

- Notes:
- 1) Contour interval:
major = 10.0m
minor = 1.0m
 - 2) Culvert locations and sizes are indicative only
Actual culvert details to be determined with engineer on site.
 - 3) Topographical data by Pix4D / UAV
 - 4) Aerial mosaic has been created from UAV images flown November 2019.
 - 5) Green peripheral lines denote fill, red peripheral lines denote areas of cut.

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Project

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ROCKY POINT
BENDIGO

Title

ROADING LAYOUT
ROAD A CH-24 - CH420
FOR RC APPLICATION

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Scale: 1:1000

Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 101	Revision: Date Created: B 7 Aug 2023



- Notes:
- 1) Contour interval:
major = 10.0m
minor = 1.0m
 - 2) Culvert locations and sizes are indicative only
Actual culvert details to be determined with engineer
on site.
 - 3) Topographical data by Pix4D / UAV
 - 4) Aerial mosaic has been created from UAV images
flown November 2019.
 - 5) Green peripheral lines denote fill, red peripheral
lines denote areas of cut.

REVISION	DETAIL	DATE

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Project

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 BENDIGO**

Title

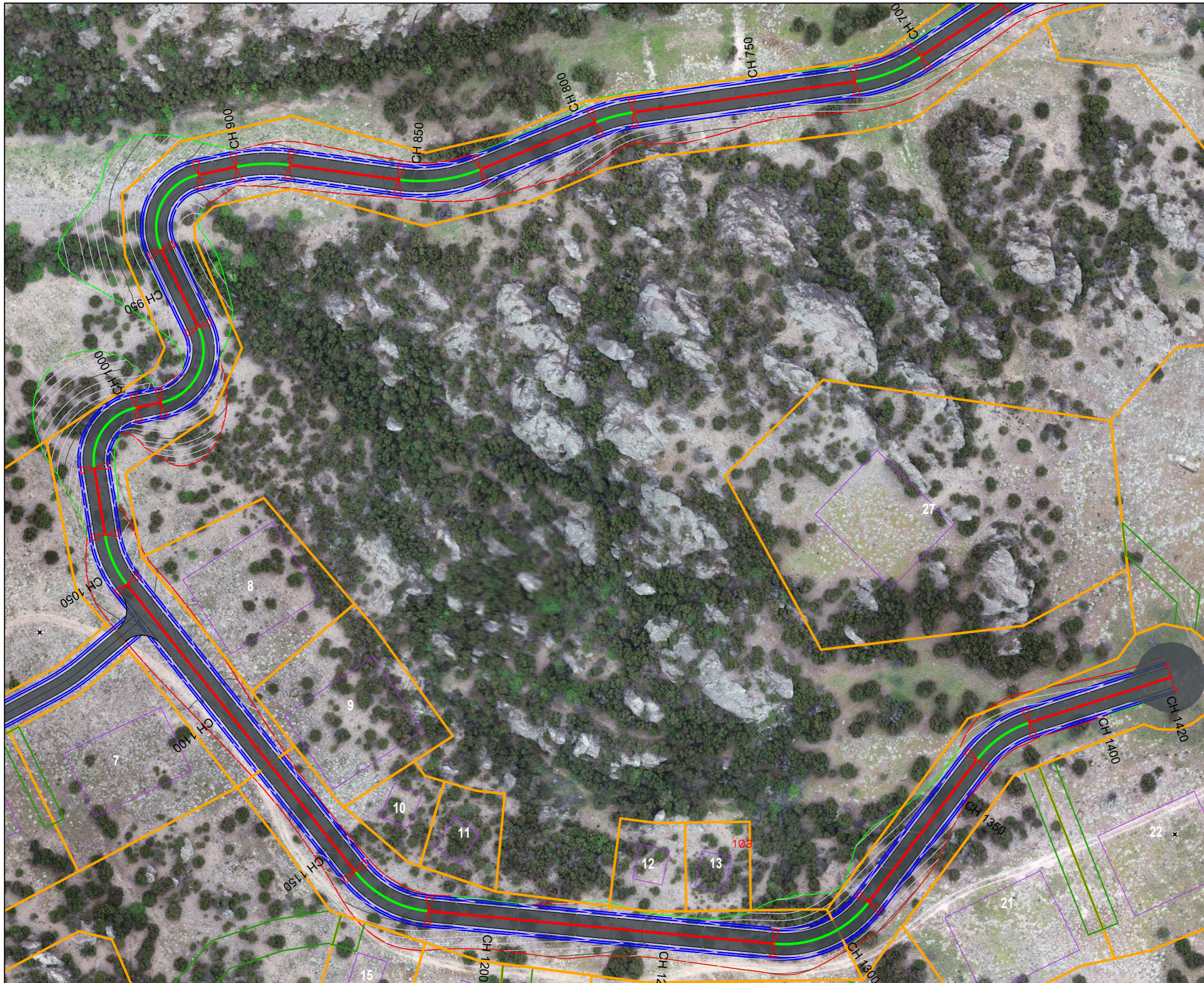
**ROADING LAYOUT
 ROAD A CH420 - CH690
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Scale: 1:1000

Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 102	Revision: Date Created: B 7 Aug 2023



- Notes:
- 1) Contour interval:
major = 10.0m
minor = 1.0m
 - 2) Culvert locations and sizes are indicative only
Actual culvert details to be determined with engineer
on site.
 - 3) Topographical data by Pix4D / UAV
 - 4) Aerial mosaic has been created from UAV images
flown November 2019.
 - 5) Green peripheral lines denote fill, red peripheral
lines denote areas of cut.

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Project

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ROCKY POINT
BENDIGO

Title

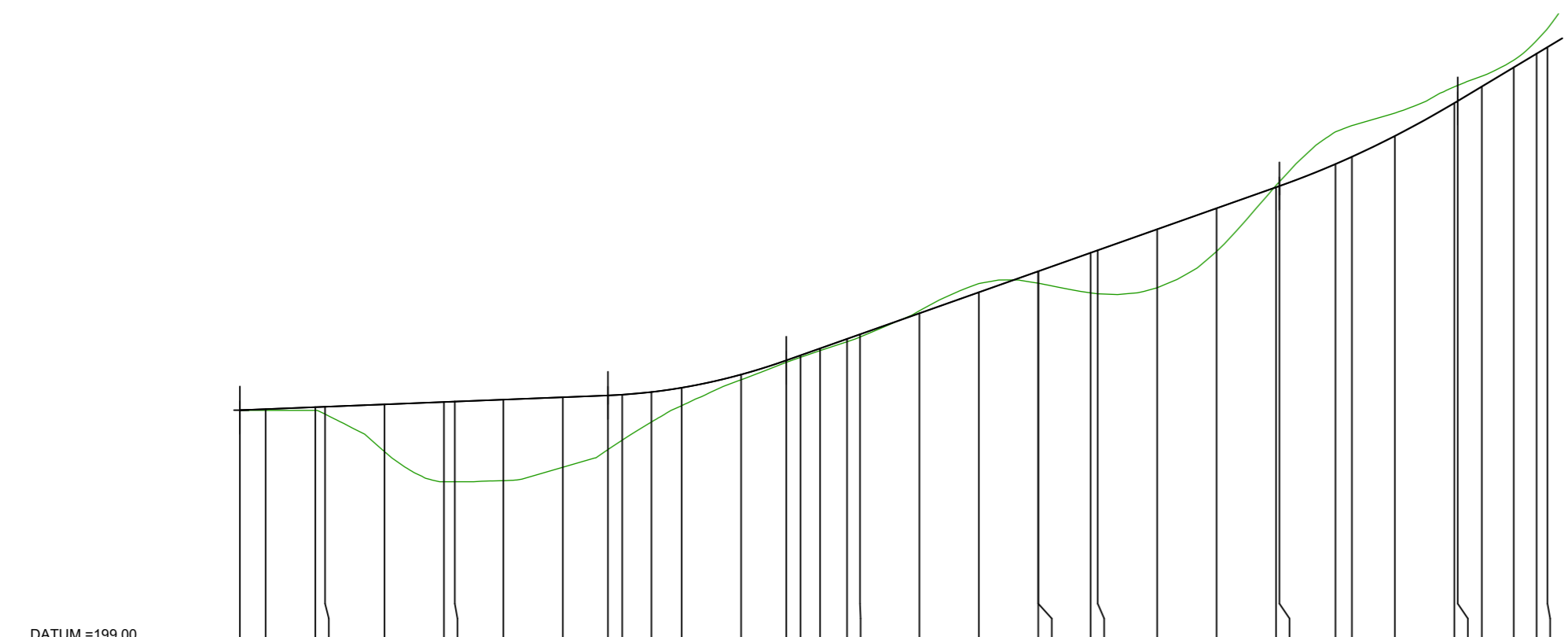
ROADING LAYOUT
ROAD A CH690 - CH1420
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Scale: 1:1000

Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 103	Revision: Date Created: B 7 Aug 2023



DATUM = 199.00

CUT/FILL @ CL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVELS	VERTICAL SCHEMATIC	HORIZONTAL SCHEMATIC	DISTANCE
-0.01	209.01	209.00	P=1.00% L=61.93	D=12.69m	-24
-0.05	209.05	209.00			-20
-0.14	209.14	209.00	R=383.01 L=30.00	R=-15.00 L=23.47	-12
-0.31	209.15	208.84			-10
-1.99	209.25	207.27	R=383.01 L=30.00	D=33.08m	0
-3.35	209.35	206.00			12
-3.37	209.37	206.00	R=383.01 L=30.00	D=33.08m	20
-3.41	209.45	206.05			30
-2.94	209.55	206.61	R=383.01 L=30.00	D=33.08m	38
-2.27	209.63	207.35			40
-1.91	209.66	207.75	R=383.01 L=30.00	D=33.08m	45
-1.26	209.77	208.51			50
-0.76	209.95	209.20	R=383.01 L=30.00	D=33.08m	60
-0.22	210.51	210.28			68
-0.08	211.10	211.02	P=8.83% L=82.98	R=15.00 L=28.37	70
-0.08	211.31	211.23			73
-0.09	211.60	211.51	P=8.83% L=82.98	R=15.00 L=32.17	78
-0.12	212.01	211.89			80
-0.11	212.20	212.08	P=8.83% L=82.98	R=15.00 L=43.96	90
0.11	213.08	213.19			100
0.37	213.96	214.33	P=8.83% L=82.98	R=15.00 L=43.96	110
-0.50	214.85	214.35			111
-0.50	214.85	214.35	P=8.83% L=82.98	R=15.00 L=43.96	119
-1.69	215.63	213.94			120
-1.83	215.73	213.90	P=8.83% L=82.98	R=15.00 L=43.96	130
-2.46	216.61	214.15			140
-1.81	217.50	215.68	P=8.83% L=82.98	R=15.00 L=43.96	150
0.08	218.38	218.46			151
0.19	218.43	218.62	P=15.00% L=455.2	D=21.86m	160
1.36	219.35	220.71			163
0.96	220.53	220.97	P=15.00% L=455.2	D=21.86m	170
0.68	221.92	221.50			180
0.66	222.01	222.60	P=15.00% L=455.2	D=21.86m	181
0.44	222.61	222.66			185
0.30	223.42	223.05	P=15.00% L=455.2	D=21.86m	190
0.55	224.00	223.72			194
0.78	224.27	224.55	P=15.00% L=455.2	D=21.86m	196
		225.05			

LONGITUDINAL SECTION Road A Infracon
SCALE HORIZ=1:1000 VERT=1:250

REVISION	DETAIL	DATE

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Title

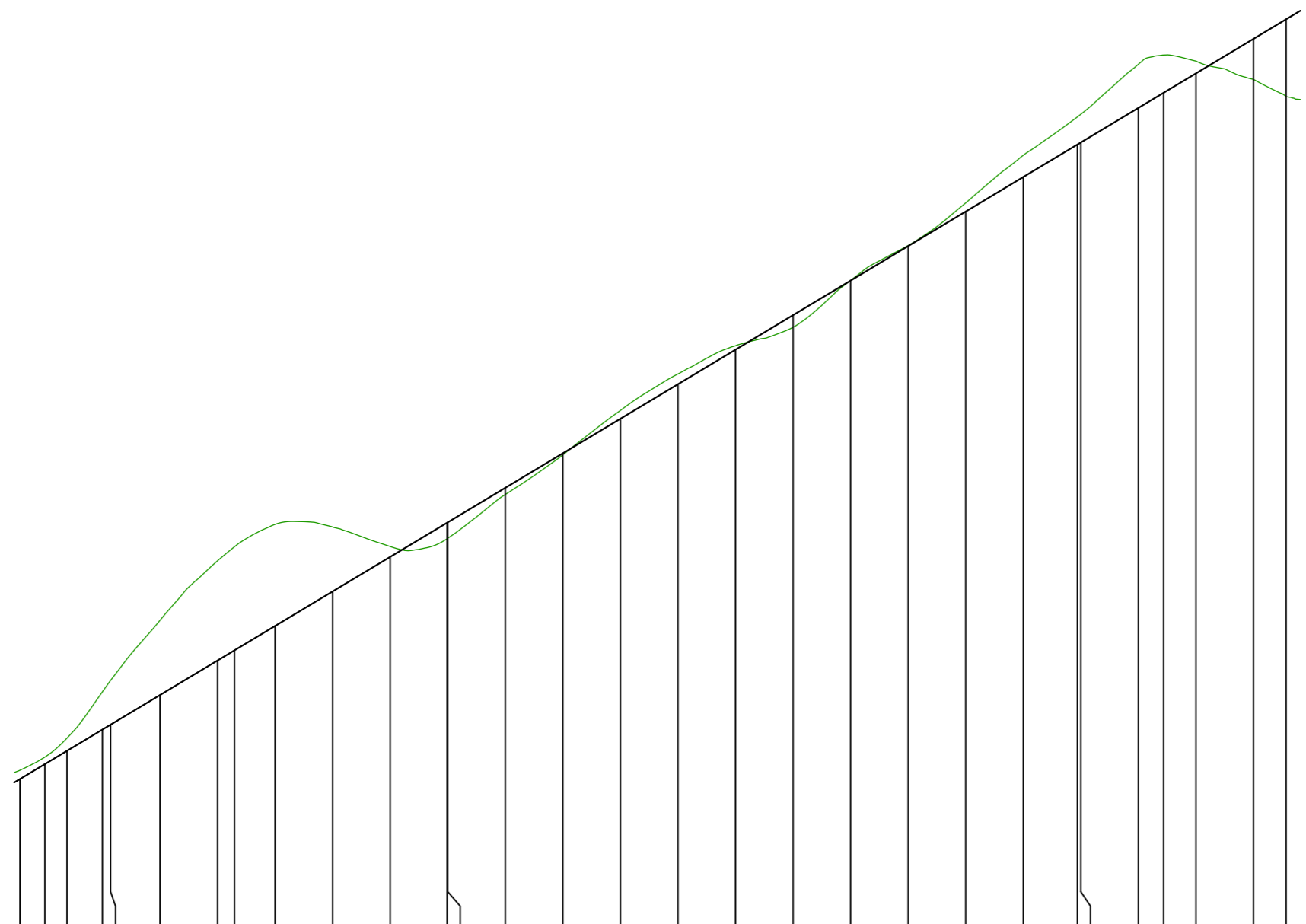
ROAD LONGSECTION
ROAD A - SHEET 1 of 7
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Scale: 1:1000

Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 201 LS	Revision: Date Created: B 7 Aug 2023



DATUM =216.00

CUT/FILL @ CL	0.38	0.30	0.55	1.64	1.92	3.25	4.33	4.50	4.41	2.80	0.45	-0.70	-0.69	-0.29	-0.07	0.36	0.44	0.17	-0.53	0.01	0.02	0.37	0.94	1.20	1.23	1.90	1.64	0.54	-1.76	-3.34
FINISHED SURFACE LEVELS	222.77	223.42	224.00	224.92	225.13	226.42	227.92	228.36	229.42	230.92	232.42	233.90	233.92	235.42	236.92	238.42	239.92	241.42	242.92	244.42	245.92	247.42	248.92	250.33	250.42	251.92	252.58	253.42	254.92	255.77
EXISTING SURFACE LEVELS	223.15	223.72	224.55	226.56	227.05	229.66	232.25	232.86	233.83	233.72	232.87	233.21	233.23	235.13	236.85	238.78	240.36	241.59	242.39	244.43	245.94	247.79	249.86	251.53	251.64	253.82	254.22	253.96	253.16	252.43
VERTICAL SCHEMATIC	P=15.00%																	L=455.2												
HORIZONTAL SCHEMATIC	R=-100.00 L=9.22			R=100.00 L=21.52			D=36.95m			R=-105.00 L=109.51			D=14.98m			R=33.00 L=34.07														
DISTANCE	186	190	194	200	201	210	220	223	230	240	250	260	260	270	280	290	300	310	320	330	340	350	360	369	370	380	384	390	400	406

LONGITUDINAL SECTION Road A Infracon
SCALE HORIZ=1:1000 VERT=1:250

REVISION	DETAIL	DATE

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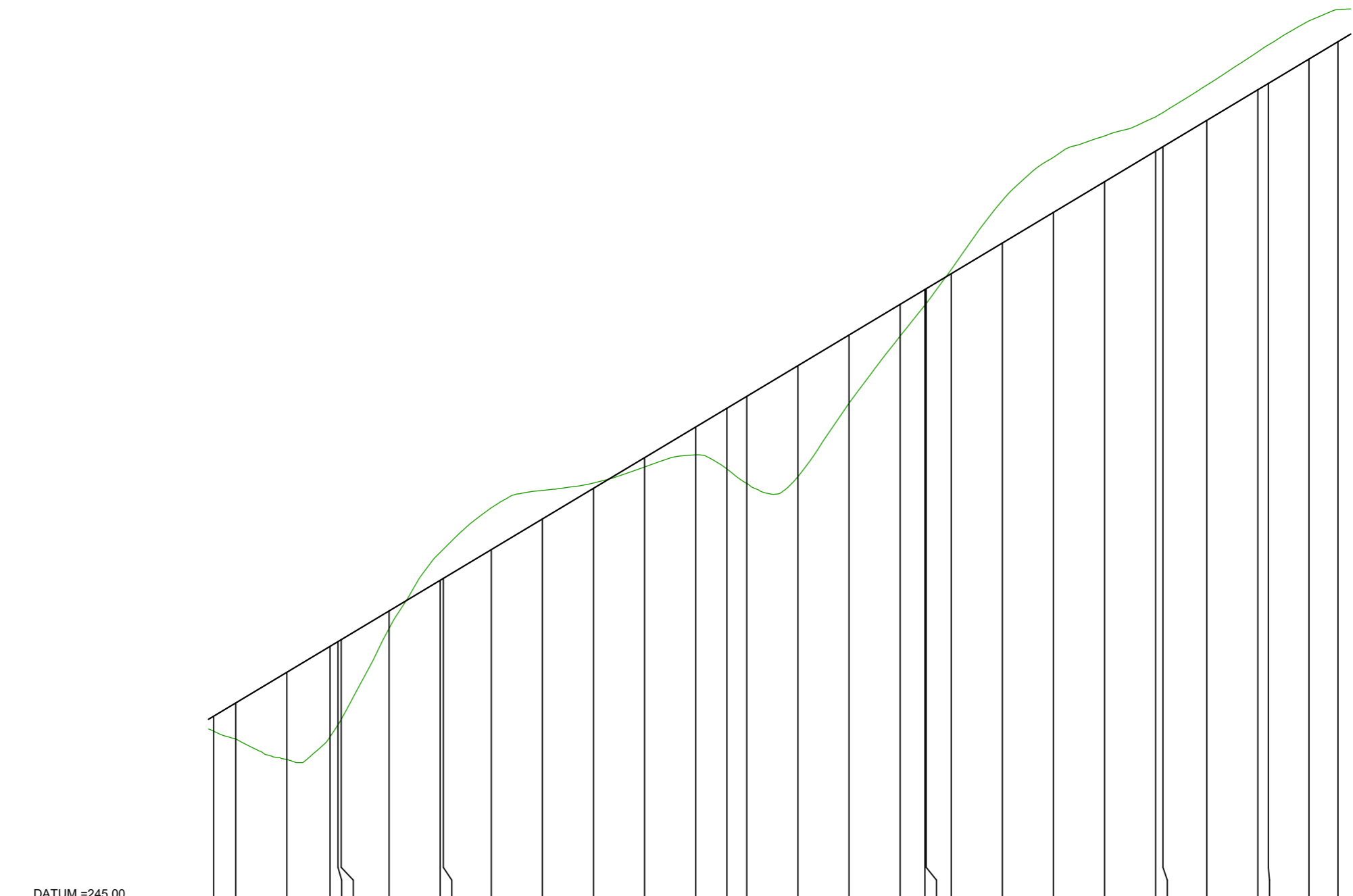
Title
ROAD LONGSECTION
ROAD A - SHEET 2 of 7
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Scale: 1:1000

Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 202 LS	Revision: Date Created: B 7 Aug 2023



CUT/FILL @ CL	-0.71	-1.76	-4.27	-4.42	-4.07	-3.91	-0.86	1.37	1.43	2.05	1.40	0.26	-0.46	-1.36	-2.96	-4.25	-5.43	-3.33	-1.55	-0.76	-0.72	0.20	2.08	2.69	2.24	1.67	1.67	1.73	1.86	1.89	1.87	1.57
FINISHED SURFACE LEVELS	254.27	254.92	256.42	257.69	257.92	258.01	259.42	260.92	261.01	262.42	263.92	265.42	266.92	268.42	269.33	269.92	271.42	272.92	274.42	275.15	275.18	275.92	277.42	278.92	280.42	281.92	282.13	283.42	284.92	285.23	286.42	287.27
EXISTING SURFACE LEVELS	253.56	253.16	252.15	253.26	253.85	254.11	258.56	262.28	262.44	264.47	265.31	265.68	266.46	267.06	266.37	265.67	265.99	269.58	272.87	274.38	274.46	276.12	279.50	281.61	282.66	283.59	283.80	285.15	286.78	287.11	288.29	288.84
VERTICAL SCHEMATIC																			P=15.00%													
HORIZONTAL SCHEMATIC	R=33.00 L=34.07		D=41.45 L=42.00		R=33.00 L=19.98		D=55.49m				R=45.00 L=38.74		D=55.49m		R=45.00 L=46.32		D=20.62m		R=45.00 L=41.90													
DISTANCE	396	400	410	418	420	421	430	440	441	450	460	470	480	490	496	500	510	520	530	535	535	540	550	560	570	580	581	590	600	602	610	616

LONGITUDINAL SECTION Road A Infracon
SCALE HORIZ=1:1000 VERT=1:250

REVISION	DETAIL	DATE

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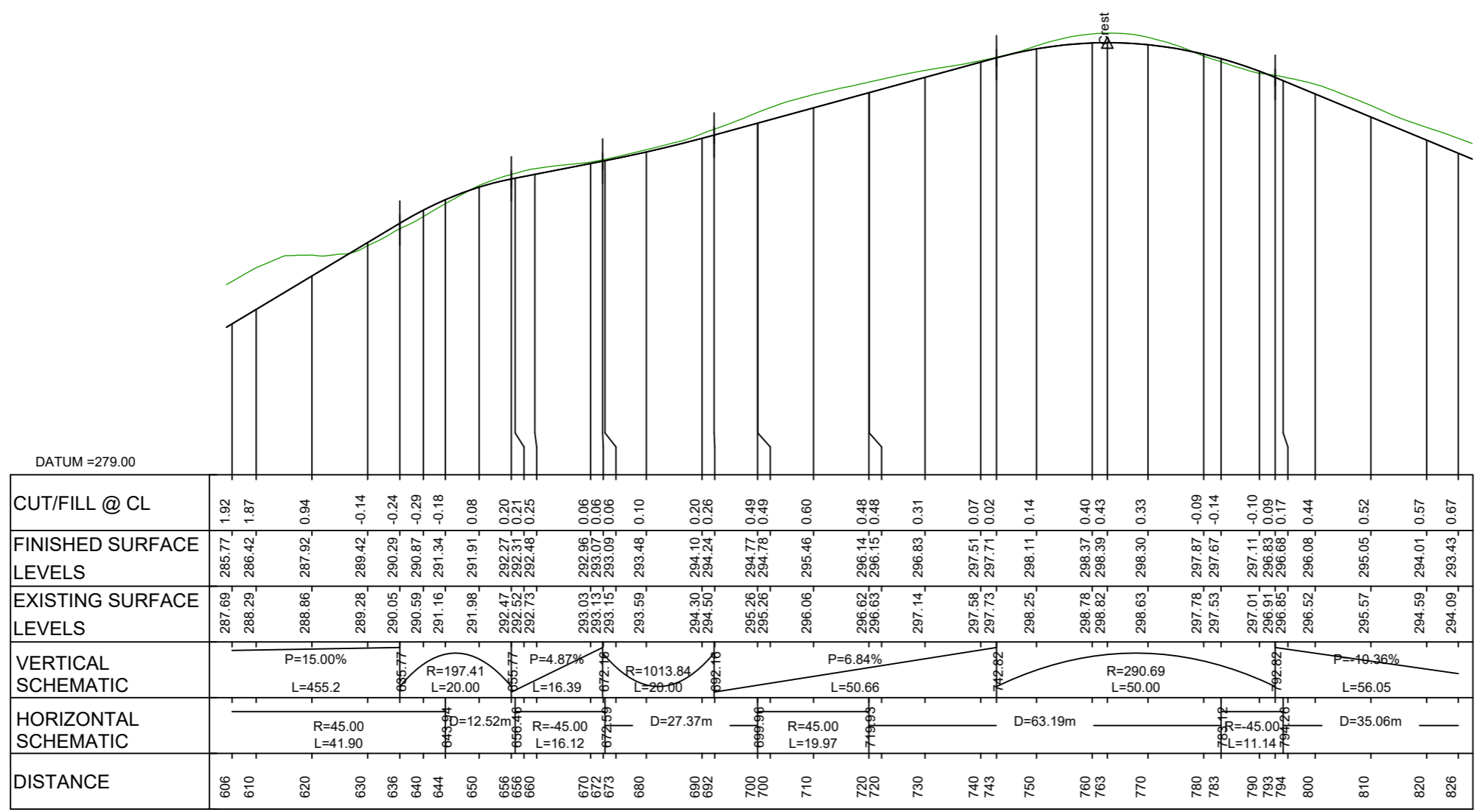
Title
ROAD LONGSECTION
ROAD A - SHEET 3 of 7
 FOR RC APPLICATION

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Scale: 1:1000

Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 203 LS	Revision: Date Created: B 7 Aug 2023



CUT/FILL @ CL	606	610	620	630	636	640	644	650	656	660	670	673	680	690	692	700	700	710	720	720	730	740	743	750	760	763	770	780	783	790	793	794	800	810	820	826
CUT/FILL @ CL	1.92	1.87	0.94	-0.14	-0.24	-0.29	-0.18	0.08	0.20	0.21	0.06	0.06	0.10	0.20	0.26	0.49	0.49	0.60	0.48	0.48	0.31	0.07	0.02	0.14	0.40	0.43	0.33	-0.09	-0.14	-0.10	0.09	0.17	0.44	0.52	0.57	0.67
FINISHED SURFACE LEVELS	285.77	286.42	287.92	289.42	290.29	290.87	291.34	291.91	292.27	292.31	292.96	293.07	293.48	294.10	294.24	294.77	294.78	295.46	296.14	296.15	296.83	297.51	297.71	298.11	298.37	298.39	298.30	297.87	297.67	297.11	296.83	296.68	296.08	295.05	294.01	293.43
EXISTING SURFACE LEVELS	287.69	288.29	288.86	289.28	290.05	290.59	291.16	291.98	292.47	292.52	293.03	293.13	293.59	294.30	294.50	295.26	295.26	296.06	296.62	296.63	297.14	297.58	297.73	298.25	298.78	298.82	298.63	297.78	297.53	297.01	296.91	296.85	296.52	295.57	294.59	294.09
VERTICAL SCHEMATIC	P=15.00% L=455.2		R=197.41 L=20.00		P=4.87% L=16.39		R=1013.84 L=20.00		P=6.84% L=50.66		R=290.69 L=50.00		P=-40.36% L=56.05																							
HORIZONTAL SCHEMATIC	R=45.00 L=41.90		D=12.52m		R=45.00 L=16.12		D=27.37m		R=45.00 L=19.97		D=63.19m		R=45.00 L=11.14		D=35.06m																					
DISTANCE	606	610	620	630	636	640	644	650	656	660	670	673	680	690	692	700	700	710	720	720	730	740	743	750	760	763	770	780	783	790	793	794	800	810	820	826

LONGITUDINAL SECTION Road A Infracon
SCALE HORIZ=1:1000 VERT=1:250

REVISION	DETAIL	DATE

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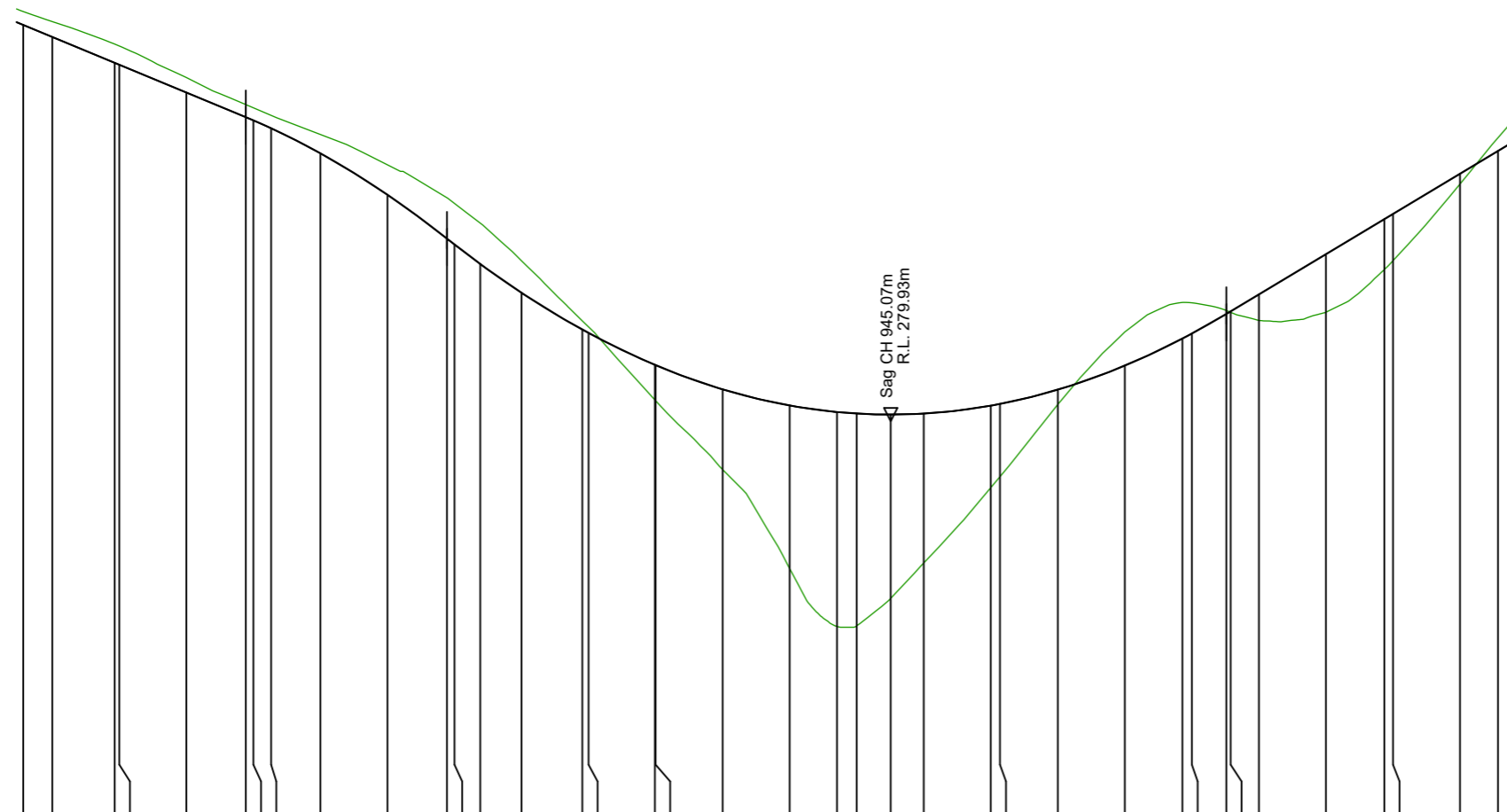
Title
ROAD LONGSECTION
ROAD A - SHEET 4 of 7
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Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 204 LS	Revision: Date Created: B 7 Aug 2023



CUT/FILL @ CL	816	820	829	830	840	849	850	853	860	870	879	880	884	890	899	900	910	910	920	930	937	940	945	950	960	961	970	980	989	990	995	996	1000	1010	1019	1020	1030	1036		
CUT/FILL @ CL	0.50	0.57	0.70	0.70	0.56	0.47	0.47	0.48	0.70	1.12	1.52	1.53	1.53	1.19	0.33	0.23	-1.30	-1.32	-2.99	-6.08	-7.99	-7.91	-6.85	-5.57	-3.06	-2.71	-0.55	1.26	1.35	1.15	0.13	-0.03	-0.98	-2.17	-1.88	-1.74	-0.38	0.49		
FINISHED SURFACE LEVELS	294.46	294.01	293.05	292.98	291.94	291.02	290.90	290.61	289.67	288.13	286.49	286.27	285.54	284.47	283.10	282.97	281.78	281.77	280.87	280.27	280.02	279.97	279.93	279.96	280.26	280.33	280.86	281.76	282.76	282.95	283.68	283.74	283.44	283.74	285.91	287.22	287.41	288.91	289.76	
EXISTING SURFACE LEVELS	294.96	294.59	293.75	293.68	292.50	291.49	291.37	291.09	290.38	289.24	288.02	287.81	287.07	285.67	283.42	283.20	280.48	280.45	277.88	274.18	272.03	272.05	273.08	274.40	277.21	277.61	280.31	283.01	284.11	284.10	283.81	283.74	283.44	283.74	285.74	285.34	285.67	288.53	290.26	
VERTICAL SCHEMATIC	P=-10.36% L=56.05		R=316.64 L=30.00		P=-10.36% L=56.05		R=333.78 L=116.27		P=15.00% L=151.87		P=-10.36% L=56.05		R=316.64 L=30.00		P=-10.36% L=56.05		R=333.78 L=116.27		P=15.00% L=151.87		P=-10.36% L=56.05		R=316.64 L=30.00		P=-10.36% L=56.05		R=333.78 L=116.27		P=15.00% L=151.87		P=-10.36% L=56.05		R=316.64 L=30.00		P=-10.36% L=56.05		R=333.78 L=116.27		P=15.00% L=151.87	
HORIZONTAL SCHEMATIC	D=35.06m		R=45.00 L=23.33		D=31.2m		R=45.00 L=15.22		D=10.83m		R=15.00 L=27.16		D=24.31m		R=15.00 L=27.22		D=19.16m		R=15.00 L=22.93		D=19.16m		R=15.00 L=22.93		D=19.16m		R=15.00 L=22.93		D=19.16m		R=15.00 L=22.93		D=19.16m		R=15.00 L=22.93		D=19.16m			
DISTANCE	816	820	829	830	840	849	850	853	860	870	879	880	884	890	899	900	910	910	920	930	937	940	945	950	960	961	970	980	989	990	995	996	1000	1010	1019	1020	1030	1036		

LONGITUDINAL SECTION Road A Infracon
SCALE HORIZ=1:1000 VERT=1:250

REVISION	DETAIL	DATE

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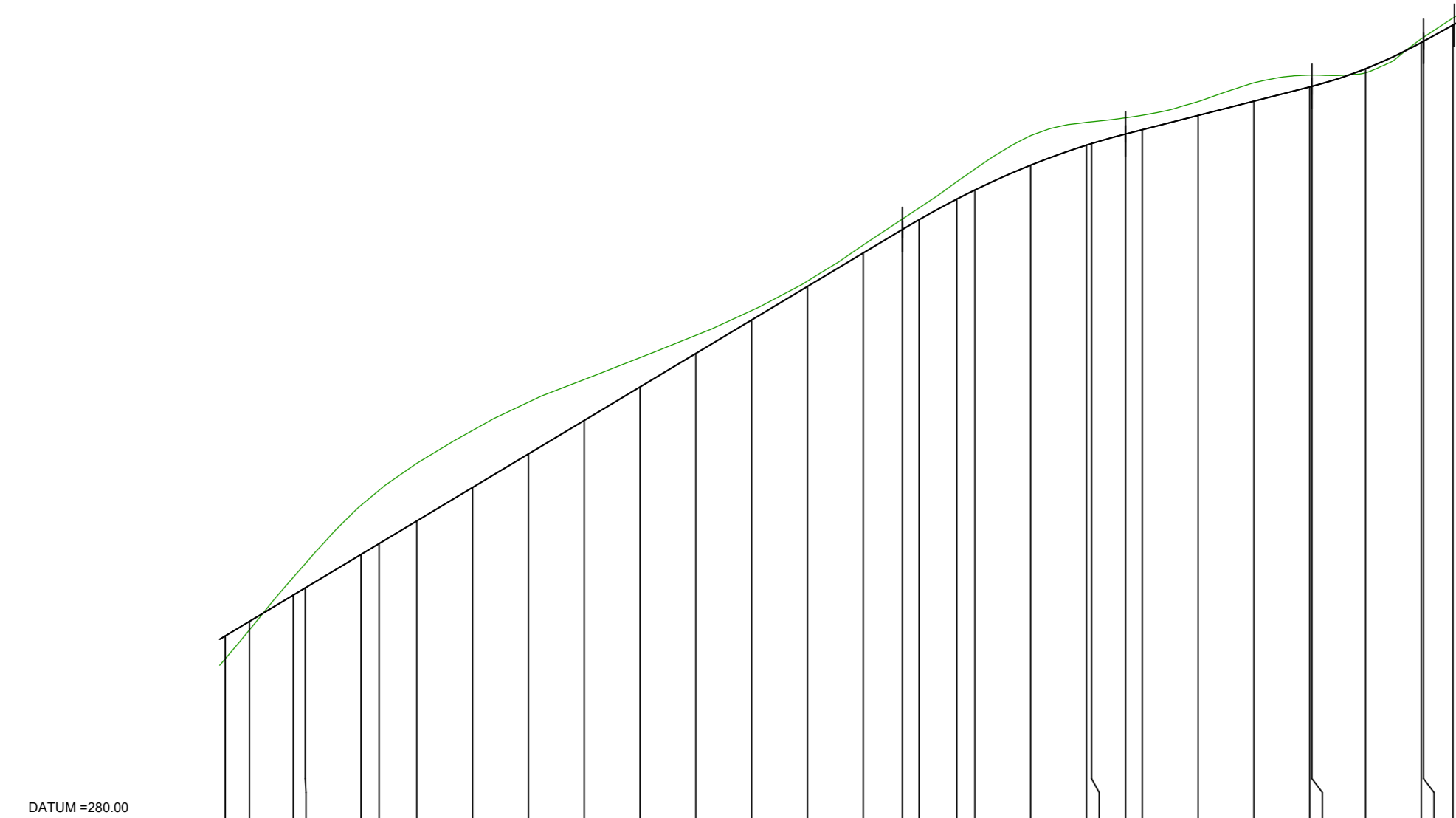
Title
ROAD LONGSECTION
ROAD A - SHEET 5 of 7
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Scale: 1:1000

Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 205 LS	Revision: Date Created: B 7 Aug 2023



CUT/FILL @ CL	-1.02	-0.38	0.80	1.08	2.20	2.39	2.58	2.56	2.32	1.83	1.31	0.81	0.42	0.24	0.36	0.47	0.53	0.78	0.94	1.32	1.02	0.97	0.73	0.65	0.62	0.82	0.53	0.51	-0.18	0.17	0.18	0.32	
FINISHED SURFACE LEVELS	288.26	288.91	290.09	290.41	291.91	292.40	293.41	294.91	296.41	297.91	299.41	300.91	302.41	303.91	305.41	306.46	306.90	307.82	308.23	309.34	310.24	310.24	310.31	310.74	310.93	311.57	312.21	312.85	312.87	313.66	314.83	314.89	315.62
EXISTING SURFACE LEVELS	287.24	288.53	290.89	291.49	294.11	294.79	295.99	297.47	298.73	299.74	300.73	301.72	302.84	304.15	305.77	306.93	307.43	308.60	309.17	310.67	311.26	311.28	311.58	311.58	312.19	313.03	313.38	313.38	313.48	315.01	315.07	315.93	
VERTICAL SCHEMATIC	<p>P=15.00% L=151.87</p> <p>R=464.20 L=40.00</p> <p>P=6.38% L=33.39</p> <p>R=269.59 L=26.00</p> <p>P=3.80% L=25.53</p>																																
HORIZONTAL SCHEMATIC	<p>D=19.16m R=-30.00 L=15.38</p> <p>D=103.52m</p> <p>R=-30.00 L=24.15</p> <p>D=98.03m</p>																																
DISTANCE	1026	1030	1038	1040	1050	1053	1060	1070	1080	1090	1100	1110	1120	1130	1140	1147	1150	1157	1160	1170	1180	1181	1187	1190	1200	1210	1220	1220	1230	1240	1240	1246	

LONGITUDINAL SECTION Road A Infracon
SCALE HORIZ=1:1000 VERT=1:250

REVISION	DETAIL	DATE

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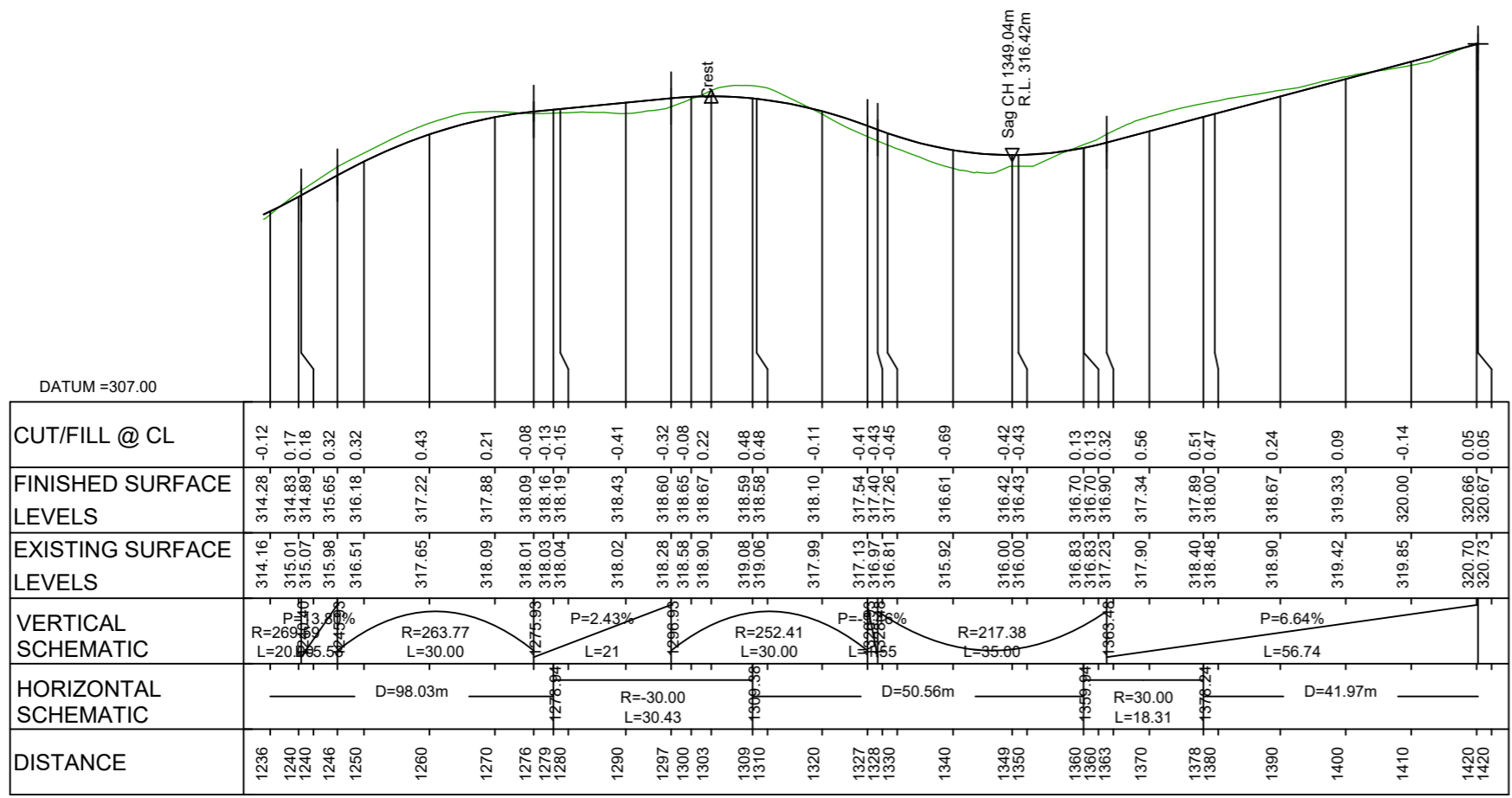
Title
ROAD LONGSECTION
ROAD A - SHEET 6 of 7
 FOR RC APPLICATION

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Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 206 LS	Revision: Date Created: B 7 Aug 2023



CUT/FILL @ CL	-0.12	0.17	0.18	0.32	0.32	0.43	0.21	-0.08	-0.13	-0.15	-0.41	-0.32	-0.08	0.22	0.48	0.48	-0.11	-0.41	-0.43	-0.43	0.13	0.13	0.32	0.56	0.51	0.47	0.24	0.09	-0.14	0.05	0.05		
FINISHED SURFACE LEVELS	314.28	314.83	314.89	315.65	316.18	317.22	317.88	318.09	318.16	318.19	318.43	318.60	318.65	318.67	318.59	318.58	318.10	317.54	317.40	316.42	316.43	316.70	316.70	316.90	317.34	317.89	318.00	318.67	319.33	320.00	320.66	320.67	
EXISTING SURFACE LEVELS	314.16	315.01	315.07	315.98	316.51	317.65	318.09	318.01	318.03	318.04	318.02	318.28	318.58	318.90	319.08	319.06	317.99	317.13	316.97	316.00	316.00	316.83	316.83	317.23	317.90	318.40	318.48	318.90	319.42	319.85	320.70	320.73	
VERTICAL SCHEMATIC	P=13.40% R=269.59 L=20.65		P=2.43% R=263.77 L=30.00				P=2.43% L=21		R=252.41 L=30.00		P=2.43% L=35		R=217.38 L=35.00		P=6.64% L=56.74																		
HORIZONTAL SCHEMATIC	D=98.03m		R=30.00 L=30.43		D=50.56m		R=30.00 L=18.31		D=41.97m																								
DISTANCE	1236	1240	1240	1246	1250	1260	1270	1276	1279	1280	1290	1297	1300	1303	1309	1310	1320	1327	1328	1330	1340	1349	1350	1360	1363	1370	1378	1380	1390	1400	1410	1420	1420

LONGITUDINAL SECTION Road A Infracon
SCALE HORIZ=1:1000 VERT=1:250

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Title

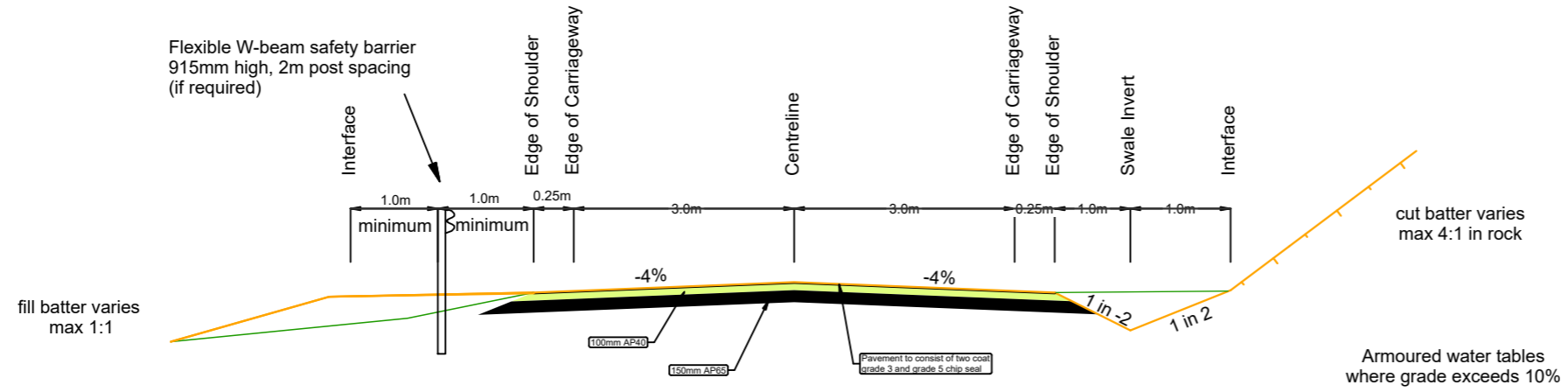
ROAD LONGSECTION
ROAD A - SHEET 7 of 7
FOR RC APPLICATION

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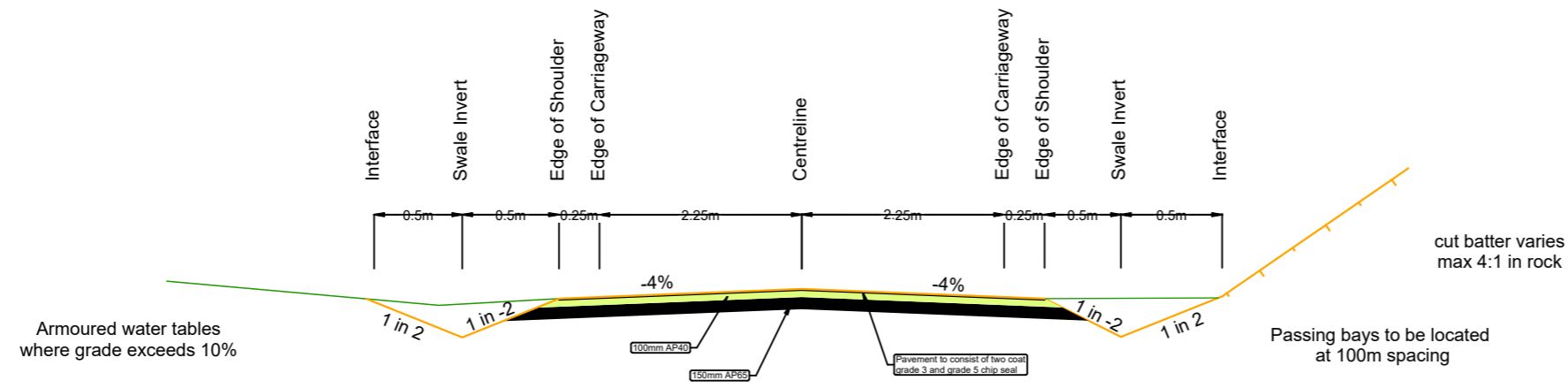
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Job No: 6178	Drawn By: MJS	Datum: NZVD2016
Drawing No: W1699	Sheet No: 207 LS	Revision: Date Created: B 7 Aug 2023

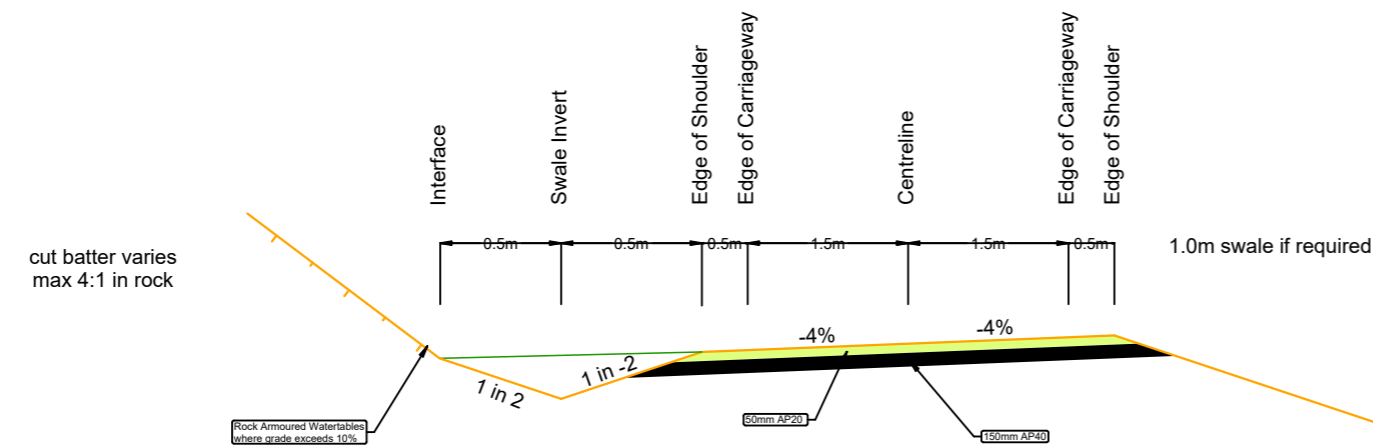


Typical Road Section 6.0m Carriageway
Road to vest
Legal width 20.00m

NOTE: Final pavement design
subject to site specific CBR testing



Typical Road Section 4.5m Carriageway
Shared Right of Way
Legal width 10.00m



Typical Road Section 3.0m Carriageway - Single Crossfall
Unsealed Private Driveway

REVISION	DETAIL	DATE

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Title
**TYPICAL CROSS SECTIONS
 SHEET 1 of 1**
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