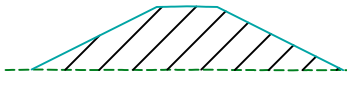
Chainage 1966.135
Datum: 40.000



Total Volume at Station 1+966.13	
Cut Vol	0.00
Fill Vol	0.00

PROPOSED LEVELS		44.084	44.201	48.888	49.151
EXISTING LEVELS		44.084	45.051	49.550	49.558
LEVEL DIFFERENCE		0.000	-0.850	-0.661	-0.407
OFFSETS		-2.133	0.000	11.476	12.000

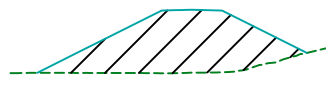
Chainage 2000.000
Datum: 38.000



Total Volume at Station 2+000.00	
Cut Vol	0.00
Fill Vol	969.33

PROPOSED LEVELS	40.080	40.990	44.267	42.524	40.045
EXISTING LEVELS	40.080	40.065	40.064	40.045	40.045
LEVEL DIFFERENCE	0.000	0.925	4.202	2.479	0.000
OFFSETS	-10.275	-8.454	0.000	5.385	10.342

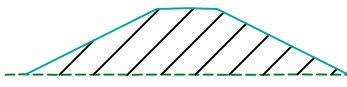
Chainage 1980.000
Datum: 38.000



Total Volume at Station 1+980.00	
Cut Vol	111.41
Fill Vol	315.91

PROPOSED LEVELS	40.063	42.142	44.228	42.478	41.378
EXISTING LEVELS	40.063	40.051	40.067	40.726	41.378
LEVEL DIFFERENCE	0.000	2.092	4.161	1.752	0.000
OFFSETS	-10.229	-6.071	0.000	5.400	7.600

Chainage 2020.000
Datum: 35.000



Total Volume at Station 2+020.00	
Cut Vol	0.00
Fill Vol	1065.25

PROPOSED LEVELS	39.933	40.985	44.306	39.913
EXISTING LEVELS	39.933	39.902	39.917	39.913
LEVEL DIFFERENCE	0.000	1.082	4.389	0.000
OFFSETS	-10.647	-8.544	0.000	10.685

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

2.0%

4m

2.0%

EXISTING STOPBANK

Project Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

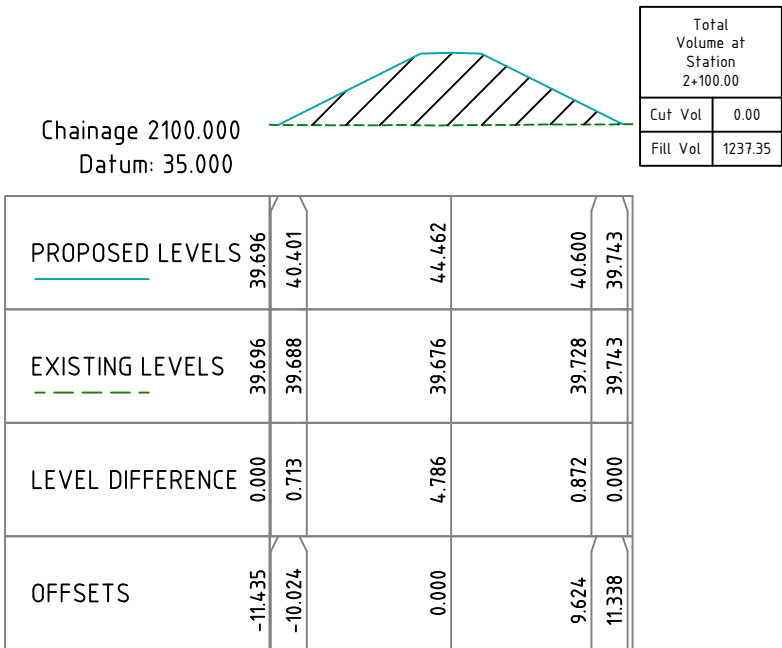
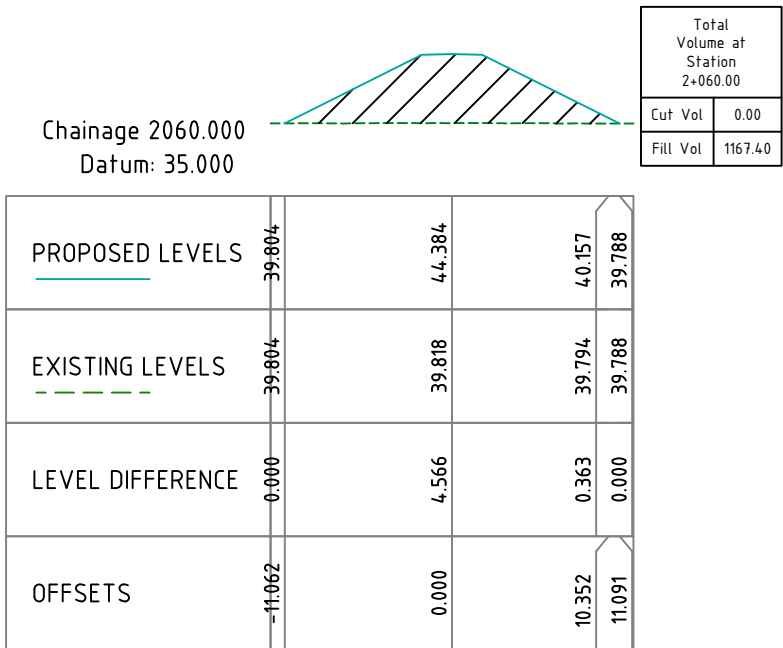
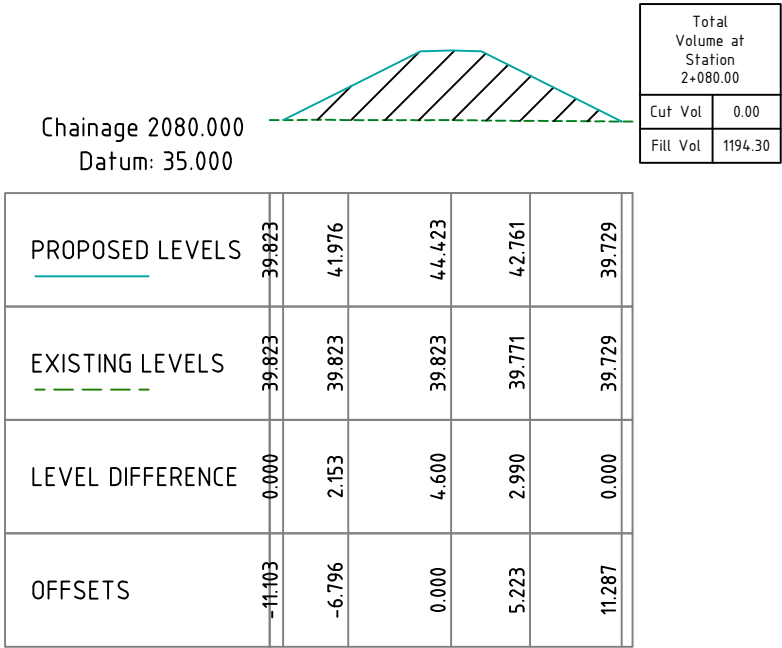
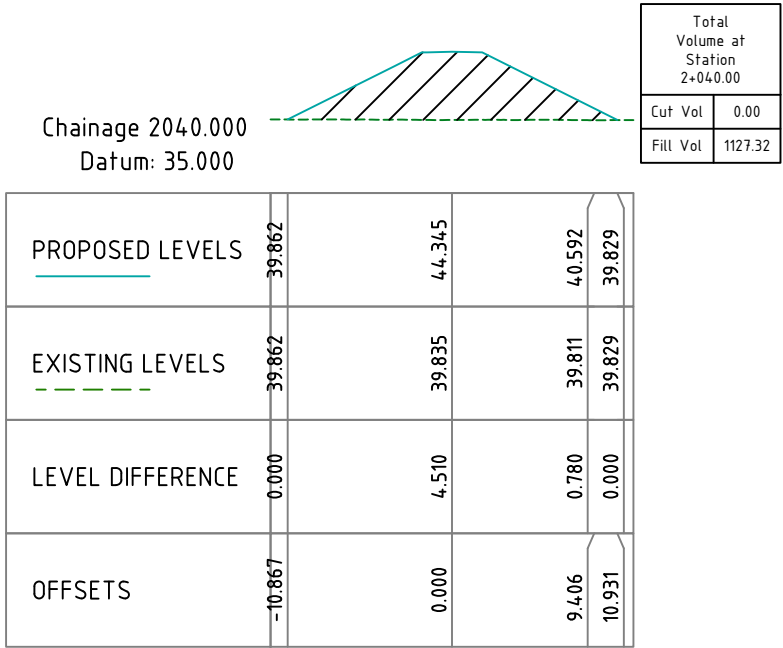
WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
1



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

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

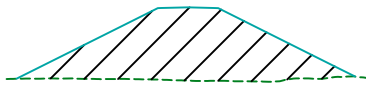
Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
2

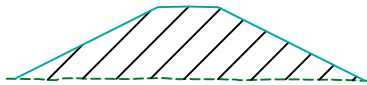
Chainage 2120.000
Datum: 35.000



Total Volume at Station 2+120.00	
Cut Vol	0.00
Fill Vol	1269.24

PROPOSED LEVELS	39.779	44.502	40.538	39.927
EXISTING LEVELS	39.779	39.657	39.900	39.927
LEVEL DIFFERENCE	0.000	4.844	0.637	0.000
OFFSETS	-11.347	0.000	9.826	11.047

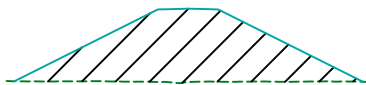
Chainage 2160.000
Datum: 35.000



Total Volume at Station 2+160.00	
Cut Vol	0.00
Fill Vol	1291.61

PROPOSED LEVELS	39.775	39.996	44.556	40.194	39.648
EXISTING LEVELS	39.775	39.771	39.757	39.689	39.648
LEVEL DIFFERENCE	0.000	0.225	4.799	0.504	0.000
OFFSETS	-11.465	-11.022	0.000	10.624	11.716

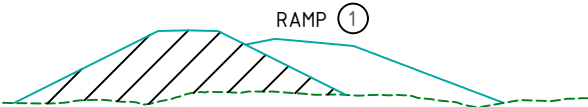
Chainage 2140.000
Datum: 35.000



Total Volume at Station 2+140.00	
Cut Vol	0.00
Fill Vol	1281.98

PROPOSED LEVELS	39.742	44.541	41.680	39.712
EXISTING LEVELS	39.742	39.698	39.719	39.712
LEVEL DIFFERENCE	0.000	4.843	1.961	0.000
OFFSETS	-11.500	0.000	7.620	11.555

Chainage 2180.000
Datum: 35.000



Total Volume at Station 2+180.00	
Cut Vol	0.00
Fill Vol	1202.75

PROPOSED LEVELS	39.751	40.278	44.564	41.543	40.295
EXISTING LEVELS	39.751	39.744	40.373	40.342	40.295
LEVEL DIFFERENCE	0.000	0.533	4.191	1.201	0.000
OFFSETS	-11.526	-10.473	0.000	7.941	10.438

General Notes

Keys

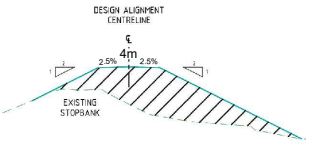
- Banks
- Boundary lines
- Fence lines
- Gates
- Culverts
- Proposed design
- Existing ground
- Design footprint
- Alignment / Chainage
Waipaoa river - Te Karaka

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

CIVIL PROJECT SOLUTIONS

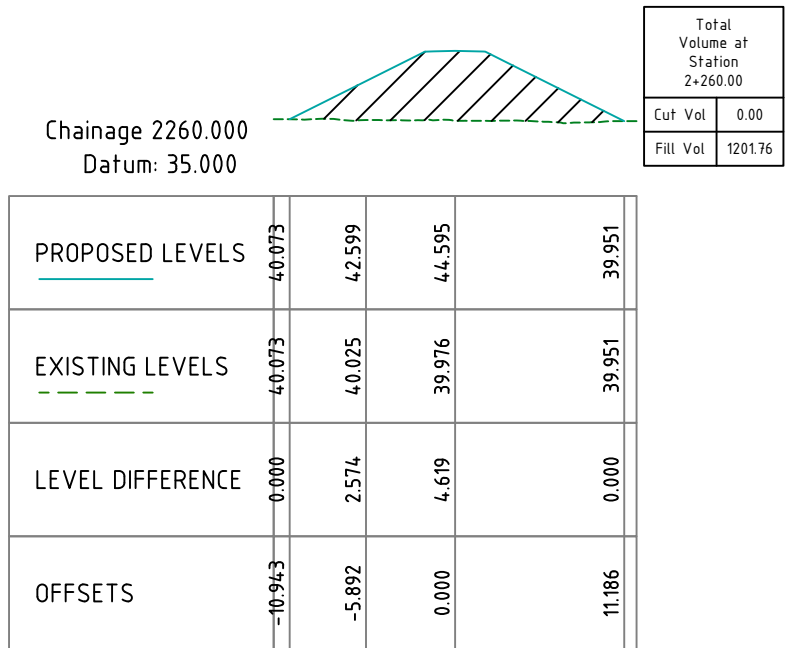
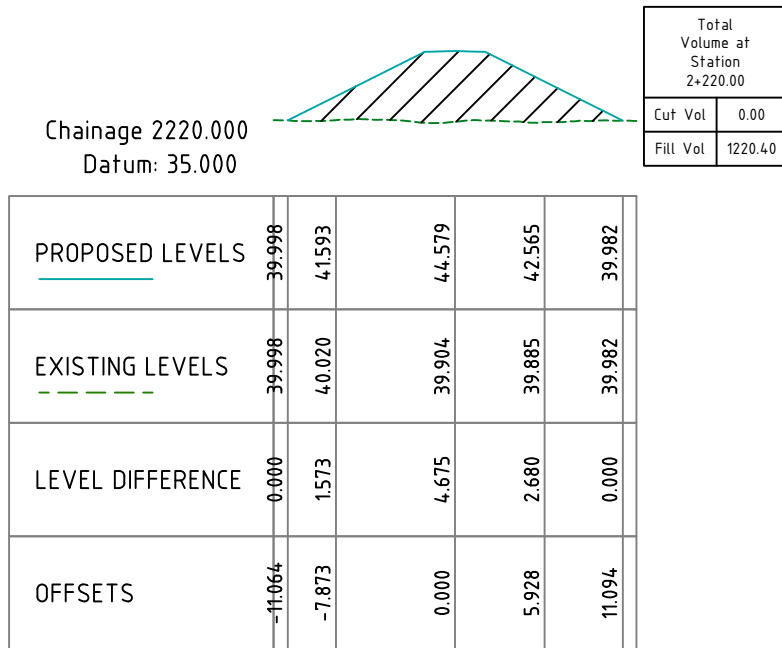
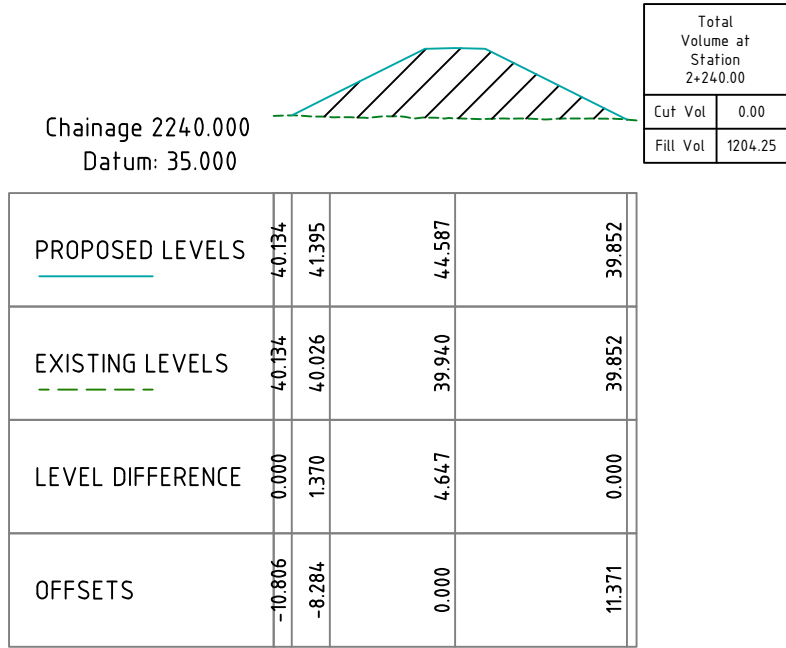
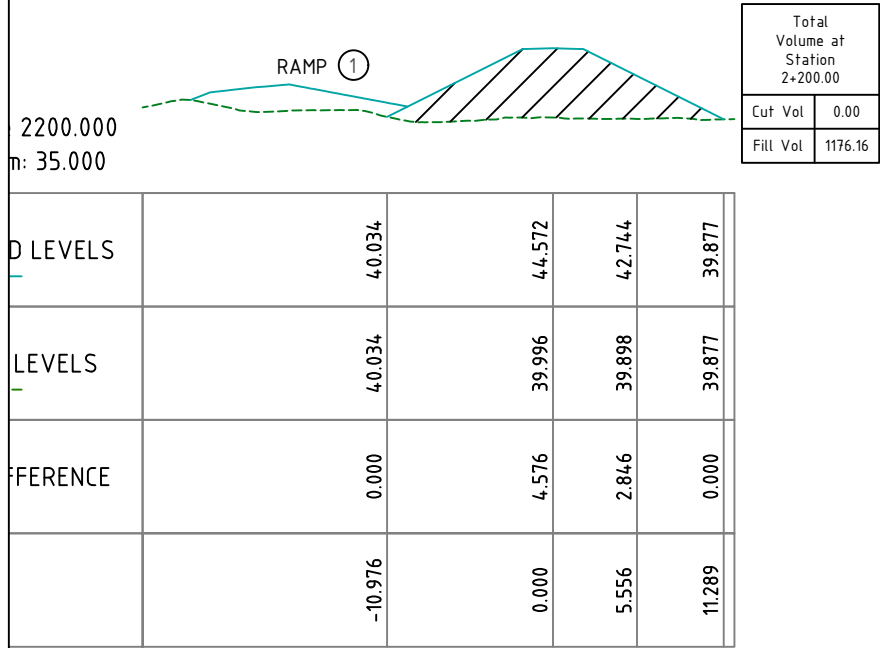
Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOPA RIVER	Sheet
Date 05.06.2026	3
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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

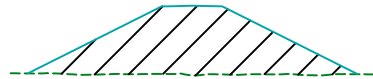
Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
4

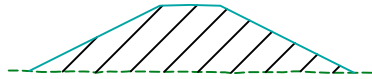
Chainage 2360.000
Datum: 38.000



Total Volume at Station 2+360.00	
Cut Vol	0.00
Fill Vol	1157.75

PROPOSED LEVELS	40.153	41.522	44.636	40.107
EXISTING LEVELS	40.153	40.104	40.016	40.107
LEVEL DIFFERENCE	0.000	1.418	4.620	0.000
OFFSETS	-10.865	-8.127	0.000	10.957

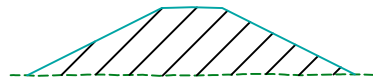
Chainage 2400.000
Datum: 38.000



Total Volume at Station 2+400.00	
Cut Vol	0.00
Fill Vol	1128.37

PROPOSED LEVELS	40.312	41.581	44.681	42.140	40.203
EXISTING LEVELS	40.312	40.283	40.266	40.298	40.203
LEVEL DIFFERENCE	0.000	1.298	4.415	1.842	0.000
OFFSETS	-10.638	-8.100	0.000	6.981	10.856

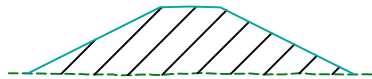
Chainage 2380.000
Datum: 38.000



Total Volume at Station 2+380.00	
Cut Vol	0.00
Fill Vol	1152.32

PROPOSED LEVELS	40.155	41.903	44.658	41.921	40.221
EXISTING LEVELS	40.155	40.178	40.152	40.170	40.221
LEVEL DIFFERENCE	0.000	1.725	4.507	1.752	0.000
OFFSETS	-10.906	-7.412	0.000	7.374	10.775

Chainage 2420.000
Datum: 38.000



Total Volume at Station 2+420.00	
Cut Vol	0.00
Fill Vol	1126.57

PROPOSED LEVELS	40.286	41.213	44.703	42.086	40.218
EXISTING LEVELS	40.286	40.259	40.274	40.286	40.218
LEVEL DIFFERENCE	0.000	0.954	4.429	1.800	0.000
OFFSETS	-10.735	-8.880	0.000	7.136	10.870

General Notes

Keys

Top

Bottom

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

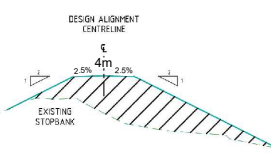
06/2026

Checked by : D.FOOTE

06/2026

TYPICAL CROSS SECTION

4m WIDE STOPBANK (TOP)



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

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOA RIVER

Date

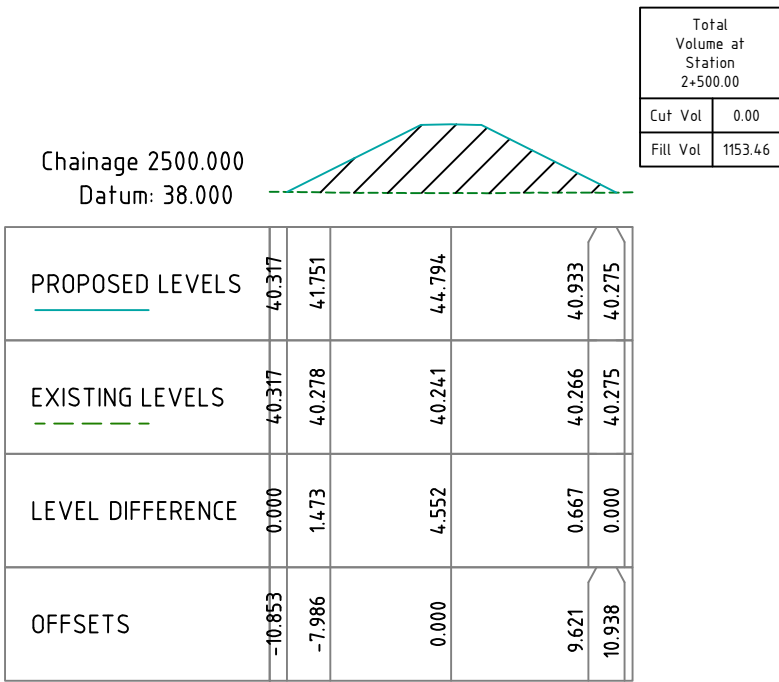
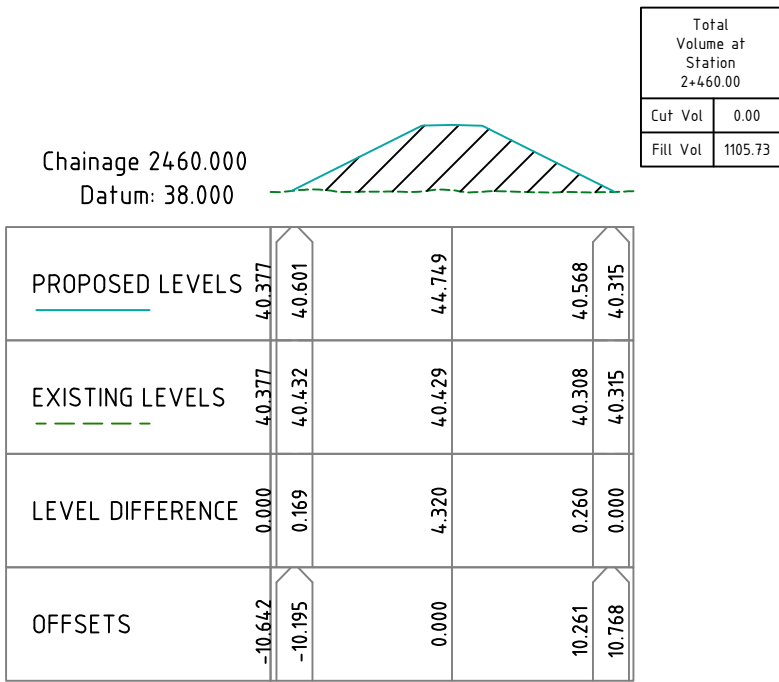
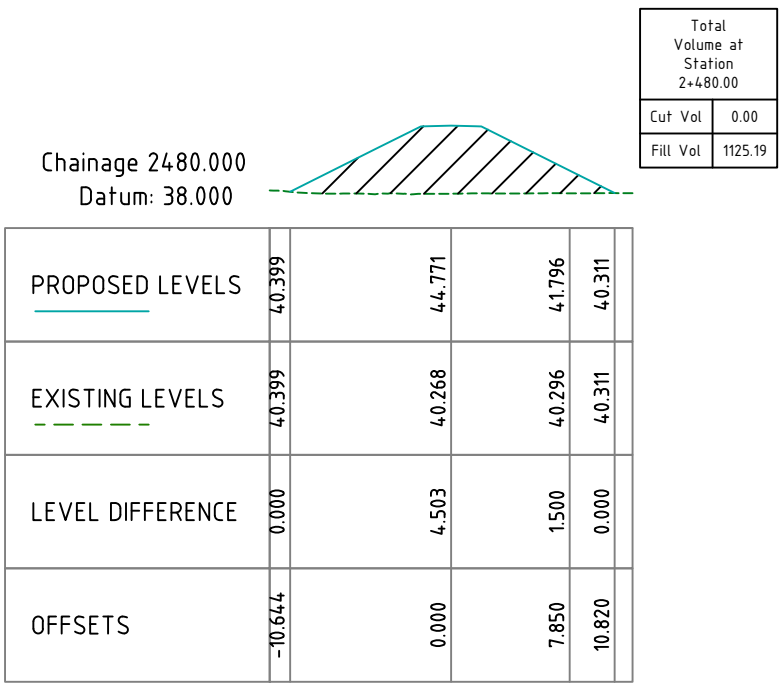
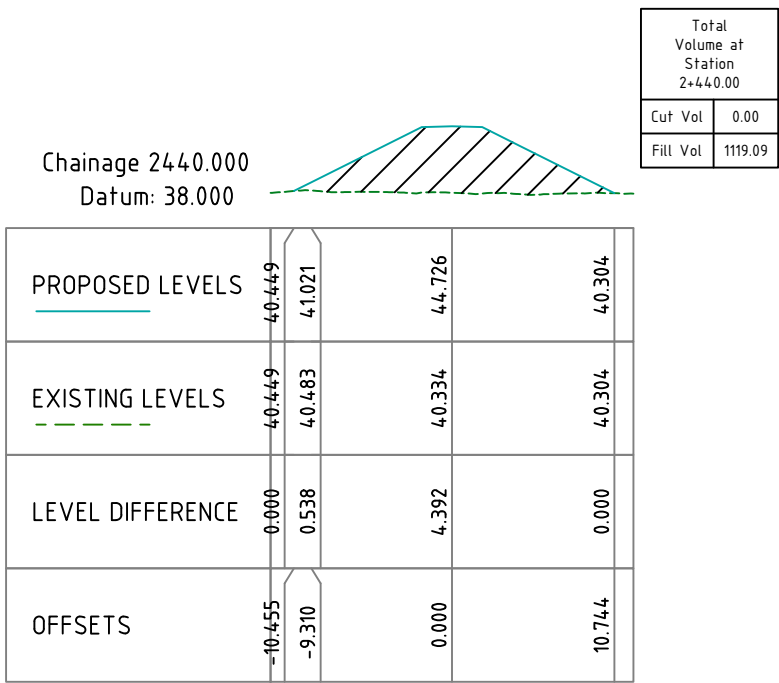
05.06.2026

Scale

1:500 @ A3

Sheet

6



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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOA RIVER

Date

05.06.2026

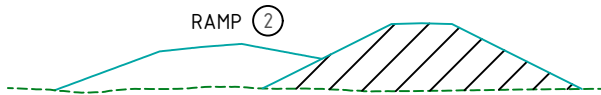
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Sheet

7

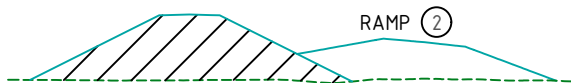
Chainage 2520.000
Datum: 38.000



Total Volume at Station 2+520.00	
Cut Vol	0.00
Fill Vol	1136.63

PROPOSED LEVELS		40.506	40.893		44.816	42.875	40.469
EXISTING LEVELS		40.506	40.488		40.339	40.424	40.469
LEVEL DIFFERENCE		0.000	0.405		4.477	2.452	0.000
OFFSETS		-10.521	-9.746		0.000	5.782	10.593

Chainage 2540.000
Datum: 38.000



Total Volume at Station 2+540.00	
Cut Vol	0.00
Fill Vol	1099.49

PROPOSED LEVELS	40.519		44.839	42.722	40.406	
EXISTING LEVELS	40.519		40.492	40.524	40.406	
LEVEL DIFFERENCE	0.000		4.346	2.198	0.000	
OFFSETS	-10.540		0.000	6.133	10.766	

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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

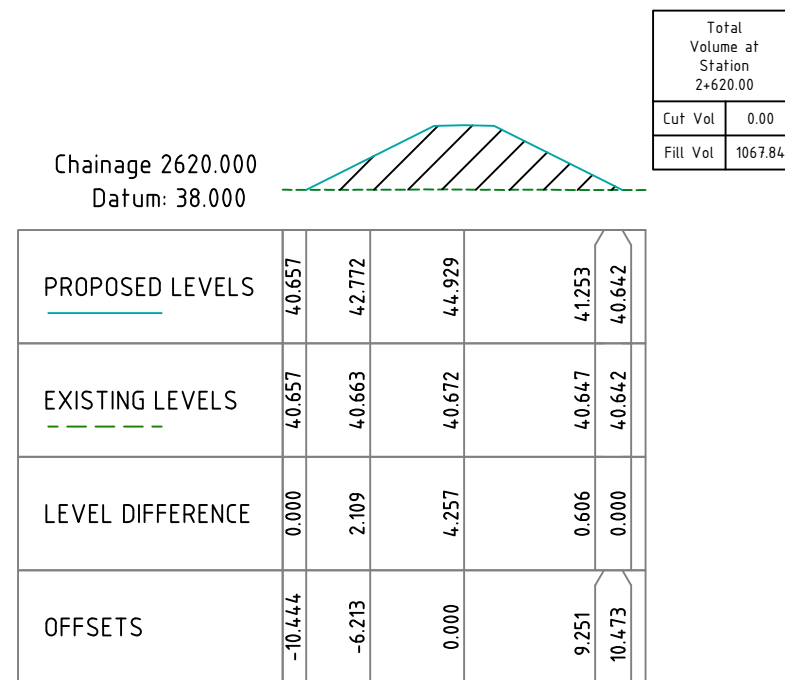
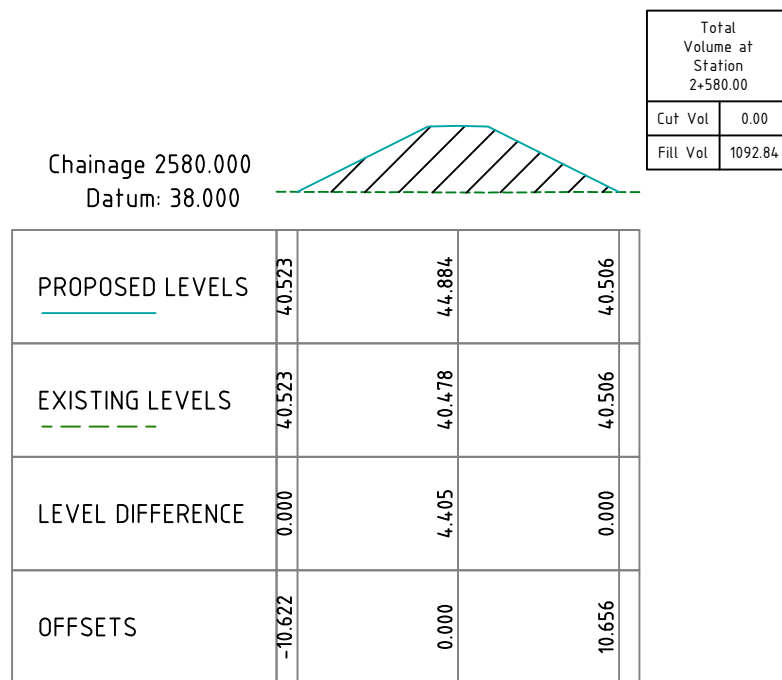
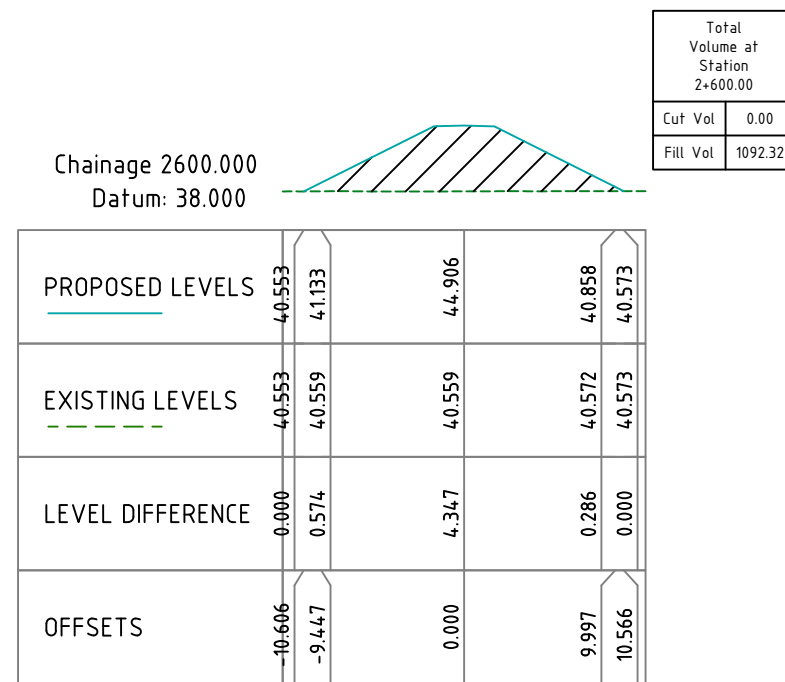
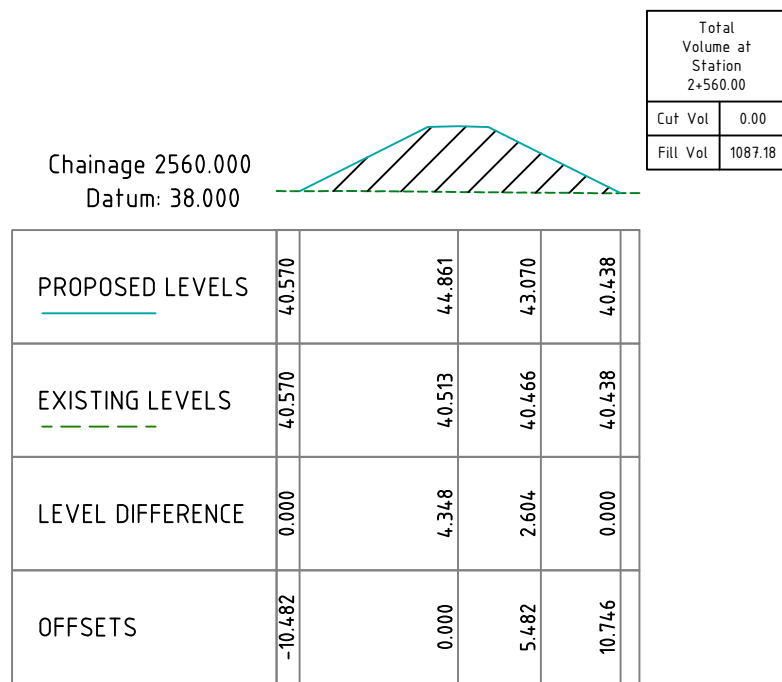
WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

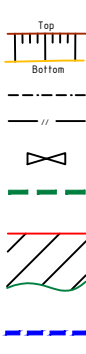
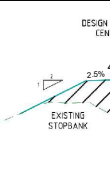
Project
WAIPAOPA RIVER

Date
05.06.2026

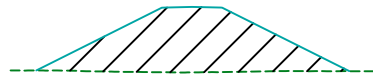
Scale
1:500 @ A3

Sheet
8



General Notes		
Keys  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)		
		
Firm Name and Address  GISBORNE DISTRICT COUNCIL Te Kaunihera o Te Taiāwhiti  CPS Civil Project Solutions		
Project Name and Address WAIPAO A RIVER TE KARAKA - TOWNSHIP WESTERN SIDE STOPBANK CROSS SECTIONS		
Project WAIPAO A RIVER		9
Date 05.06.2026		
Scale 1:500 @ A3		

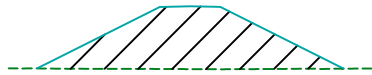
Chainage 2640.000
Datum: 38.000



Total Volume at Station 2+640.00	
Cut Vol	0.00
Fill Vol	1052.45

PROPOSED LEVELS	40.753	43.208	44.951	40.918	40.703
EXISTING LEVELS	40.753	40.675	40.620	40.704	40.703
LEVEL DIFFERENCE	0.000	2.532	4.331	0.214	0.000
OFFSETS	-10.297	-5.387	0.000	9.967	10.398

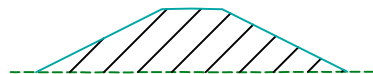
Chainage 2680.000
Datum: 38.000



Total Volume at Station 2+680.00	
Cut Vol	0.00
Fill Vol	1013.52

PROPOSED LEVELS	40.885	41.219	44.996	42.348	40.867
EXISTING LEVELS	40.885	40.872	40.835	40.860	40.867
LEVEL DIFFERENCE	0.000	0.348	4.162	1.488	0.000
OFFSETS	-10.124	-9.455	0.000	7.197	10.160

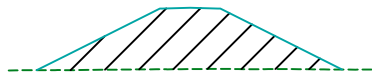
Chainage 2660.000
Datum: 38.000



Total Volume at Station 2+660.00	
Cut Vol	0.00
Fill Vol	1039.60

PROPOSED LEVELS	40.762	44.974	40.788
EXISTING LEVELS	40.762	40.769	40.788
LEVEL DIFFERENCE	0.000	4.205	0.000
OFFSETS	-10.323	0.000	10.272

Chainage 2700.000
Datum: 38.000



Total Volume at Station 2+700.00	
Cut Vol	0.00
Fill Vol	985.84

PROPOSED LEVELS	40.899	41.800	45.019	40.939
EXISTING LEVELS	40.899	40.900	40.965	40.939
LEVEL DIFFERENCE	0.000	0.899	4.054	0.000
OFFSETS	-10.140	-8.339	0.000	10.060

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

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

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOA RIVER

Date

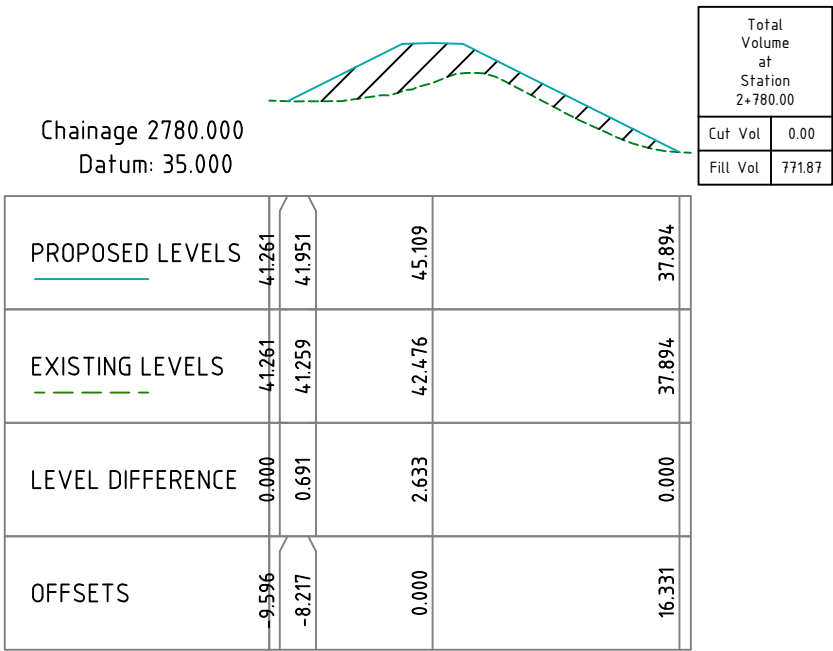
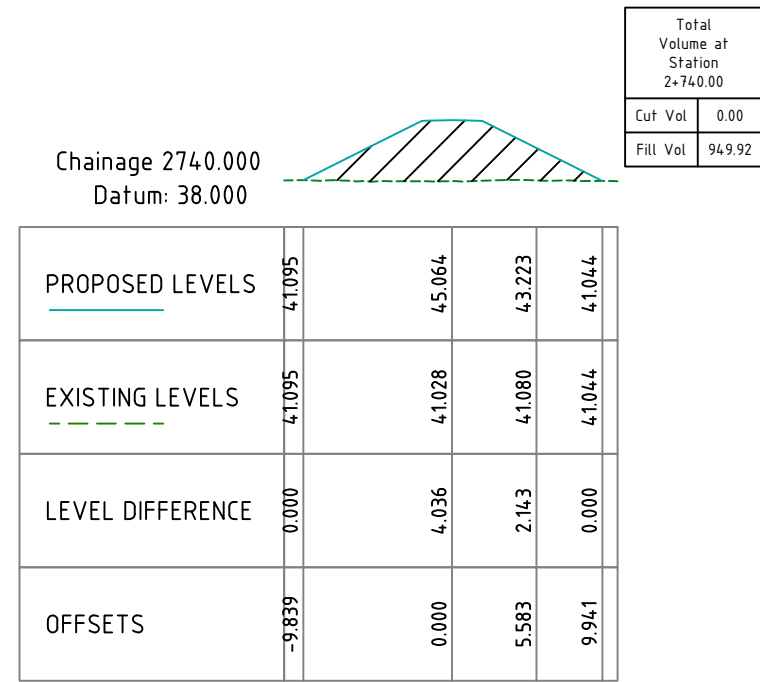
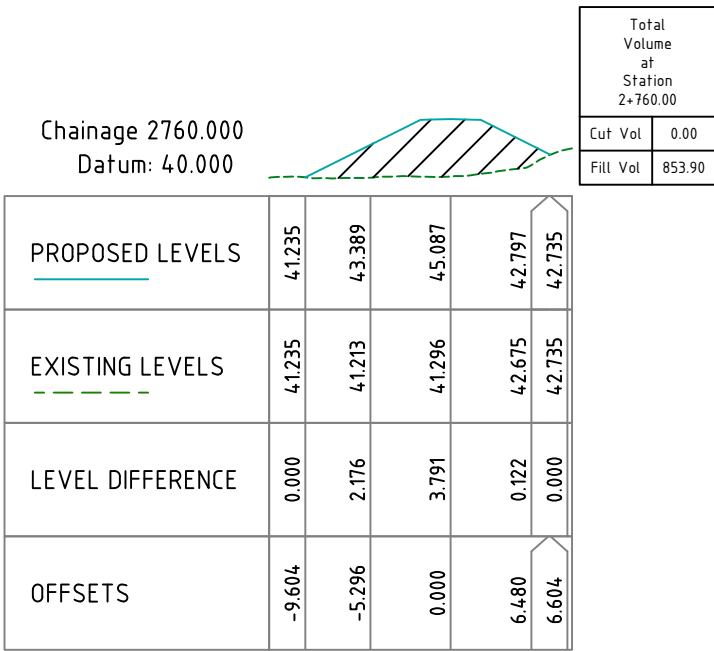
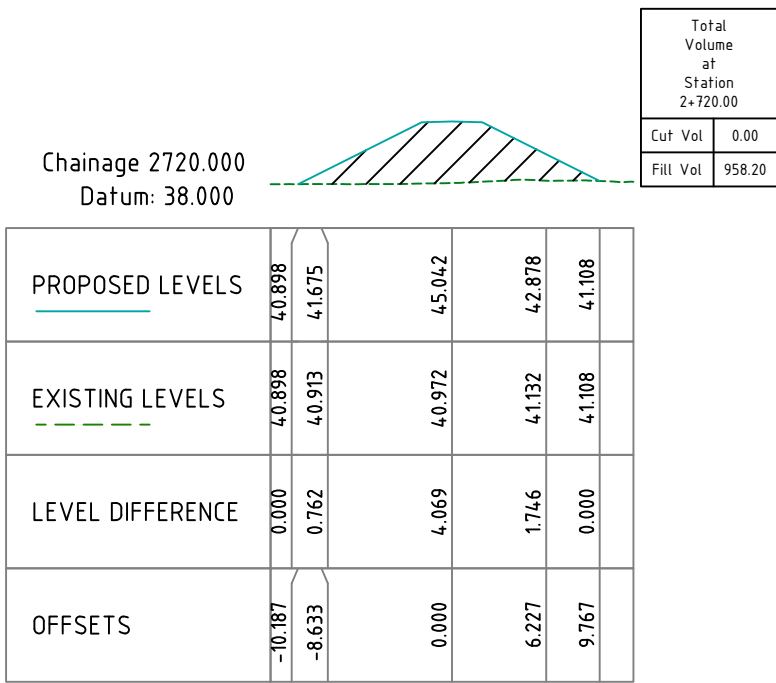
05.06.2026

Scale

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Sheet

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General Notes

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⋈

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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

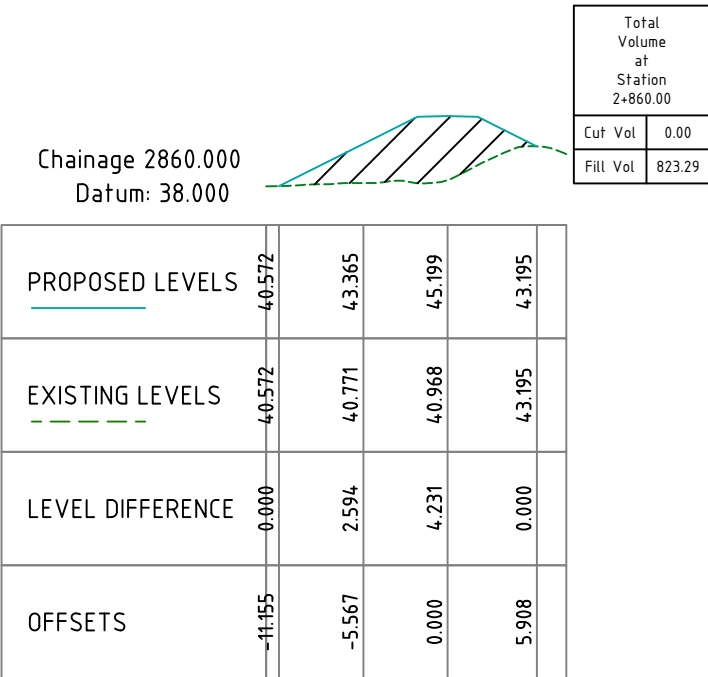
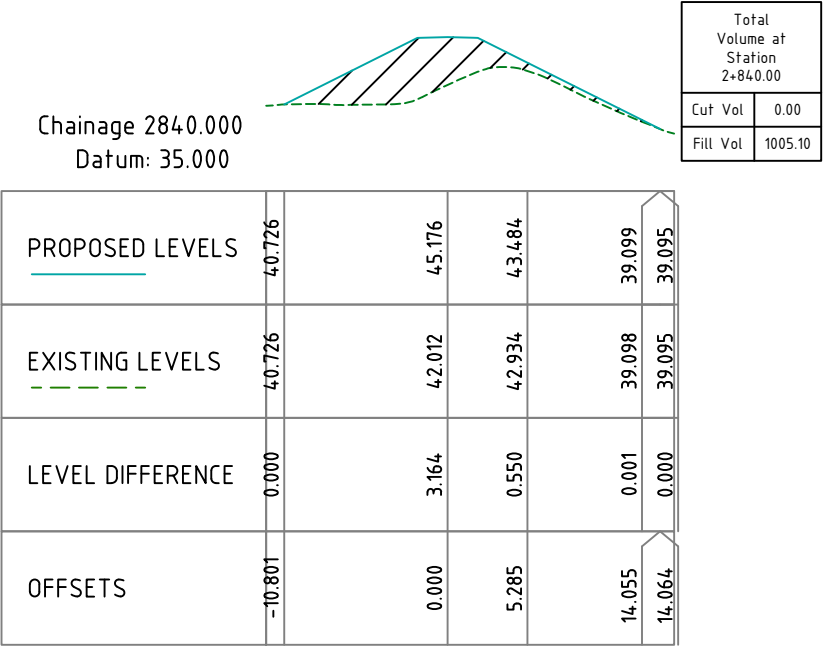
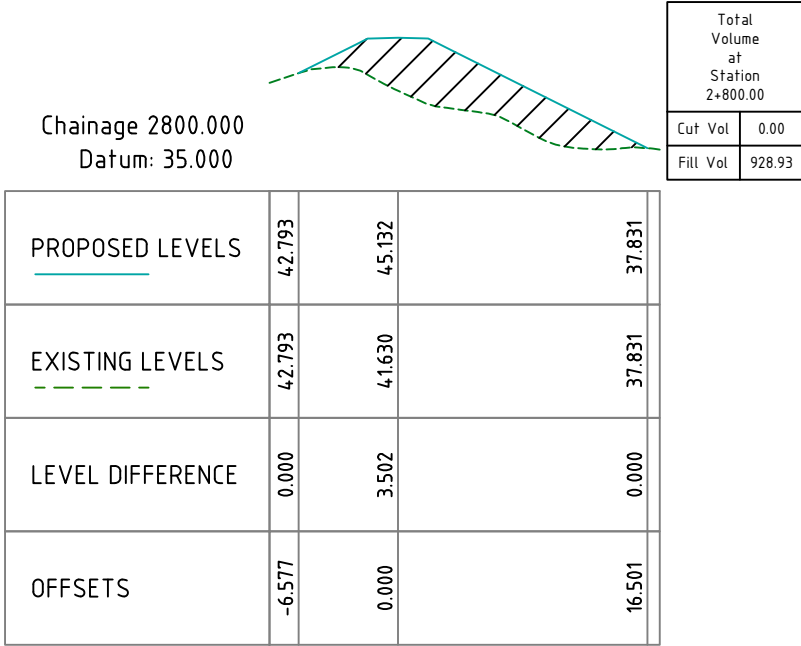
WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

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General Notes

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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
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

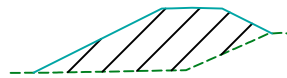
Date
05.06.2026

Scale
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Sheet

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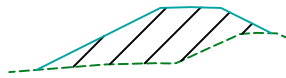
Chainage 2880.000
Datum: 38.000



Total Volume at Station 2+880.00	
Cut Vol	0.00
Fill Vol	784.48

PROPOSED LEVELS	40.926		45.221	43.527
EXISTING LEVELS	40.926		41.276	43.527
LEVEL DIFFERENCE	0.000		3.946	0.000
OFFSETS	-10.491	0.000	5.289	

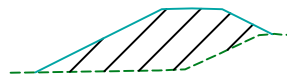
Chainage 2920.000
Datum: 38.000



Total Volume at Station 2+920.00	
Cut Vol	0.00
Fill Vol	659.82

PROPOSED LEVELS	41.114	43.589	45.266	43.540
EXISTING LEVELS	41.114	41.489	42.002	43.540
LEVEL DIFFERENCE	0.000	2.101	3.264	0.000
OFFSETS	-10.204	-5.254	0.000	5.351

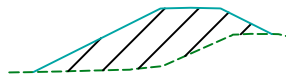
Chainage 2900.000
Datum: 38.000



Total Volume at Station 2+900.00	
Cut Vol	0.00
Fill Vol	733.47

PROPOSED LEVELS	41.013	42.131	45.244	43.546
EXISTING LEVELS	41.013	41.049	41.420	43.546
LEVEL DIFFERENCE	0.000	1.081	3.824	0.000
OFFSETS	-10.361	-8.127	0.000	5.296

Chainage 2940.000
Datum: 38.000



Total Volume at Station 2+940.00	
Cut Vol	0.00
Fill Vol	637.05

PROPOSED LEVELS	41.037	41.314	45.289	43.577	43.546
EXISTING LEVELS	41.037	41.046	42.254	43.547	43.546
LEVEL DIFFERENCE	0.000	0.268	3.034	0.030	0.000
OFFSETS	-10.402	-9.849	0.000	5.323	5.385

General Notes

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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 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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

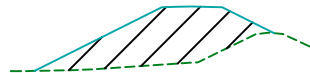
Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
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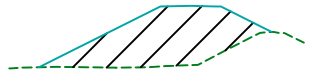
Chainage 2960.000
Datum: 38.000



Total Volume at Station 2+960.00	
Cut Vol	0.00
Fill Vol	678.64

PROPOSED LEVELS	41.050	43.099	45.311	43.541
EXISTING LEVELS	41.050	41.174	41.599	43.541
LEVEL DIFFERENCE	0.000	1.925	3.712	0.000
OFFSETS	-10.425	-6.329	0.000	5.438

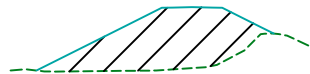
Chainage 3000.000
Datum: 38.000



Total Volume at Station 3+000.00	
Cut Vol	0.00
Fill Vol	745.50

PROPOSED LEVELS	41.292	41.879	45.356	43.624
EXISTING LEVELS	41.292	41.315	41.433	43.624
LEVEL DIFFERENCE	0.000	0.565	3.923	0.000
OFFSETS	-10.028	-8.853	0.000	5.365

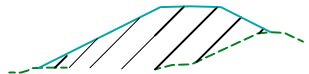
Chainage 2980.000
Datum: 38.000



Total Volume at Station 2+980.00	
Cut Vol	0.00
Fill Vol	735.90

PROPOSED LEVELS	41.137	45.333	43.582
EXISTING LEVELS	41.137	41.295	43.582
LEVEL DIFFERENCE	0.000	4.038	0.000
OFFSETS	-10.292	0.000	5.403

Chainage 3020.000
Datum: 38.000



Total Volume at Station 3+020.00	
Cut Vol	0.00
Fill Vol	569.12

PROPOSED LEVELS	41.311	41.314	45.378	43.673
EXISTING LEVELS	41.311	41.311	41.550	43.673
LEVEL DIFFERENCE	0.000	0.003	3.828	0.000
OFFSETS	-10.034	-10.028	0.000	5.310

General Notes

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Top

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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 Taiāwhiti

CPS
Civil Project Solutions

Project Name and Address

WAIPAPOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

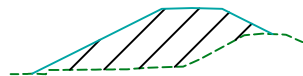
Project
WAIPAPOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

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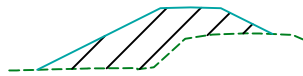
Chainage 3040.000
Datum: 38.000



Total Volume at Station 3+040.00	
Cut Vol	0.00
Fill Vol	537.64

PROPOSED LEVELS	41.063	42.521	45.401	43.683
EXISTING LEVELS	41.063	41.323	41.789	43.683
LEVEL DIFFERENCE	0.000	1.198	3.611	0.000
OFFSETS	-10.576	-7.660	0.000	5.333

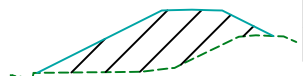
Chainage 3080.000
Datum: 38.000



Total Volume at Station 3+080.00	
Cut Vol	0.00
Fill Vol	619.75

PROPOSED LEVELS	41.321	42.570	45.445	43.686
EXISTING LEVELS	41.321	41.387	43.428	43.686
LEVEL DIFFERENCE	0.000	1.184	2.017	0.000
OFFSETS	-10.146	-7.649	0.000	5.419

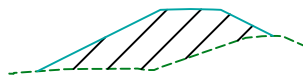
Chainage 3060.000
Datum: 38.000



Total Volume at Station 3+060.00	
Cut Vol	0.00
Fill Vol	643.85

PROPOSED LEVELS	41.248	45.423	43.683
EXISTING LEVELS	41.248	42.147	43.683
LEVEL DIFFERENCE	0.000	3.276	0.000
OFFSETS	-10.250	0.000	5.381

Chainage 3100.000
Datum: 38.000



Total Volume at Station 3+100.00	
Cut Vol	0.00
Fill Vol	611.24

PROPOSED LEVELS	41.351	42.247	45.467	43.690
EXISTING LEVELS	41.351	41.491	42.301	43.690
LEVEL DIFFERENCE	0.000	0.756	3.166	0.000
OFFSETS	-10.132	-8.341	0.000	5.455

General Notes

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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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

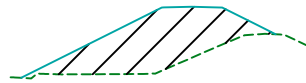
Project
WAIPAOA RIVER

Date
05.06.2026

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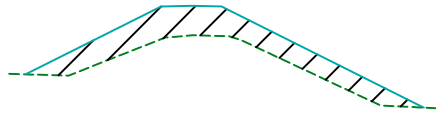
Chainage 3120.000
Datum: 38.000



Total Volume at Station 3+120.00	
Cut Vol	0.00
Fill Vol	690.73

PROPOSED LEVELS	40.789	43.902	45.490	43.672
EXISTING LEVELS	40.789	41.036	42.129	43.672
LEVEL DIFFERENCE	0.000	2.867	3.361	0.000
OFFSETS	-11.301	-5.074	0.000	5.534

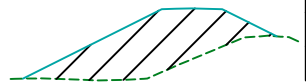
Chainage 3160.000
Datum: 35.000



Total Volume at Station 3+160.00	
Cut Vol	0.00
Fill Vol	767.60

PROPOSED LEVELS	40.998	45.531	42.672	39.092	38.794
EXISTING LEVELS	40.998	43.570	41.231	38.826	38.794
LEVEL DIFFERENCE	0.000	1.962	1.441	0.266	0.000
OFFSETS	-10.917	0.000	7.676	14.835	15.431

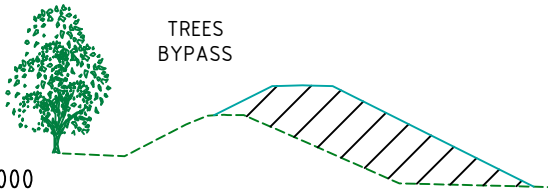
Chainage 3140.000
Datum: 38.000



Total Volume at Station 3+140.00	
Cut Vol	0.00
Fill Vol	750.00

PROPOSED LEVELS	40.866	43.524	45.512	43.663
EXISTING LEVELS	40.866	40.754	42.151	43.663
LEVEL DIFFERENCE	0.000	2.770	3.361	0.000
OFFSETS	-11.191	-5.875	0.000	5.597

Chainage 3180.000
Datum: 35.000



Total Volume at Station 3+180.00	
Cut Vol	0.00
Fill Vol	1094.68

PROPOSED LEVELS	43.577	45.553	42.596	38.855
EXISTING LEVELS	43.577	41.895	39.038	38.855
LEVEL DIFFERENCE	0.000	3.658	3.558	0.000
OFFSETS	-5.862	0.000	7.804	15.287

General Notes

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Fence lines

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Gates

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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

WAIPAPOA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAPOA RIVER

Date

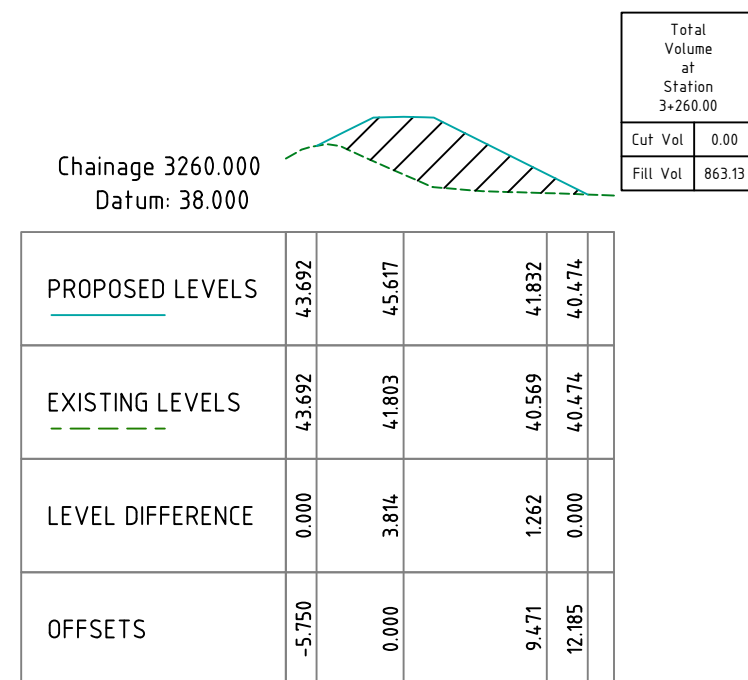
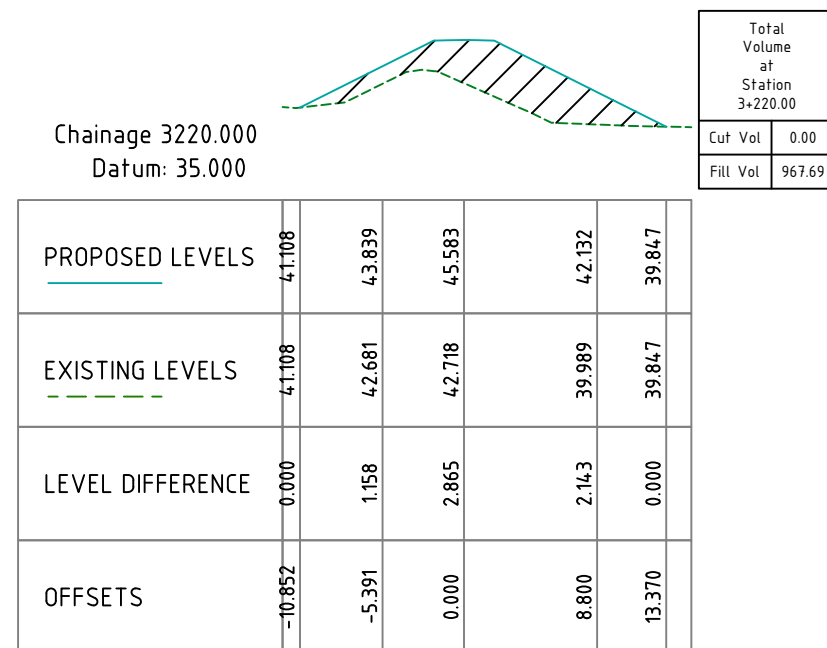
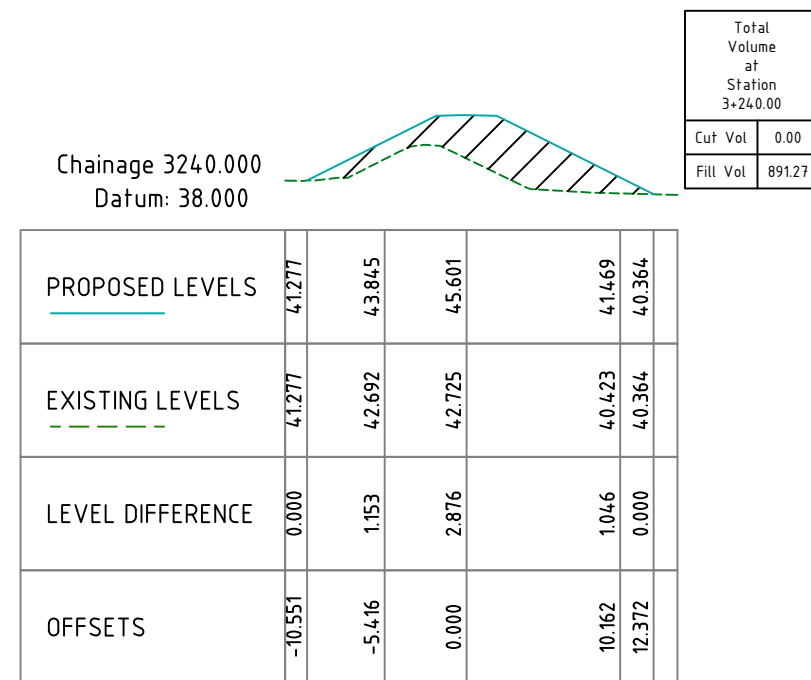
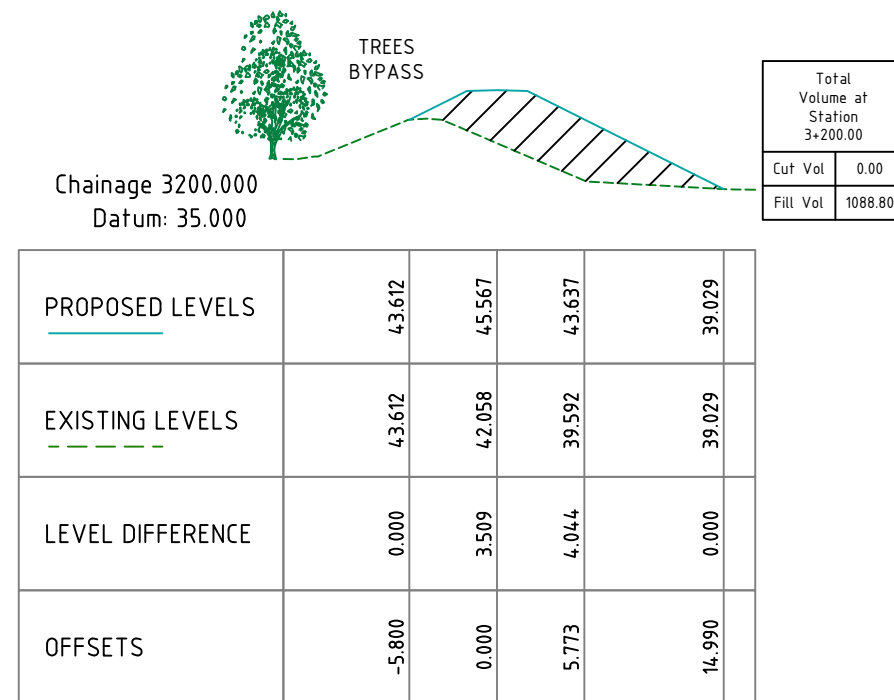
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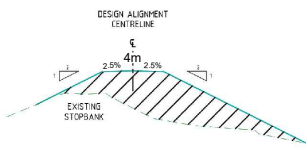
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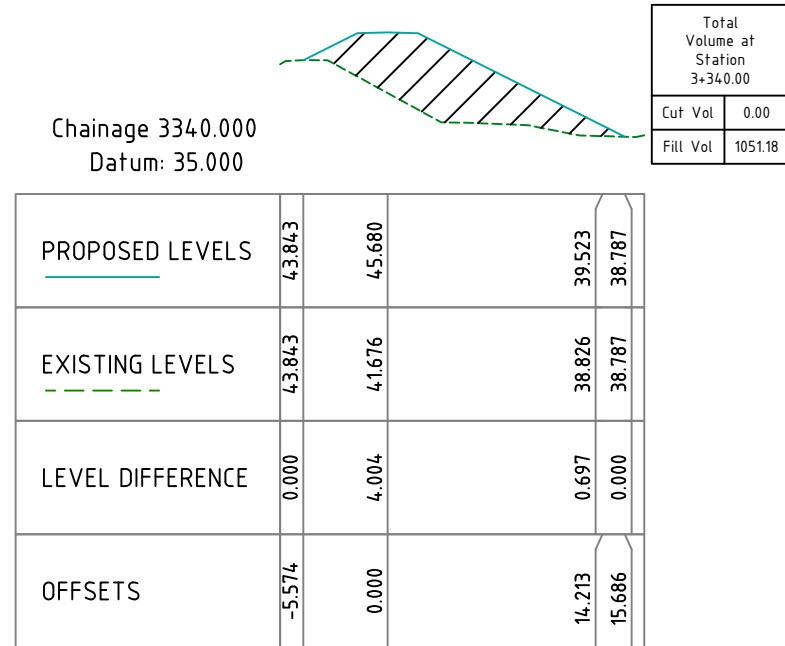
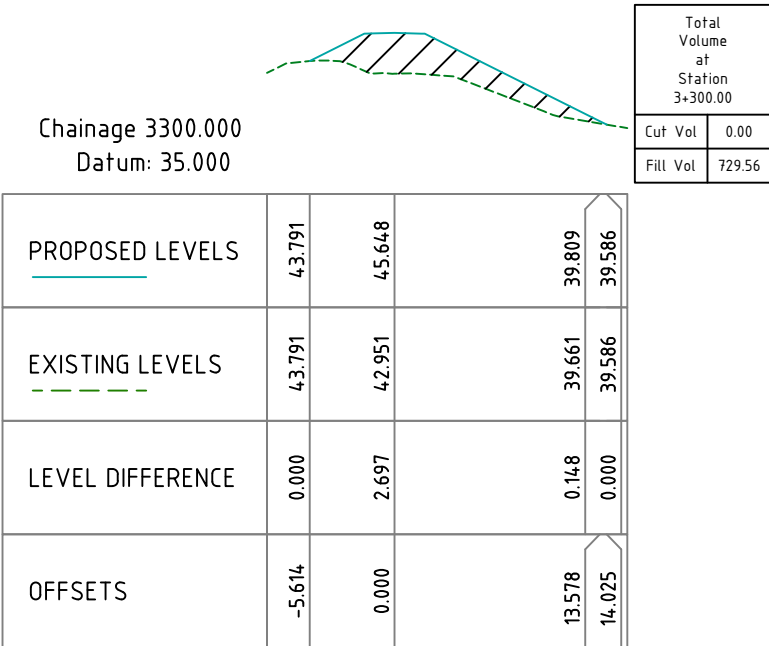
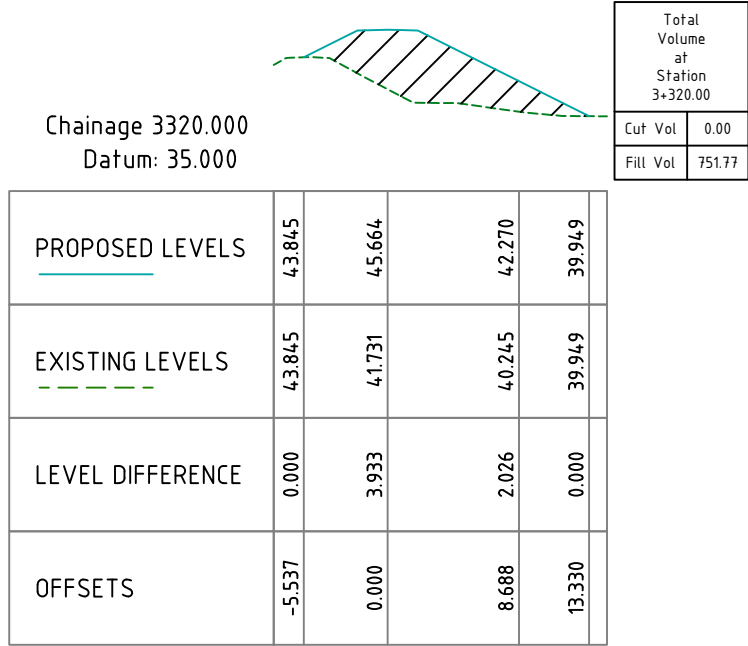
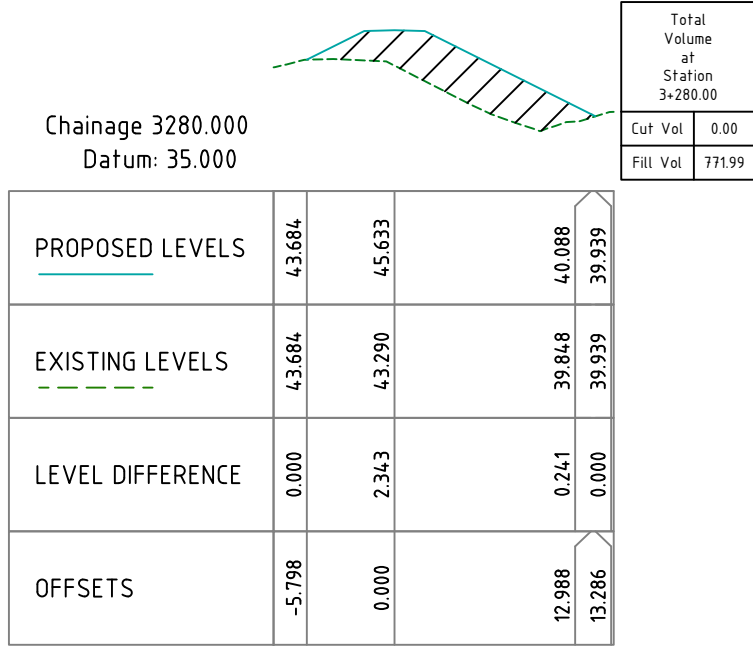
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General Notes											
Keys											
	Banks										
	Boundary lines										
	Fence lines										
	Gates										
	Culverts										
	Proposed design										
	Existing ground										
	Design footprint										
TEKA 1000 Alignment / Chainage Waipaoa river - Te Karaka											
Coordinate System in term of : NZTM 2000 Vertical Datum in term of : NZVD 2016											
CIVIL PROJECT SOLUTIONS <table border="1"> <tr> <td>Surveyed by :</td> <td>CPS CREW</td> <td>10/2025</td> </tr> <tr> <td>Drawn by :</td> <td>P.FLAUGERE</td> <td>06/2026</td> </tr> <tr> <td>Checked by :</td> <td>D.FOOTE</td> <td>06/2026</td> </tr> </table>			Surveyed by :	CPS CREW	10/2025	Drawn by :	P.FLAUGERE	06/2026	Checked by :	D.FOOTE	06/2026
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) 											
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 WESTERN SIDE STOPBANK CROSS SECTIONS											
Project WAIPAOA RIVER		Sheet 17									
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 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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

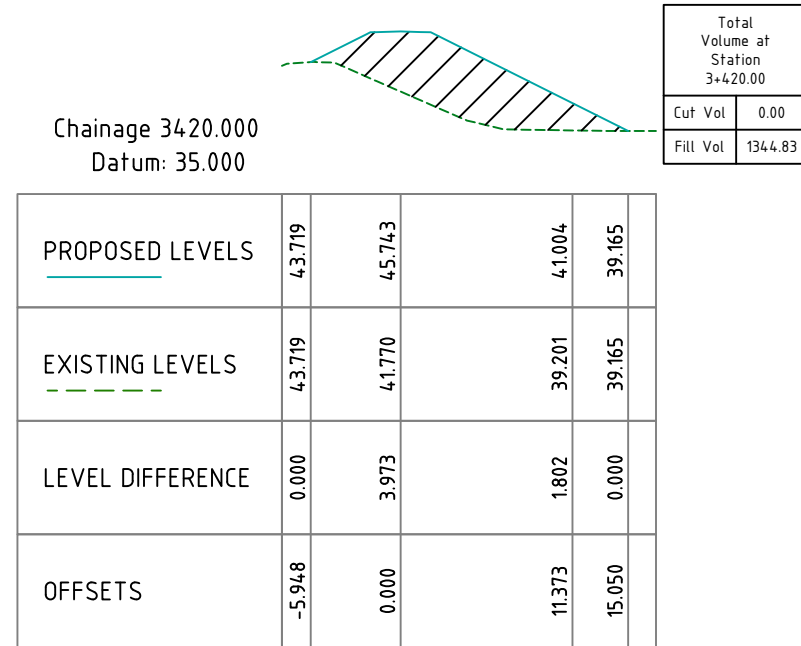
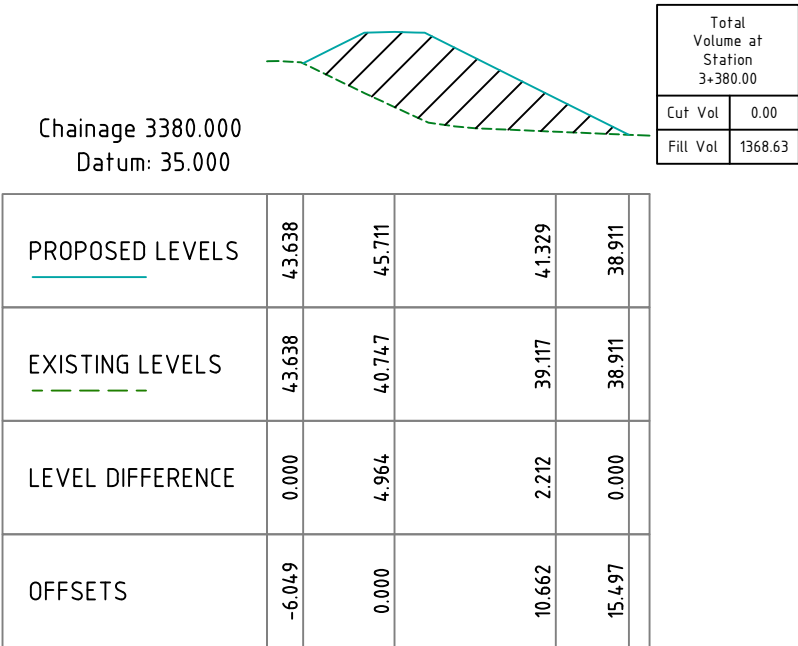
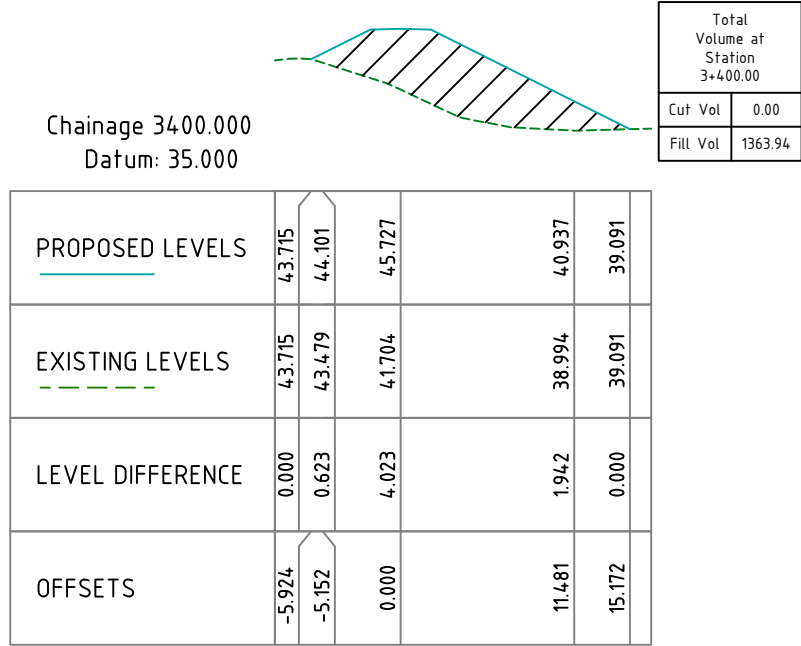
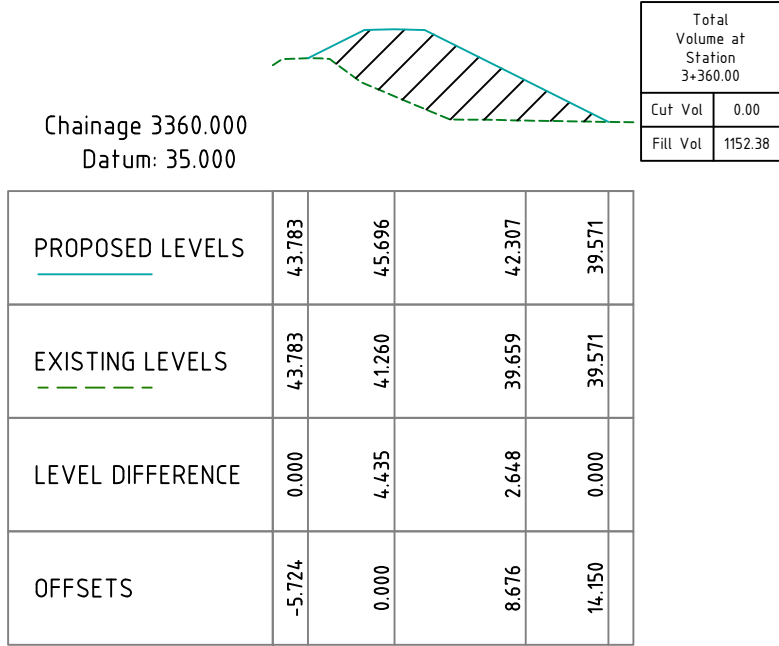
WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

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General Notes

Keys

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Boundary lines

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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 CREW10/2025

Drawn by : P.FLAUGERE06/2026

Checked by : D.FOOTE06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

EXISTING
STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL
Te Kaunihera o Te Taiāwhiti

CPS

Civil Project Solutions

Firm Name and Address

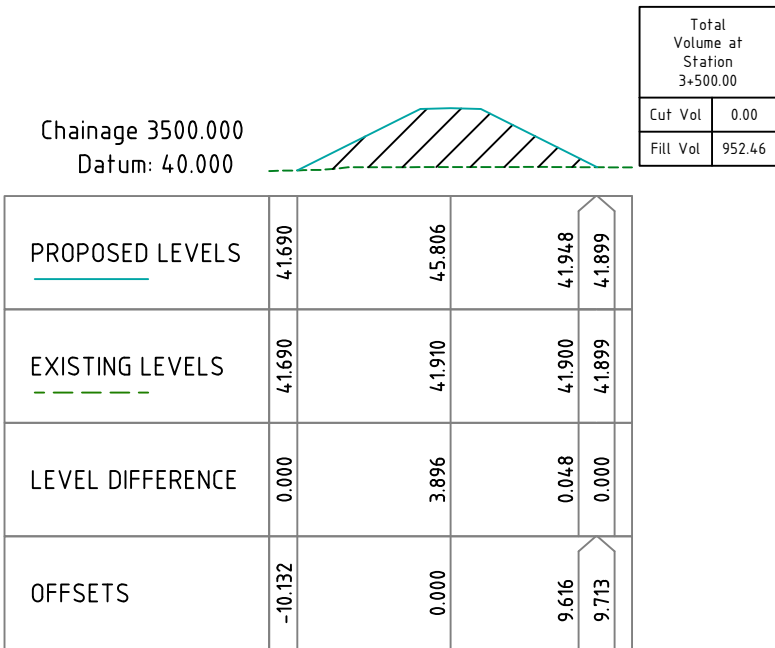
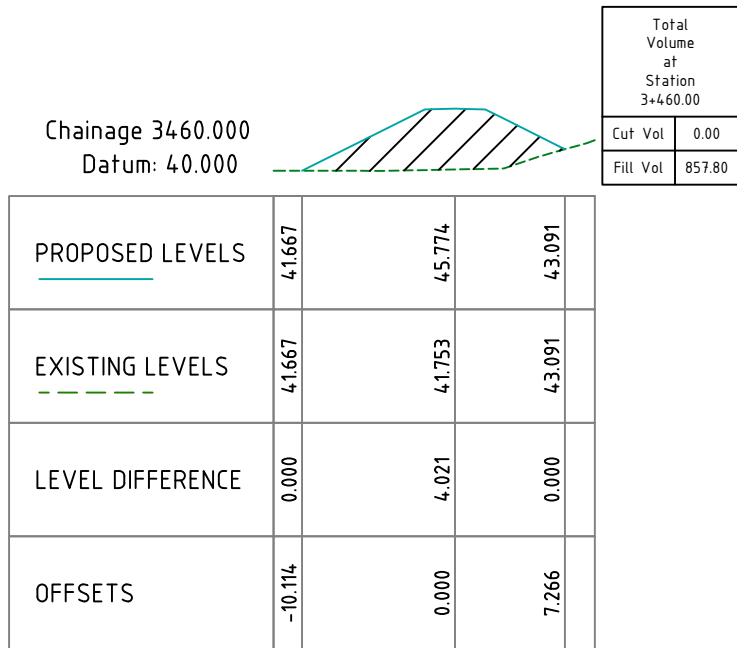
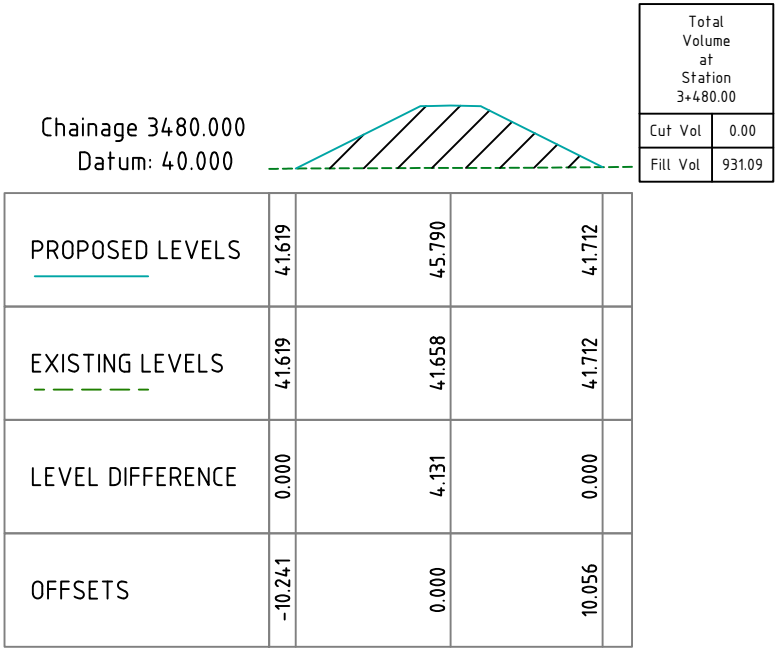
WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

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General Notes

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Proposed design

Existing ground

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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)

Firm Name and Address

Te Kaunihera o Te Tairāwhiti

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

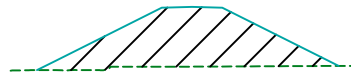
Date
05.06.2026

Scale
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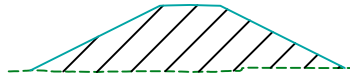
Chainage 3520.000
Datum: 40.000



Total Volume at Station 3+520.00	
Cut Vol	0.00
Fill Vol	924.06

PROPOSED LEVELS	41.645	42.284	45.824	41.923
EXISTING LEVELS	41.645	41.649	41.876	41.923
LEVEL DIFFERENCE	0.000	0.635	3.948	0.000
OFFSETS	-10.257	-8.980	0.000	9.702

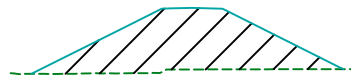
Chainage 3560.000
Datum: 40.000



Total Volume at Station 3+560.00	
Cut Vol	0.00
Fill Vol	1049.15

PROPOSED LEVELS	41.625	41.957	45.956	41.788
EXISTING LEVELS	41.625	41.626	41.531	41.788
LEVEL DIFFERENCE	0.000	0.331	4.424	0.000
OFFSETS	-10.561	-9.897	0.000	10.236

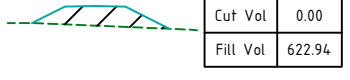
Chainage 3540.000
Datum: 40.000



Total Volume at Station 3+540.00	
Cut Vol	0.00
Fill Vol	975.21

PROPOSED LEVELS	41.527	45.890	41.840
EXISTING LEVELS	41.527	41.819	41.840
LEVEL DIFFERENCE	0.000	4.071	0.000
OFFSETS	-10.626	0.000	10.000

Chainage 3580.000
Datum: 40.000



Total Volume at Station 3+580.00	
Cut Vol	0.00
Fill Vol	622.94

PROPOSED LEVELS	44.886	46.022	44.508
EXISTING LEVELS	44.886	44.716	44.508
LEVEL DIFFERENCE	0.000	1.305	0.000
OFFSETS	-4.172	0.000	4.928

General Notes

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Top

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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 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

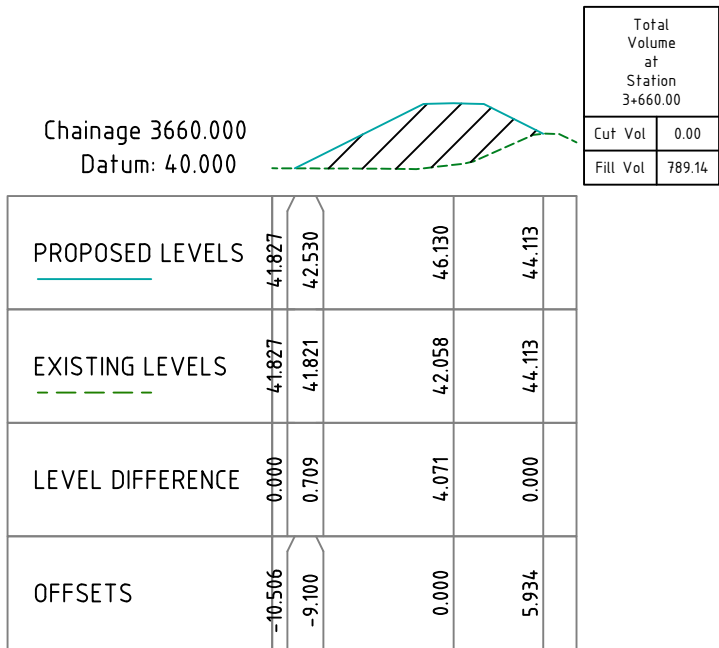
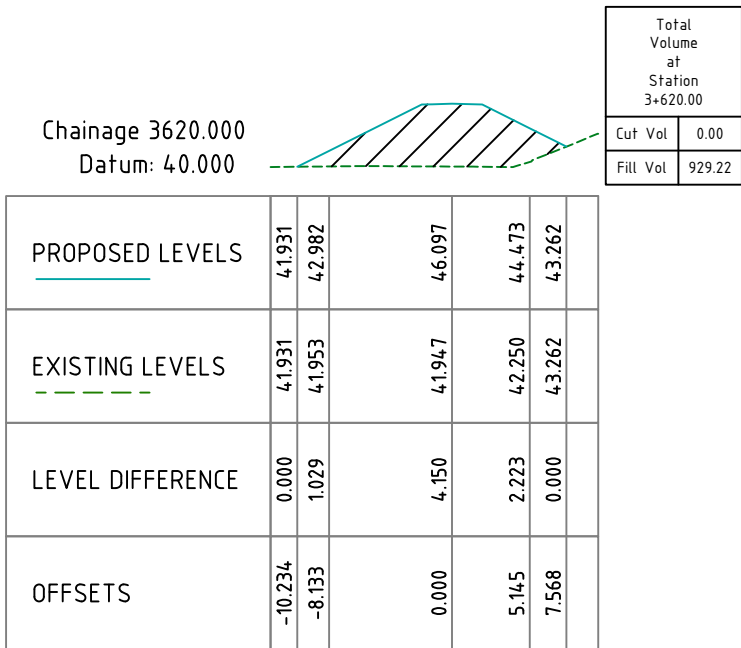
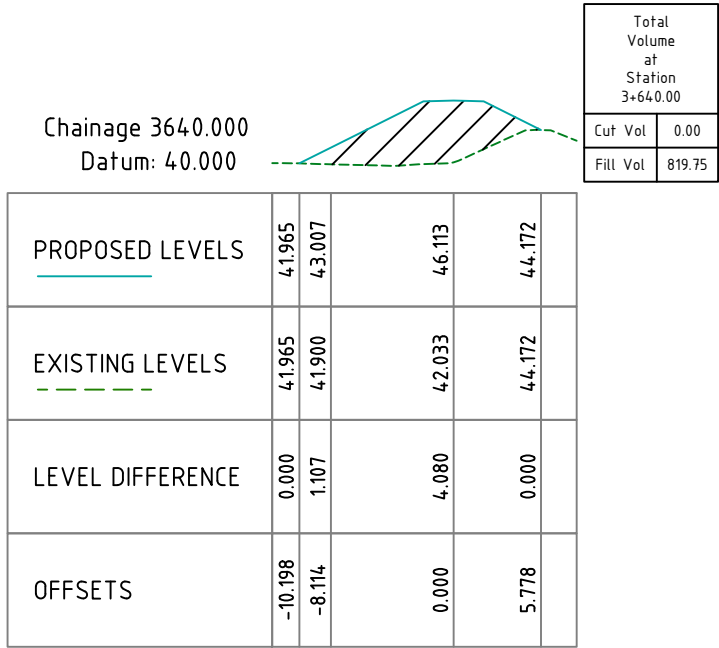
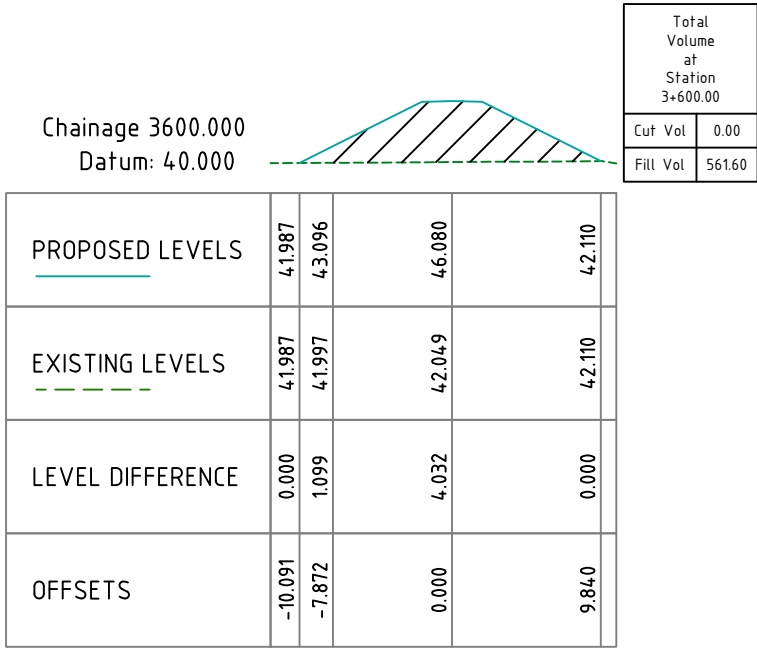
WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

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General Notes

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Boundary lines

Fence lines

⋈

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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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOA RIVER

Date

05.06.2026

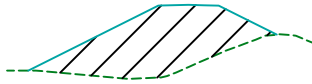
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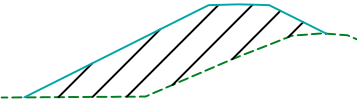
Chainage 3680.000
Datum: 38.000



Total Volume at Station 3+680.00	
Cut Vol	0.00
Fill Vol	839.99

PROPOSED LEVELS	41.799		46.146	44.176
EXISTING LEVELS	41.799		42.030	44.176
LEVEL DIFFERENCE	0.000		4.116	0.000
OFFSETS	-10.593		0.000	5.841

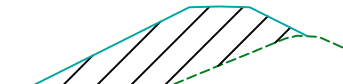
Chainage 3720.000
Datum: 38.000



Total Volume at Station 3+720.00	
Cut Vol	0.00
Fill Vol	1015.87

PROPOSED LEVELS	40.028		46.179	44.241
EXISTING LEVELS	40.028		42.717	44.241
LEVEL DIFFERENCE	0.000		3.462	0.000
OFFSETS	-14.171		0.000	5.806

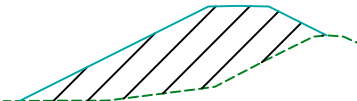
Chainage 3700.000
Datum: 38.000



Total Volume at Station 3+700.00	
Cut Vol	0.00
Fill Vol	950.33

PROPOSED LEVELS	40.670	42.694	46.162	44.198
EXISTING LEVELS	40.670	40.585	42.271	44.198
LEVEL DIFFERENCE	0.000	2.109	3.892	0.000
OFFSETS	-12.884	-8.836	0.000	5.830

Chainage 3740.000
Datum: 35.000



Total Volume at Station 3+740.00	
Cut Vol	0.00
Fill Vol	1155.43

PROPOSED LEVELS	39.891		46.185	44.431	44.230
EXISTING LEVELS	39.891		41.647	44.190	44.230
LEVEL DIFFERENCE	0.000		4.538	0.242	0.000
OFFSETS	-14.488		0.000	5.408	5.811

General Notes

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⋈

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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

WAIPAPOA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAPOA RIVER

Date

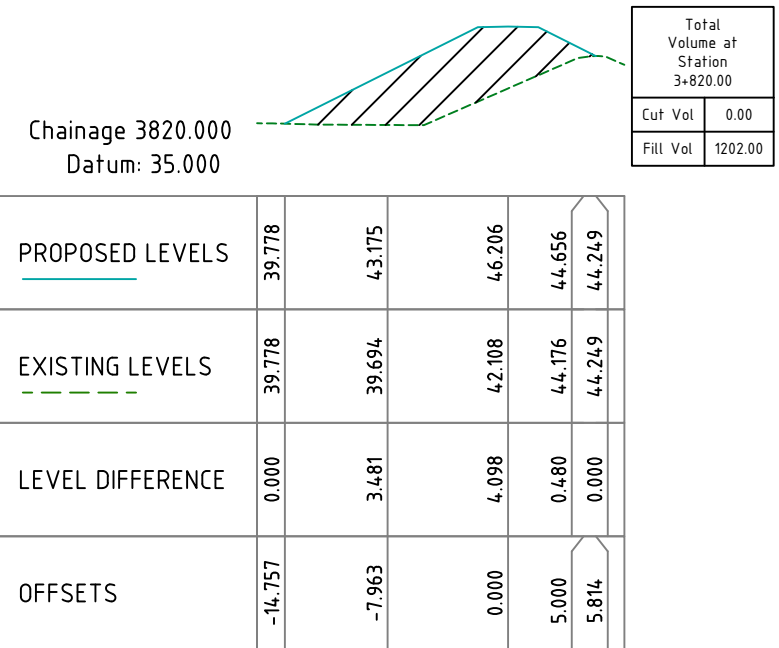
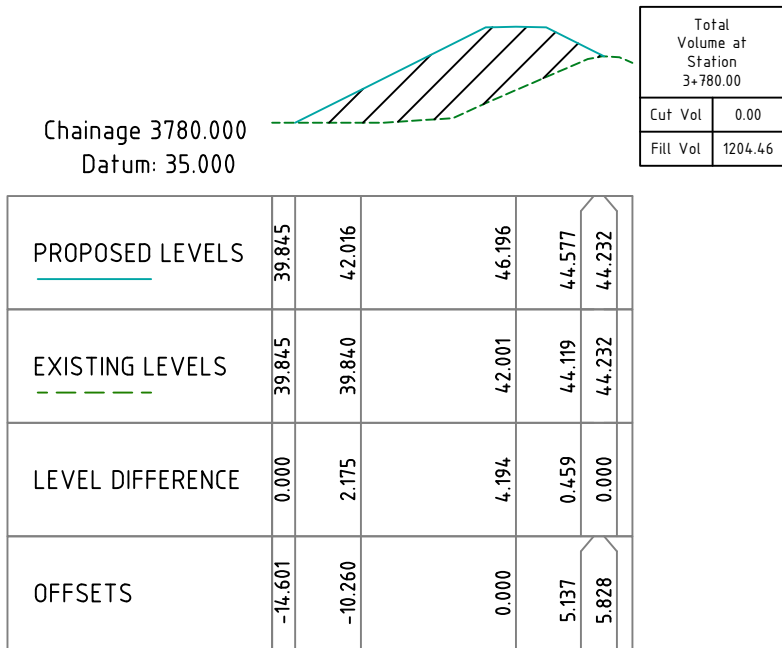
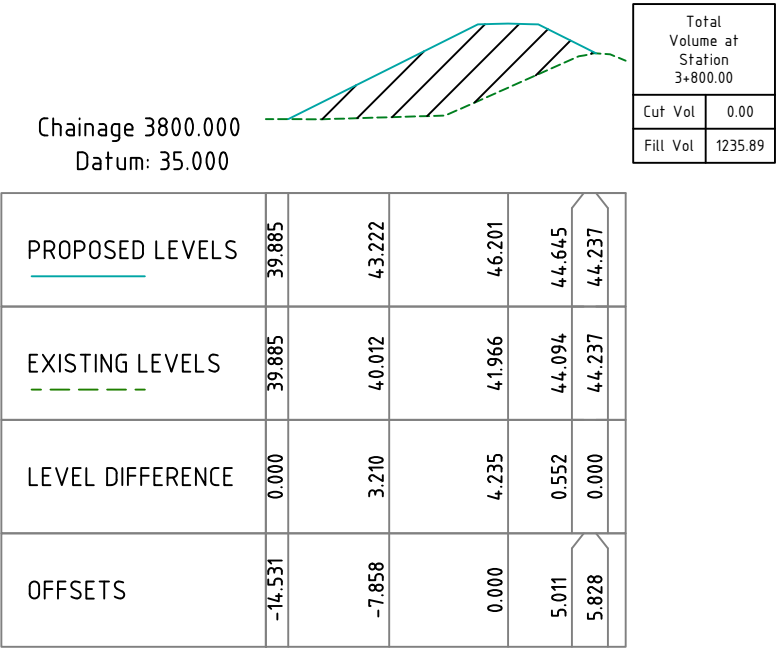
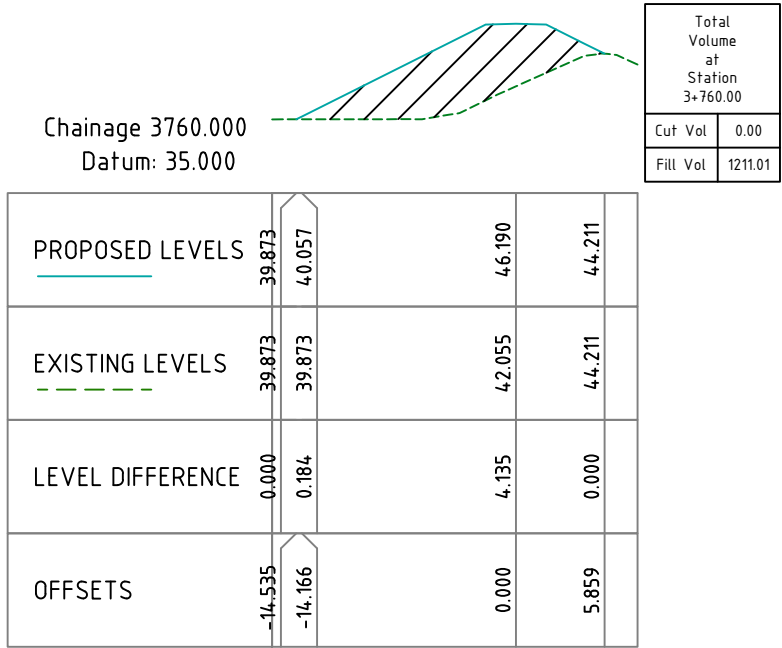
05.06.2026

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1:500 @ A3

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General Notes

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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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOA RIVER

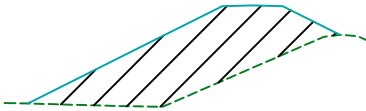
Date
05.06.2026

Scale
1:500 @ A3

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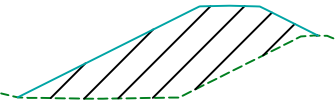
Chainage 3840.000
Datum: 35.000



Total Volume at Station 3+840.00	
Cut Vol	0.00
Fill Vol	1238.49

PROPOSED LEVELS	39.731	43.988	46.212	44.267
EXISTING LEVELS	39.731	39.520	42.090	44.267
LEVEL DIFFERENCE	0.000	4.468	4.122	0.000
OFFSETS	-14.862	-6.348	0.000	5.789

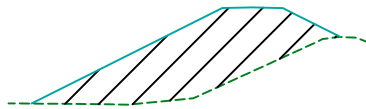
Chainage 3880.000
Datum: 38.000



Total Volume at Station 3+880.00	
Cut Vol	0.00
Fill Vol	1200.10

PROPOSED LEVELS	40.162	46.222	44.243
EXISTING LEVELS	40.162	41.821	44.243
LEVEL DIFFERENCE	0.000	4.402	0.000
OFFSETS	-14.021	0.000	5.859

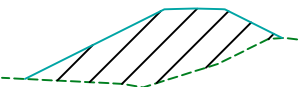
Chainage 3860.000
Datum: 35.000



Total Volume at Station 3+860.00	
Cut Vol	0.00
Fill Vol	1223.81

PROPOSED LEVELS	39.854	42.173	46.217	44.254
EXISTING LEVELS	39.854	39.810	41.988	44.254
LEVEL DIFFERENCE	0.000	2.363	4.229	0.000
OFFSETS	-14.627	-9.989	0.000	5.826

Chainage 3900.000
Datum: 38.000



Total Volume at Station 3+900.00	
Cut Vol	0.00
Fill Vol	1063.95

PROPOSED LEVELS	41.571	42.630	46.228	44.353	44.277
EXISTING LEVELS	41.571	41.466	42.079	44.268	44.277
LEVEL DIFFERENCE	0.000	1.165	4.149	0.085	0.000
OFFSETS	-11.214	-9.094	0.000	5.649	5.801

General Notes

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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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOA RIVER

Date

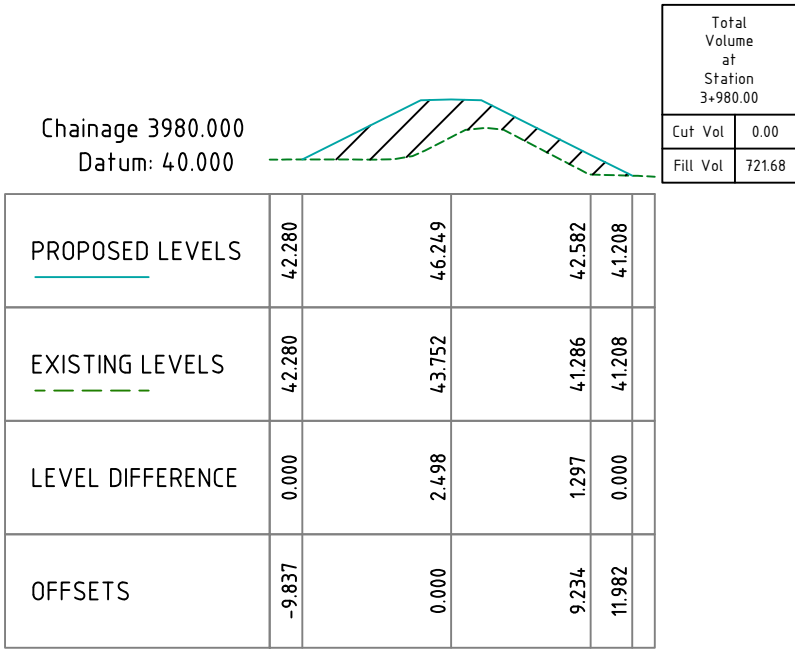
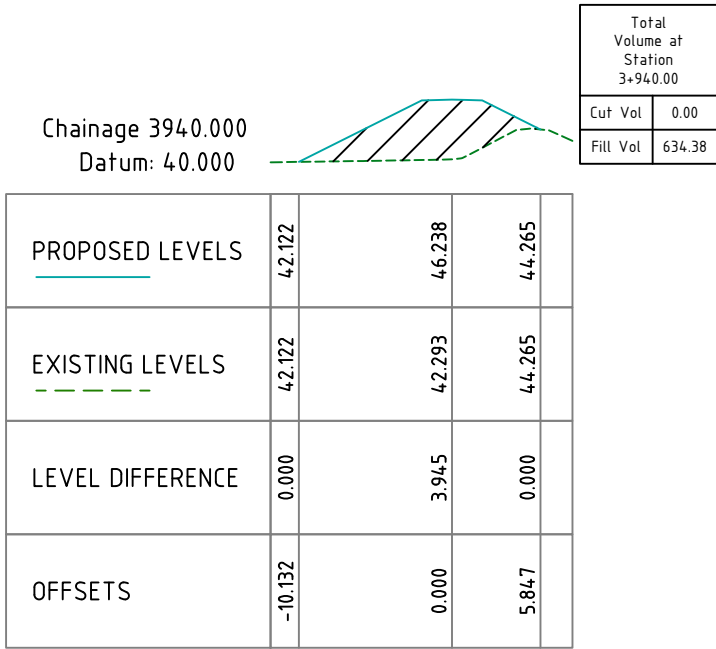
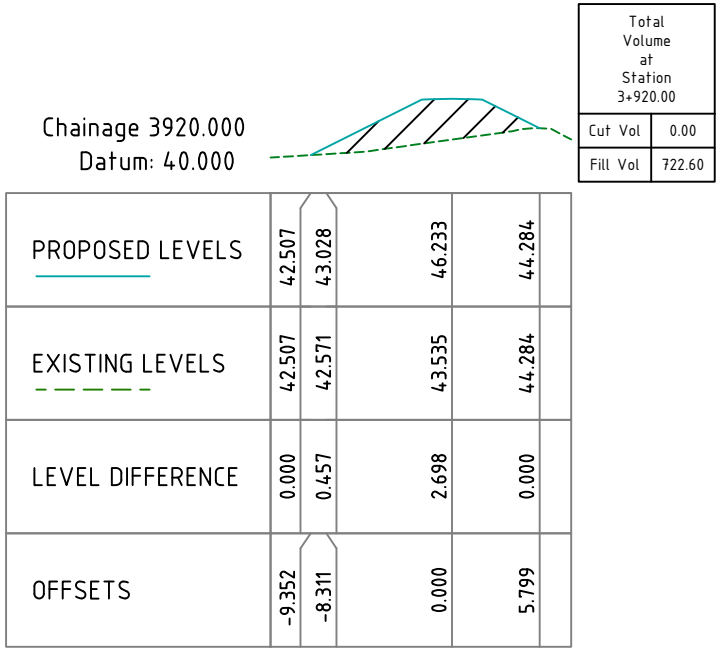
05.06.2026

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1:500 @ A3

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General Notes

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TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

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CIVIL PROJECT SOLUTIONS

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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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

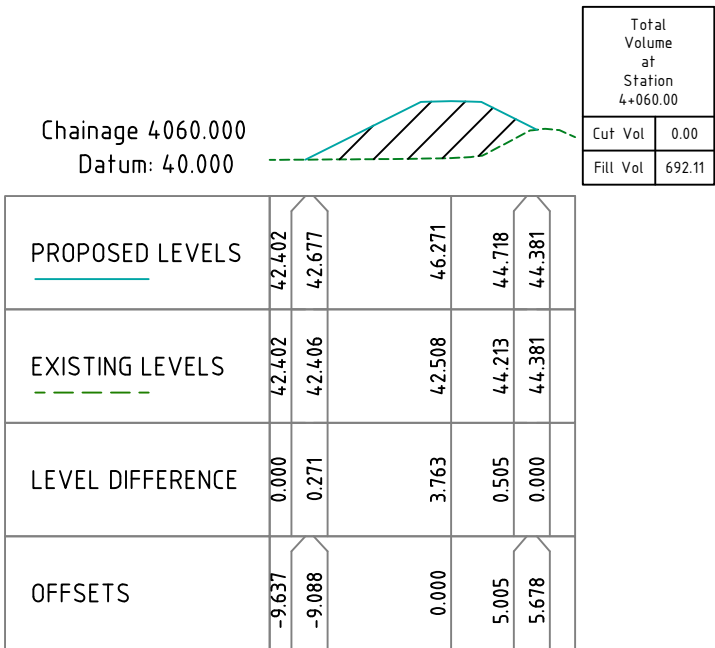
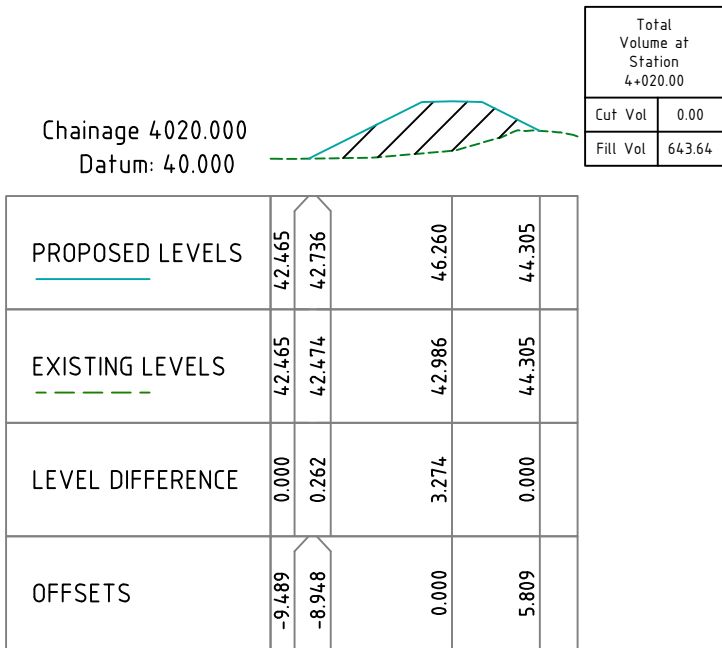
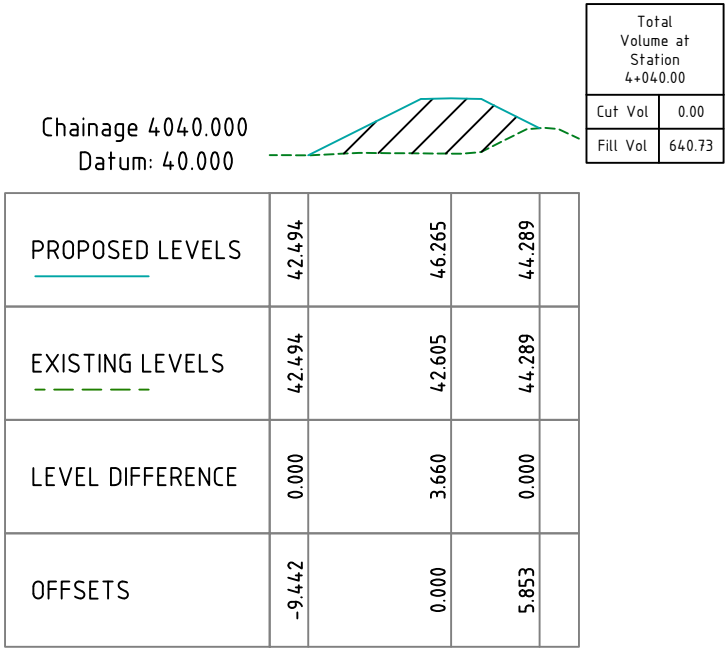
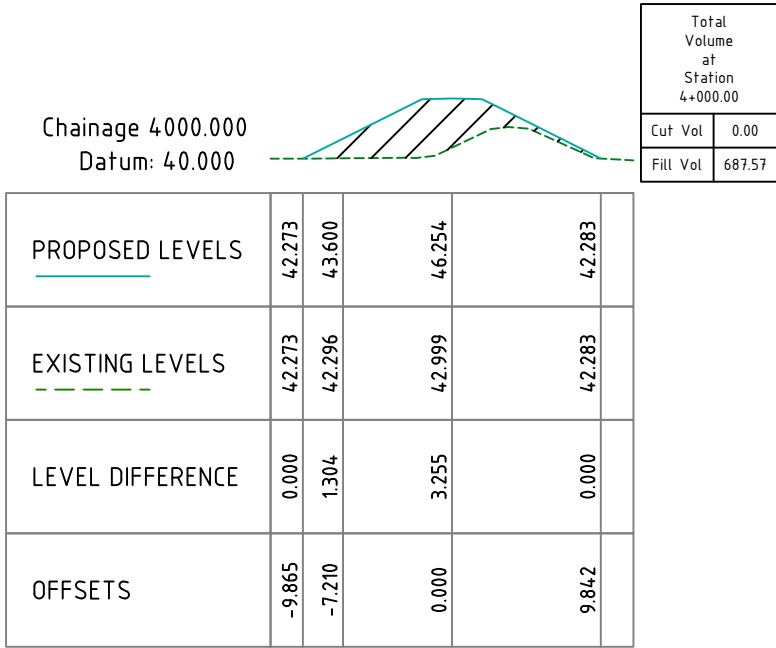
Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

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General Notes

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TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

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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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

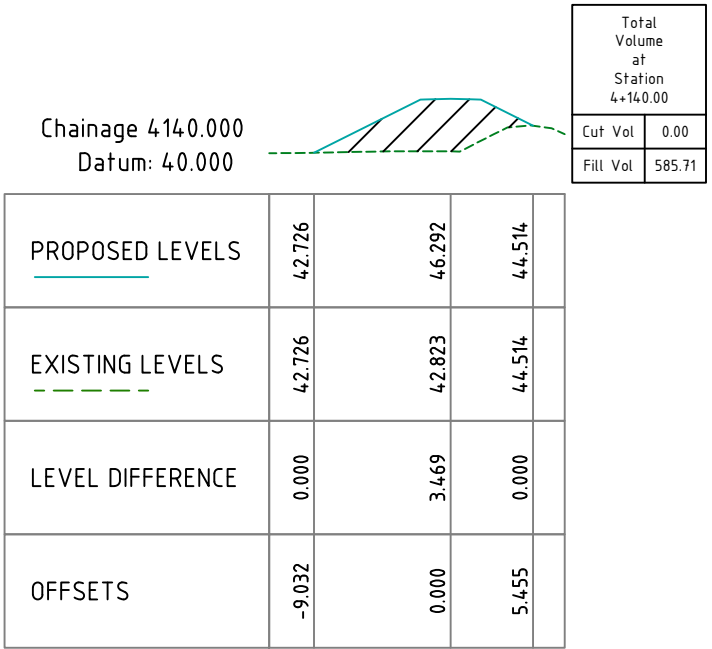
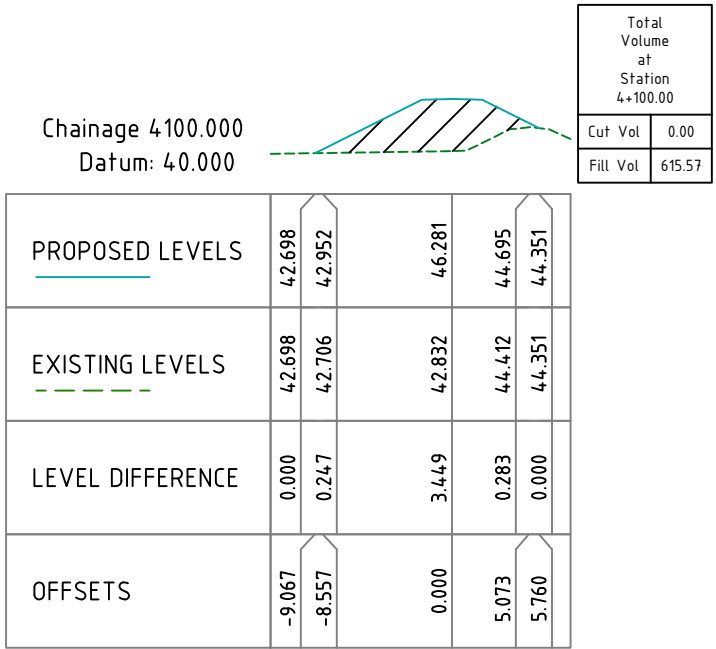
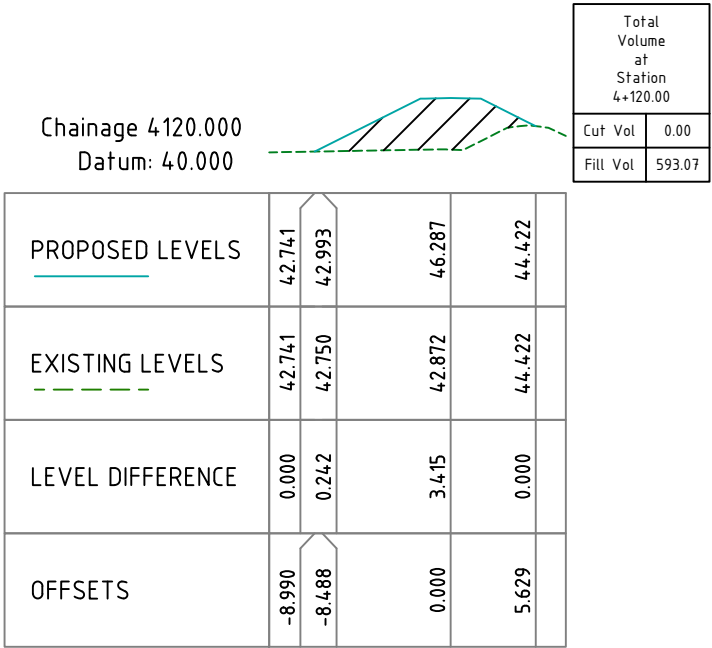
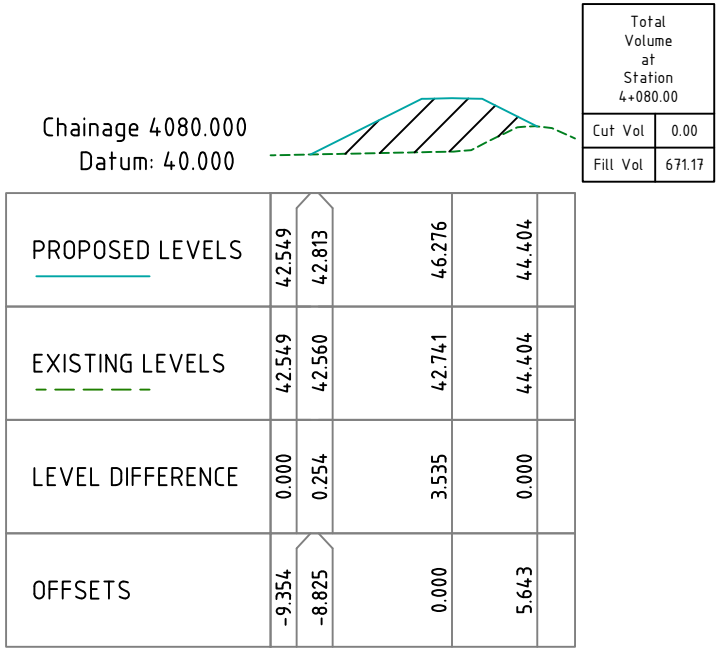
Project
WAIPAOPA RIVER

Date
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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 Taiāwhiti

CPS

Civil Project Solutions

Firm Name and Address

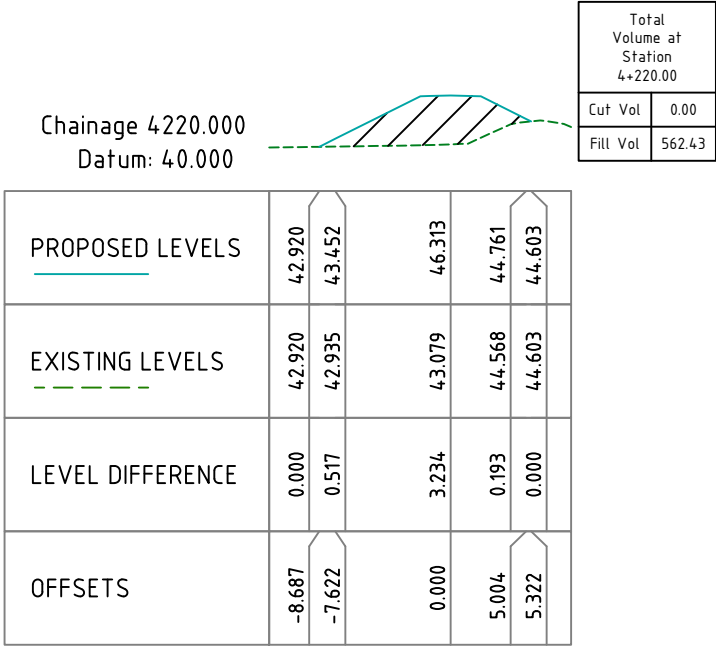
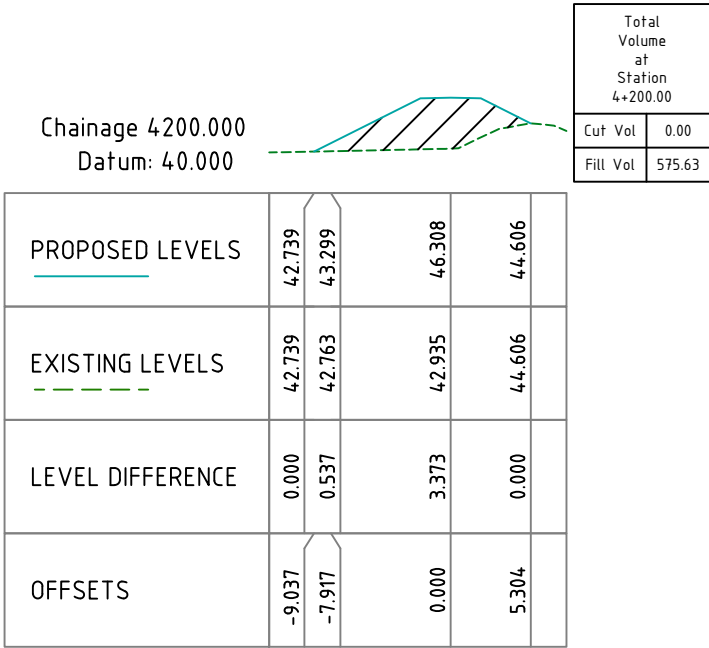
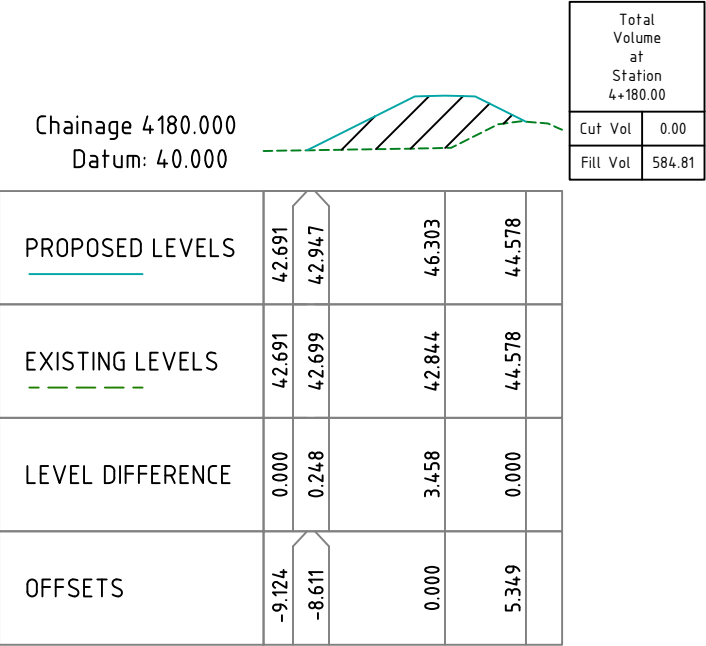
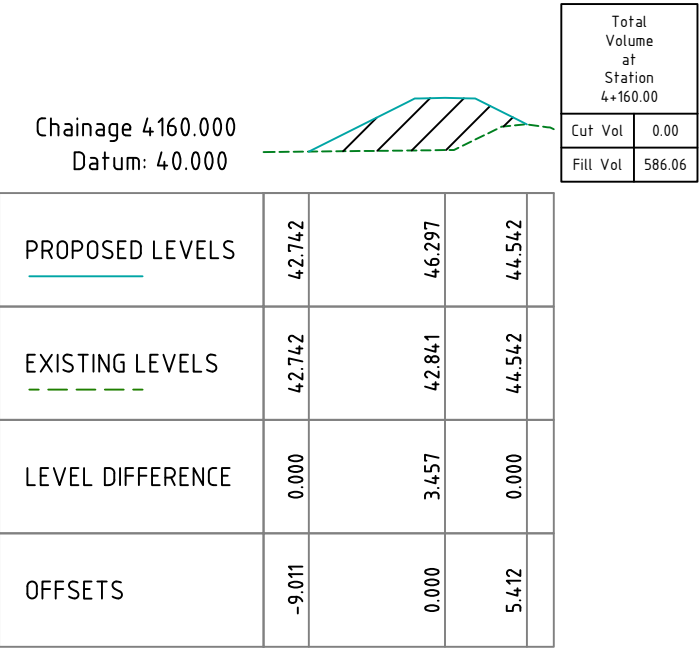
WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
28



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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOA RIVER

Date

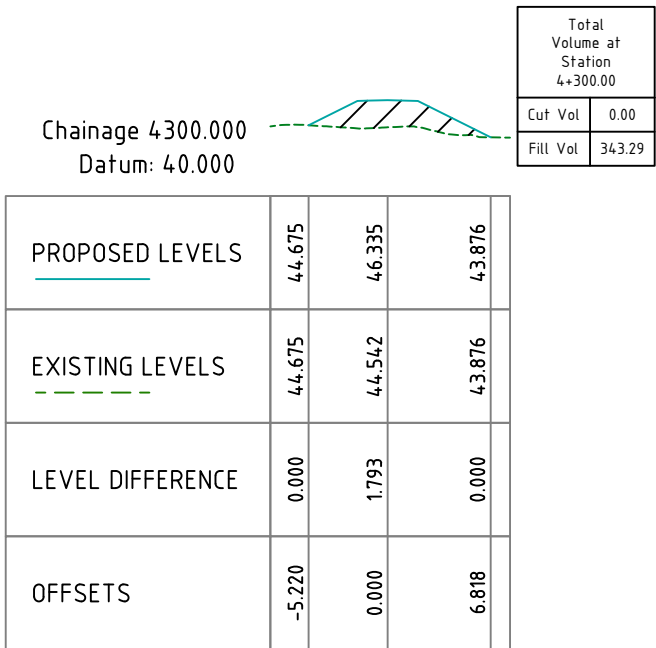
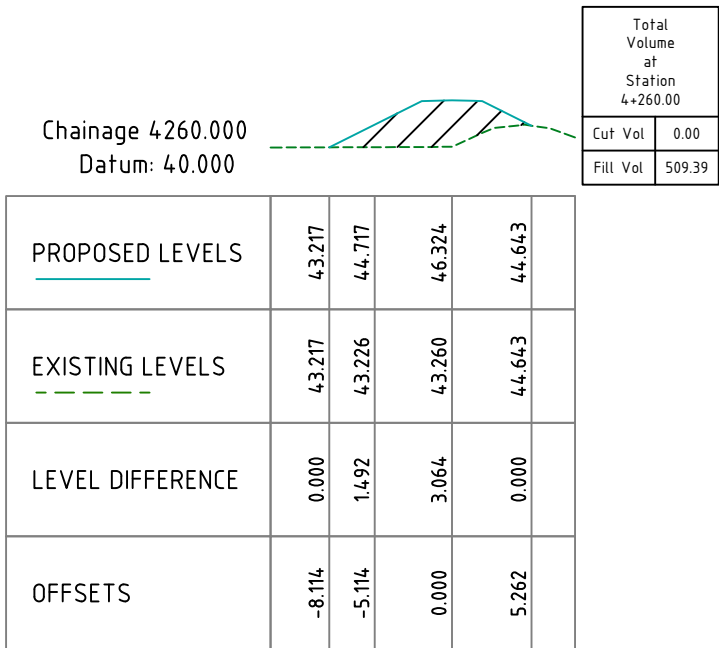
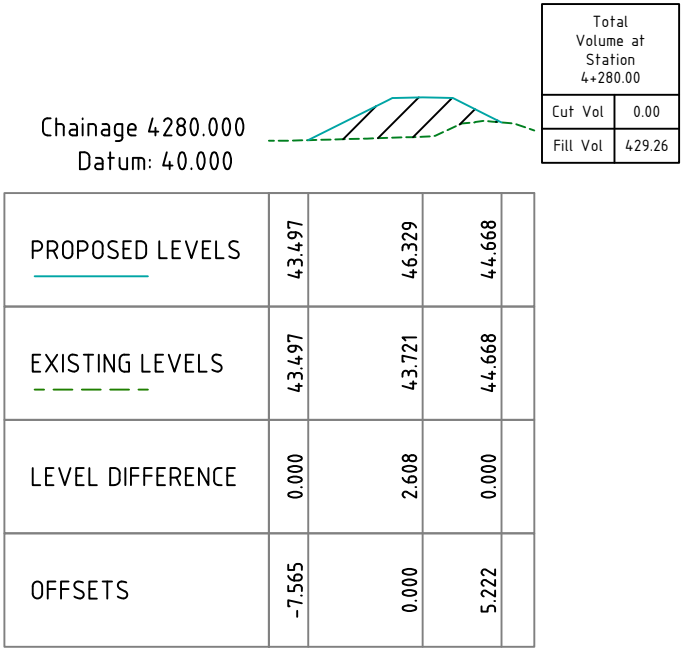
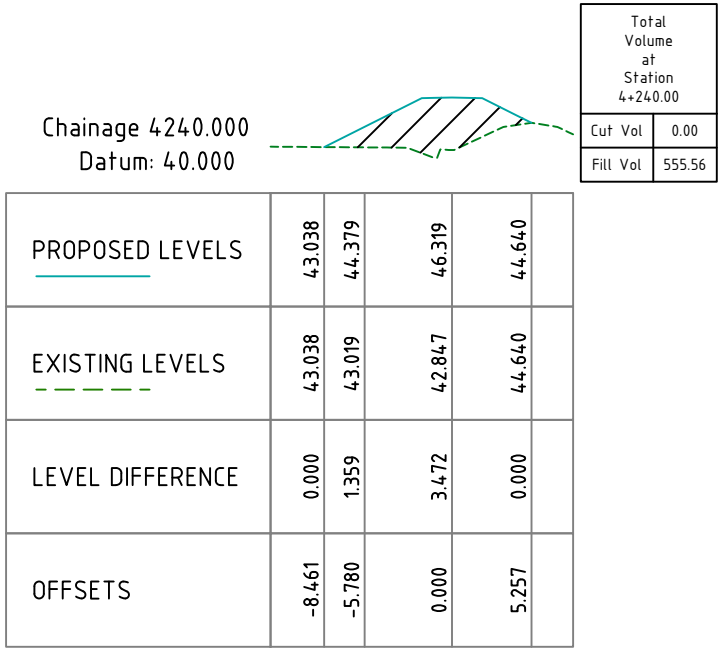
05.06.2026

Scale

1:500 @ A3

Sheet

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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

WESTERN SIDE STOPBANK

CROSS SECTIONS

Project

WAIPAOPA RIVER

Date

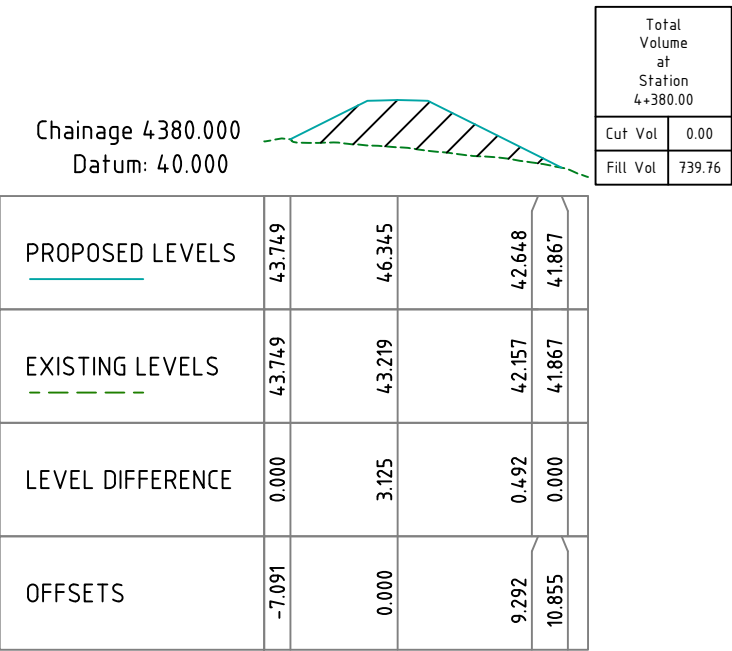
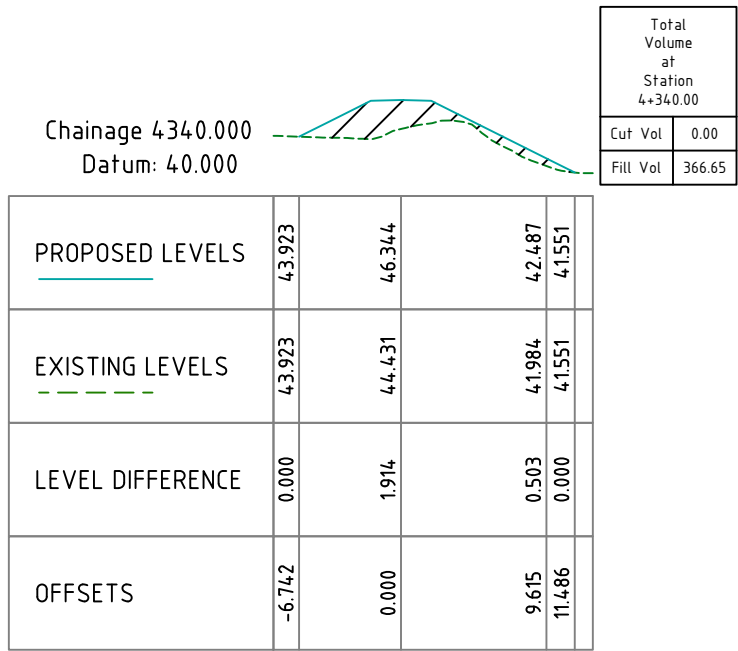
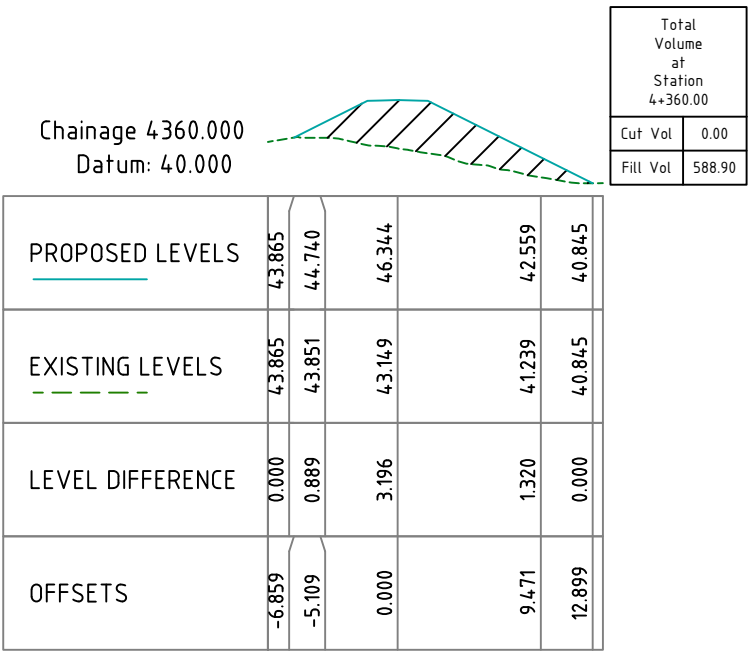
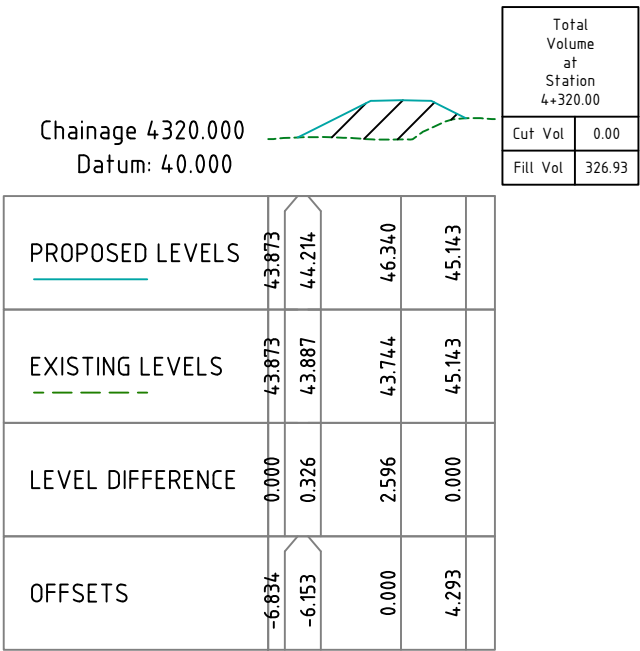
05.06.2026

Scale

1:500 @ A3

Sheet

30



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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

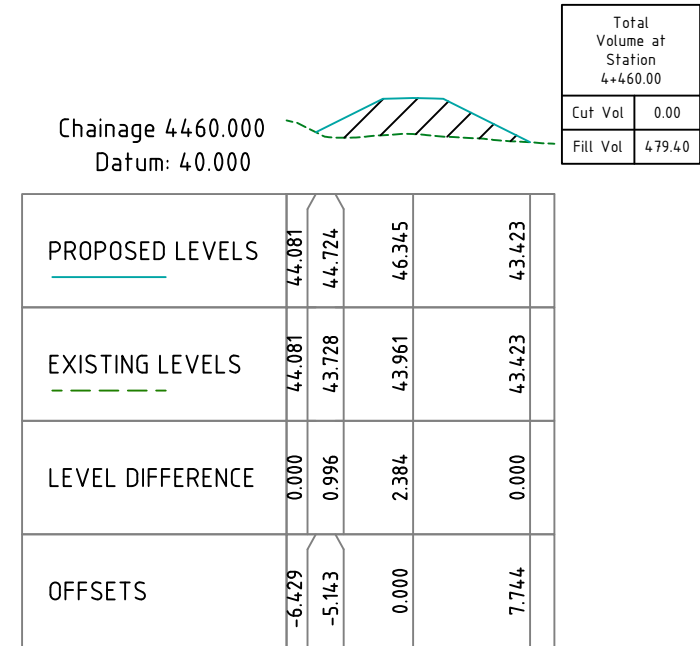
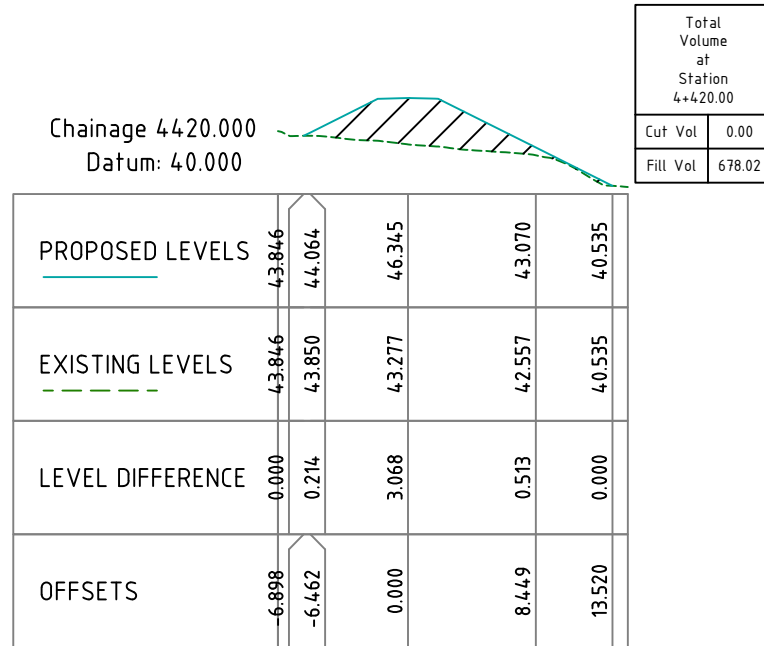
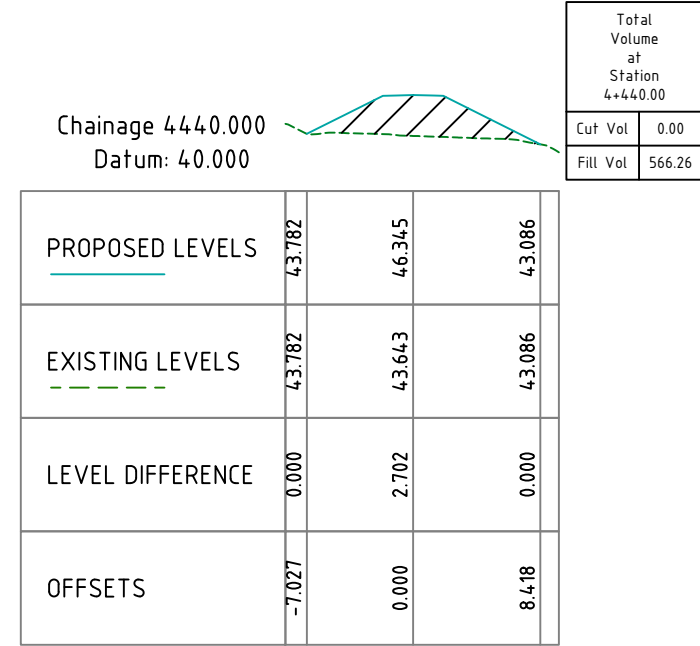
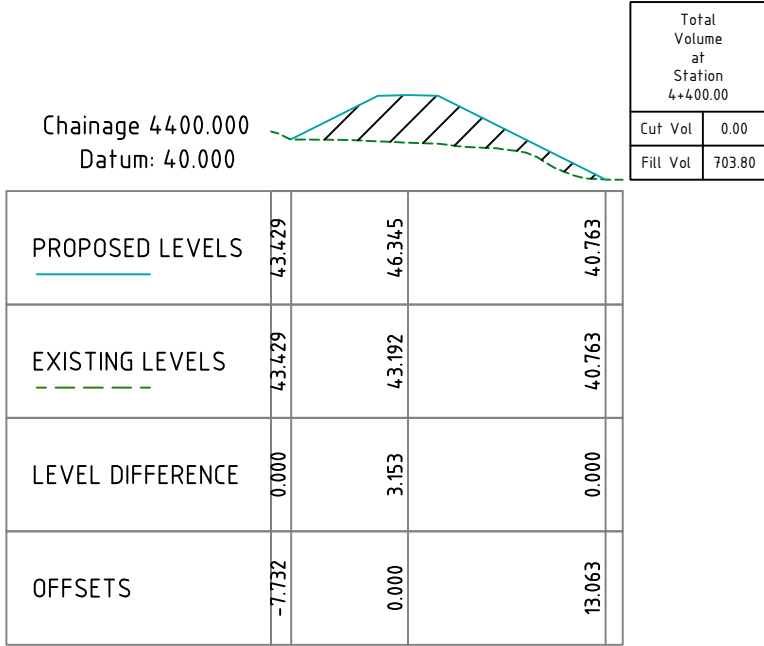
WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
31



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 Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
32

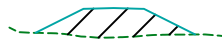
Chainage 4480.000
Datum: 40.000



Total Volume at Station 4+480.00		
Cut Vol	0.00	
Fill Vol	409.83	

PROPOSED LEVELS	44.399	44.605	46.345	43.711
EXISTING LEVELS	44.399	44.194	44.212	43.711
LEVEL DIFFERENCE	0.000	0.411	2.133	0.000
OFFSETS	-5.792	-5.381	0.000	7.168

Chainage 4520.000
Datum: 40.000



Total Volume at Station 4+520.00		
Cut Vol	0.00	
Fill Vol	274.58	

PROPOSED LEVELS	44.708	46.346	44.599
EXISTING LEVELS	44.708	44.398	44.599
LEVEL DIFFERENCE	0.000	1.948	0.000
OFFSETS	-5.176	0.000	5.394

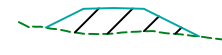
Chainage 4500.000
Datum: 40.000



Total Volume at Station 4+500.00		
Cut Vol	0.00	
Fill Vol	321.47	

PROPOSED LEVELS	44.520	46.346	44.335
EXISTING LEVELS	44.520	44.483	44.335
LEVEL DIFFERENCE	0.000	1.863	0.000
OFFSETS	-5.550	0.000	5.921

Chainage 4540.000
Datum: 40.000

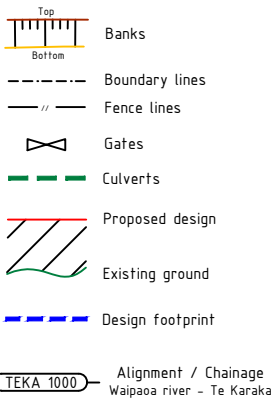


Total Volume at Station 4+540.00		
Cut Vol	0.00	
Fill Vol	245.05	

PROPOSED LEVELS	45.050	46.345	44.470
EXISTING LEVELS	45.050	44.660	44.470
LEVEL DIFFERENCE	0.000	1.684	0.000
OFFSETS	-4.489	0.000	5.650

General Notes

Keys

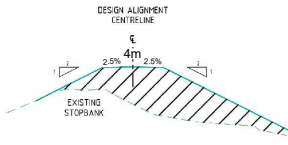


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

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

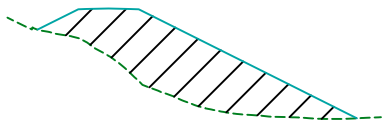
TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



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

Project WAIPAOA RIVER	Sheet 33
Date 05.06.2026	
Scale 1:500 @ A3	

Chainage 4560.000
Datum: 35.000



Total Volume at Station 4+560.00	
Cut Vol	0.00
Fill Vol	706.11

PROPOSED LEVELS	44.944	46.343	42.752	39.083
EXISTING LEVELS	44.944	43.212	39.323	39.083
LEVEL DIFFERENCE	0.000	3.131	3.429	0.000
OFFSETS	-4.699	0.000	9.083	16.421

Chainage 4590.610
Datum: 45.000

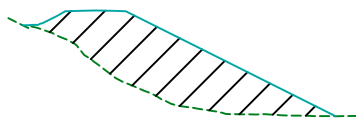
SH2
CONNECTION



Total Volume at Station 4+590.61	
Cut Vol	0.24
Fill Vol	515.67

PROPOSED LEVELS	46.318	46.341	46.328
EXISTING LEVELS	46.318	46.324	46.328
LEVEL DIFFERENCE	0.000	0.017	0.000
OFFSETS	-2.053	0.000	2.075

Chainage 4580.000
Datum: 35.000



Total Volume at Station 4+580.00	
Cut Vol	0.00
Fill Vol	1161.16

PROPOSED LEVELS	45.357	46.342	44.340	39.349
EXISTING LEVELS	45.357	42.875	39.977	39.349
LEVEL DIFFERENCE	0.000	3.467	4.364	0.000
OFFSETS	-3.870	0.000	5.903	15.886

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

2.0%4m2.0%

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
WESTERN SIDE STOPBANK
CROSS SECTIONS

Project
WAIPAOA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
34

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
1+966.13	0.00	0.00	0.00
1+980.00	45.56	315.91	315.91
2+000.00	51.37	969.33	1285.24
2+020.00	55.16	1065.25	2350.49
2+040.00	57.57	1127.32	3477.80
2+060.00	59.17	1167.40	4645.20
2+080.00	60.26	1194.30	5839.50
2+100.00	63.47	1237.35	7076.85
2+120.00	63.45	1269.24	8346.09
2+140.00	64.74	1281.98	9628.07
2+160.00	64.42	1291.61	10919.68
2+180.00	55.86	1202.75	12122.44
2+200.00	61.76	1176.16	13298.59
2+220.00	60.28	1220.40	14518.99
2+240.00	60.14	1204.25	15723.24
2+260.00	60.03	1201.76	16925.00
2+280.00	51.76	1117.89	18042.90
2+300.00	53.86	1056.11	19099.01
2+320.00	53.44	1072.95	20171.96
2+340.00	57.43	1108.68	21280.64
2+360.00	58.35	1157.75	22438.39
2+380.00	56.89	1152.32	23590.71
2+400.00	55.95	1128.37	24719.08
2+420.00	56.70	1126.57	25845.65
2+440.00	55.20	1119.09	26964.74

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
2+460.00	55.37	1105.73	28070.46
2+480.00	57.15	1125.19	29195.65
2+500.00	58.20	1153.46	30349.12
2+520.00	55.47	1136.63	31485.75
2+540.00	54.48	1099.49	32585.23
2+560.00	54.24	1087.18	33672.42
2+580.00	55.05	1092.84	34765.26
2+600.00	54.18	1092.32	35857.58
2+620.00	52.60	1067.84	36925.42
2+640.00	52.65	1052.45	37977.87
2+660.00	51.33	1039.60	39017.47
2+680.00	50.03	1013.52	40030.99
2+700.00	48.56	985.84	41016.84
2+720.00	47.64	958.20	41975.04
2+740.00	47.35	949.92	42924.96
2+760.00	38.63	853.90	43778.86
2+780.00	38.52	771.87	44550.73
2+800.00	54.38	928.93	45479.66
2+820.00	61.16	1263.13	46742.79
2+840.00	38.22	1005.10	47747.89
2+860.00	41.03	823.29	48571.18
2+880.00	37.42	784.48	49355.66
2+900.00	35.92	733.47	50089.13
2+920.00	30.48	659.82	50748.95
2+940.00	31.71	637.05	51386.00

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
2+960.00	34.90	678.64	52064.64
2+980.00	39.14	735.90	52800.54
3+000.00	35.86	745.50	53546.04
3+020.00	21.06	569.12	54115.16
3+040.00	33.44	537.64	54652.81
3+060.00	32.62	643.85	55296.66
3+080.00	27.70	619.75	55916.41
3+100.00	31.78	611.24	56527.65
3+120.00	36.53	690.73	57218.38
3+140.00	38.47	750.00	57968.39
3+160.00	38.60	767.60	58735.99
3+180.00	56.92	1094.68	59830.66
3+200.00	52.68	1088.80	60919.46
3+220.00	47.66	967.69	61887.15
3+240.00	44.26	891.27	62778.42
3+260.00	43.71	863.13	63641.56
3+280.00	42.89	771.99	64413.55
3+300.00	30.58	729.56	65143.11
3+320.00	46.79	751.77	65894.87
3+340.00	58.33	1051.18	66946.05
3+360.00	58.34	1152.38	68098.43
3+380.00	69.12	1368.63	69467.06
3+400.00	62.01	1363.94	70831.00
3+420.00	59.37	1344.83	72175.84
3+440.00	42.40	1032.58	73208.42

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

2.0%

2.0%

EXISTING
STOPBANK

Project Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN SIDE STOPBANK
VOLUME REPORT

Project
WAIPAOPA RIVER

Date
05.06.2026

Scale
1:500 @ A3

Sheet
35

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
3+460.00	43.38	857.80	74066.22
3+480.00	49.72	931.09	74997.31
3+500.00	45.52	952.46	75949.77
3+520.00	46.88	924.06	76873.83
3+540.00	50.64	975.21	77849.04
3+560.00	53.56	1049.15	78898.19
3+580.00	8.35	622.94	79521.13
3+600.00	47.81	561.60	80082.73
3+620.00	46.18	929.22	81011.95
3+640.00	38.49	819.75	81831.70
3+660.00	40.79	789.14	82620.84
3+680.00	43.21	839.99	83460.83
3+700.00	50.13	950.33	84411.16
3+720.00	51.10	1015.87	85427.03
3+740.00	59.93	1155.43	86582.45
3+760.00	59.28	1211.01	87793.47
3+780.00	59.86	1204.46	88997.93
3+800.00	59.51	1235.89	90233.82
3+820.00	60.69	1202.00	91435.82
3+840.00	61.91	1238.49	92674.30
3+860.00	60.47	1223.81	93898.11
3+880.00	59.53	1200.10	95098.21
3+900.00	45.68	1063.95	96162.15
3+920.00	26.33	722.60	96884.75
3+940.00	36.29	634.38	97519.13

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
3+960.00	35.75	721.26	98240.39
3+980.00	36.51	721.68	98962.07
4+000.00	32.92	687.57	99649.64
4+020.00	30.43	643.64	100293.28
4+040.00	33.65	640.73	100934.01
4+060.00	35.57	692.11	101626.12
4+080.00	31.55	671.17	102297.29
4+100.00	30.01	615.57	102912.86
4+120.00	29.30	593.07	103505.93
4+140.00	29.27	585.71	104091.64
4+160.00	29.34	586.06	104677.70
4+180.00	29.14	584.81	105262.51
4+200.00	28.60	575.63	105838.14
4+220.00	27.64	562.43	106400.58
4+240.00	27.91	555.56	106956.14
4+260.00	23.55	509.39	107465.53
4+280.00	19.96	429.26	107894.79
4+300.00	14.62	343.29	108238.08
4+320.00	17.51	326.93	108565.01
4+340.00	19.15	366.65	108931.65
4+360.00	39.74	588.90	109520.56
4+380.00	34.24	739.76	110260.31
4+400.00	36.14	703.80	110964.11
4+420.00	31.66	678.02	111642.13
4+440.00	24.97	566.26	112208.39

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
4+460.00	22.97	479.40	112687.80
4+480.00	18.06	409.83	113097.62
4+500.00	14.15	321.47	113419.09
4+520.00	13.31	274.58	113693.67
4+540.00	11.22	245.05	113938.72
4+560.00	59.39	706.11	114644.82
4+580.00	56.72	1161.16	115805.99
4+590.61	0.01	515.67	116321.66

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

Print Name and Address

GISBORNE

DISTRICT COUNCIL

Te Kaunihera o Te Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOA RIVER

TE KARAKA - TOWNSHIP

WESTERN SIDE STOPBANK

VOLUME REPORT

Project

WAIPAOA RIVER

Date

05.06.2026

Scale

1:500 @ A3

Sheet

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