





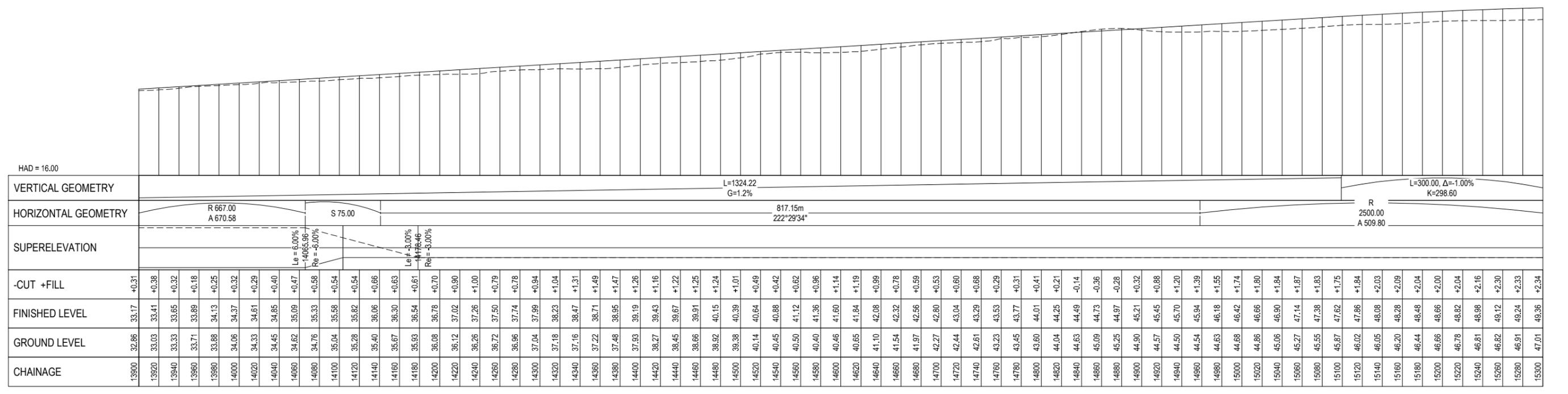


PLAN  
SCALE 1 : 4000

CHAINAGE	12500	12520	12540	12560	12580	12600	12620	12640	12660	12680	12700	12720	12740	12760	12780	12800	12820	12840	12860	12880	12900	12920	12940	12960	12980	13000	13020	13040	13060	13080	13100	13120	13140	13160	13180	13200	13220	13240	13260	13280	13300	13320	13340	13360	13380	13400	13420	13440	13460	13480	13500	13520	13540	13560	13580	13600	13620	13640	13660	13680	13700	13720	13740	13760	13780	13800	13820	13840	13860	13880	13900																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
VERTICAL GEOMETRY	L=292.50, Δ=0.60% K=487.49										L=869.22 G=0.3%										L=250.00, Δ=0.90% K=276.34										L=1324.22 G=1.2%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
HORIZONTAL GEOMETRY	R 1800.00 A 1297.62										S 37.50 143.47m 152°49'51"										S 75.00 10.73m 66°08'57"										S 75.00 207.56m 158°26'50"										R 667.00 A 670.58																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
SUPERELEVATION											Le = 3.00% Re = -3.00%										Le = 3.00% Re = -3.00%										Le = 6.00% Re = -6.00%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
-CUT +FILL	+1.32	+1.38	+1.92	+2.13	+2.41	+2.73	+3.04	+3.35	+3.34	+3.52	+3.34	+2.84	+2.50	+2.38	+2.34	+2.47	+2.68	+3.03	+3.50	+4.42	+4.00	+3.78	+3.79	+3.69	+3.67	+3.69	+3.73	+3.64	+3.51	+3.41	+3.33	+3.25	+2.88	+2.79	+2.68	+2.43	+2.27	+2.12	+1.93	+1.69	+1.04	+1.36	+1.37	+1.36	+1.21	+1.04	+0.96	+0.88	+0.81	+0.78	+0.68	+0.94	+0.90	+0.88	+0.94	+1.04	+1.02	+1.00	+0.96	+0.92	+0.87	+0.76	+0.81	+0.87	+0.99	+0.89	+0.61	+0.53	+0.35	+0.31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
FINISHED LEVEL	26.95	26.95	26.96	26.98	27.00	27.03	27.08	27.13	27.18	27.24	27.30	27.36	27.42	27.48	27.54	27.60	27.66	27.72	27.78	27.84	27.90	27.96	28.02	28.08	28.14	28.20	28.26	28.32	28.38	28.44	28.50	28.56	28.62	28.68	28.74	28.80	28.86	28.92	28.98	29.04	29.10	29.16	29.22	29.28	29.34	29.40	29.46	29.52	29.58	29.64	29.70	29.76	29.82	29.88	29.94	30.00	30.06	30.12	30.18	30.24	30.30	30.36	30.42	30.48	30.54	30.60	30.66	30.72	30.78	30.84	30.90	30.96	31.02	31.08	31.14	31.20	31.26	31.32	31.38	31.44	31.50	31.56	31.62	31.68	31.74	31.80	31.86	31.92	31.98	32.04	32.10	32.16	32.22	32.28	32.34	32.40	32.46	32.52	32.58	32.64	32.70	32.76	32.82	32.88	32.94	33.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
GROUND LEVEL	25.63	25.57	25.04	24.84	24.59	24.30	24.04	23.77	23.84	23.73	23.96	24.52	24.92	25.10	25.21	25.13	24.98	24.69	24.28	23.43	23.90	24.19	24.24	24.39	24.47	24.51	24.53	24.68	24.88	25.03	25.17	25.31	25.74	25.89	26.06	26.37	26.59	26.81	27.05	27.35	27.80	28.06	28.20	28.29	28.42	28.56	28.70	28.84	28.92	29.09	29.19	29.28	29.35	29.51	29.72	29.94	30.18	30.50	30.85	31.18	31.52	31.83	32.16	32.57	32.93	33.29	33.65	34.01	34.37	34.73	35.09	35.45	35.81	36.17	36.53	36.89	37.25	37.61	37.97	38.33	38.69	39.05	39.41	39.77	40.13	40.49	40.85	41.21	41.57	41.93	42.29	42.65	43.01	43.37	43.73	44.09	44.45	44.81	45.17	45.53	45.89	46.25	46.61	46.97	47.33	47.69	48.05	48.41	48.77	49.13	49.49	49.85	50.21	50.57	50.93	51.29	51.65	52.01	52.37	52.73	53.09	53.45	53.81	54.17	54.53	54.89	55.25	55.61	55.97	56.33	56.69	57.05	57.41	57.77	58.13	58.49	58.85	59.21	59.57	59.93	60.29	60.65	61.01	61.37	61.73	62.09	62.45	62.81	63.17	63.53	63.89	64.25	64.61	64.97	65.33	65.69	66.05	66.41	66.77	67.13	67.49	67.85	68.21	68.57	68.93	69.29	69.65	70.01	70.37	70.73	71.09	71.45	71.81	72.17	72.53	72.89	73.25	73.61	73.97	74.33	74.69	75.05	75.41	75.77	76.13	76.49	76.85	77.21	77.57	77.93	78.29	78.65	79.01	79.37	79.73	80.09	80.45	80.81	81.17	81.53	81.89	82.25	82.61	82.97	83.33	83.69	84.05	84.41	84.77	85.13	85.49	85.85	86.21	86.57	86.93	87.29	87.65	88.01	88.37	88.73	89.09	89.45	89.81	90.17	90.53	90.89	91.25	91.61	91.97	92.33	92.69	93.05	93.41	93.77	94.13	94.49	94.85	95.21	95.57	95.93	96.29	96.65	97.01	97.37	97.73	98.09	98.45	98.81	99.17	99.53	99.89	100.25	100.61	100.97	101.33	101.69	102.05	102.41	102.77	103.13	103.49	103.85	104.21	104.57	104.93	105.29	105.65	106.01	106.37	106.73	107.09	107.45	107.81	108.17	108.53	108.89	109.25	109.61	109.97	110.33	110.69	111.05	111.41	111.77	112.13	112.49	112.85	113.21	113.57	113.93	114.29	114.65	115.01	115.37	115.73	116.09	116.45	116.81	117.17	117.53	117.89	118.25	118.61	118.97	119.33	119.69	120.05	120.41	120.77	121.13	121.49	121.85	122.21	122.57	122.93	123.29	123.65	124.01	124.37	124.73	125.09	125.45	125.81	126.17	126.53	126.89	127.25	127.61	127.97	128.33	128.69	129.05	129.41	129.77	130.13	130.49	130.85	131.21	131.57	131.93	132.29	132.65	133.01	133.37	133.73	134.09	134.45	134.81	135.17	135.53	135.89	136.25	136.61	136.97	137.33	137.69	138.05	138.41	138.77	139.13	139.49	139.85	140.21	140.57	140.93	141.29	141.65	142.01	142.37	142.73	143.09	143.45	143.81	144.17	144.53	144.89	145.25	145.61	145.97	146.33	146.69	147.05	147.41	147.77	148.13	148.49	148.85	149.21	149.57	149.93	150.29	150.65	151.01	151.37	151.73	152.09	152.45	152.81	153.17	153.53	153.89	154.25	154.61	154.97	155.33	155.69	156.05	156.41	156.77	157.13	157.49	157.85	158.21	158.57	158.93	159.29	159.65	160.01	160.37	160.73	161.09	161.45	161.81	162.17	162.53	162.89	163.25	163.61	163.97	164.33	164.69	165.05	165.41	165.77	166.13	166.49	166.85	167.21	167.57	167.93	168.29	168.65	169.01	169.37	169.73	170.09	170.45	170.81	171.17	171.53	171.89	172.25	172.61	172.97	173.33	173.69	174.05	174.41	174.77	175.13	175.49	175.85	176.21	176.57	176.93	177.29	177.65	178.01	178.37	178.73	179.09	179.45	179.81	180.17	180.53	180.89	181.25	181.61	181.97	182.33	182.69	183.05	183.41	183.77	184.13	184.49	184.85	185.21	185.57	185.93	186.29	186.65	187.01	187.37	187.73	188.09	188.45	188.81	189.17	189.53	189.89	190.25	190.61	190.97	191.33	191.69	192.05	192.41	192.77	193.13	193.49	193.85	194.21	194.57	194.93	195.29	195.65	196.01	196.37	196.73	197.09	197.45	197.81	198.17	198.53	198.89	199.25	199.61	200.01	200.37	200.73	201.09	201.45	201.81	202.17	202.53	202.89	203.25	203.61	203.97	204.33	204.69	205.05	205.41	205.77	206.13	206.49	206.85	207.21	207.57	207.93	208.29	208.65	209.01	209.37	209.73	210.09	210.45	210.81	211.17	211.53	211.89	212.25	212.61	212.97	213.33	213.69	214.05	214.41	214.77	215.13	215.49	215.85	216.21	216.57	216.93	217.29	217.65	218.01	218.37	218.73	219.09	219.45	219.81	220.17	220.53	220.89	221.25	221.61	221.97	222.33	222.69	223.05	223.41	223.77	224.13	224.49	224.85	225.21	225.57	225.93	226.29	226.65	227.01	227.37	227.73	228.09	228.45	228.81	229.17	229.53	229.89	230.25	230.61	230.97	231.33	231.69	232.05	232.41	232.77	233.13	233.49	233.85	234.21	234.57	234.93	235.29	235.65	236.01	236.37	236.73	237.09	237.45	237.81	238.17	238.53	238.89	239.25	239.61	240.01	240.37	240.73	241.09	241.45	241.81	242.17	242.53	242.89	243.25	243.61	243.97	244.33	244.69	245.05	245.41	245.77	246.13	246.49	246.85	247.21	247.57	247.93	248.29	248.65	249.01	249.37	249.73	250.09	250.45	250.81	251.17	251.53	251.89	252.25	252.61	252.97	253.33	253.69	254.05	254.41	254.77	255.13	255.49	255.85	256.21	256.57	256.93	257.29	257.65	258.01	258.37	258.73	259.09	259.45	259.81	260.17	260.53	260.89	261.25	261.61	261.97	262.33	262.69	263.05	263.41	263.77	264.13	264.49	264.85	265.21	265.57	265.93	266.29	266.65	267.01	267.37	267.73	268.09	268.45	268.81	269.17	269.53	269.89	270.25	270.61	270.97	271.33	271.69	272.05	272.41	272.77	273.13	273.49	273.85	274.21	274.57	274.93	275.29	275.65	276.01	276.37	276.73	277.09	277.45	277.81	278.17	278.53	278.89	279.25	279.61	280.01	280.37	280.73	281.09	281.45	281.81	282.17	282.53	282.89	283.25	283.61	283.97	284.33	284.69	285.05	285.41	285.77	286.13	286.49	286.85	287.21	287.57	287.93	288.29	288.65	289.01	289.37	289.73	290.09	290.45	290.81	291.17	291.53	291.89	292.25	292.61	292.97	293.33	293.69	294.05	294.41	294.77	295.13	295.49	295.85	296.21	296.57	296.93	297.29	297.65	298.01	298.37	298.73	299.09	299.45	299.81	300.17	300.53	300.89	301.25	301.61	301.97	302.33	302.69	303.05	303.41	303.77	304.13	304.49	304.85	305.21	305.57	305.93	306.29	306.65	307.01	307.37	307.73	308.09	308.45	308.81	309.17	309.53	309.89	310.25	310.61	310.97	311.33	311.69	312.05	312.41	312.77	313.13	313.49	313.85	314.21	314.57	314.93	315.29	315.65	316.01	316.37	316.73	317.09	317.45	317.81	318.17	318.53	318.89	319.25	319.61	320.01	320.37	320.73	321.09



LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE



LONGSECTION  
SCALE 1 : 4000H 1 : 800V



REV	DESCRIPTION	DATE	BY	CHK	APP
E	DESIGNATION UPDATED - ISSUED FOR RMA CONSENT	29.11.23	MN	GL	JP
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	18.10.22	MH	JP	JP
C	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP
B	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP
A	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP

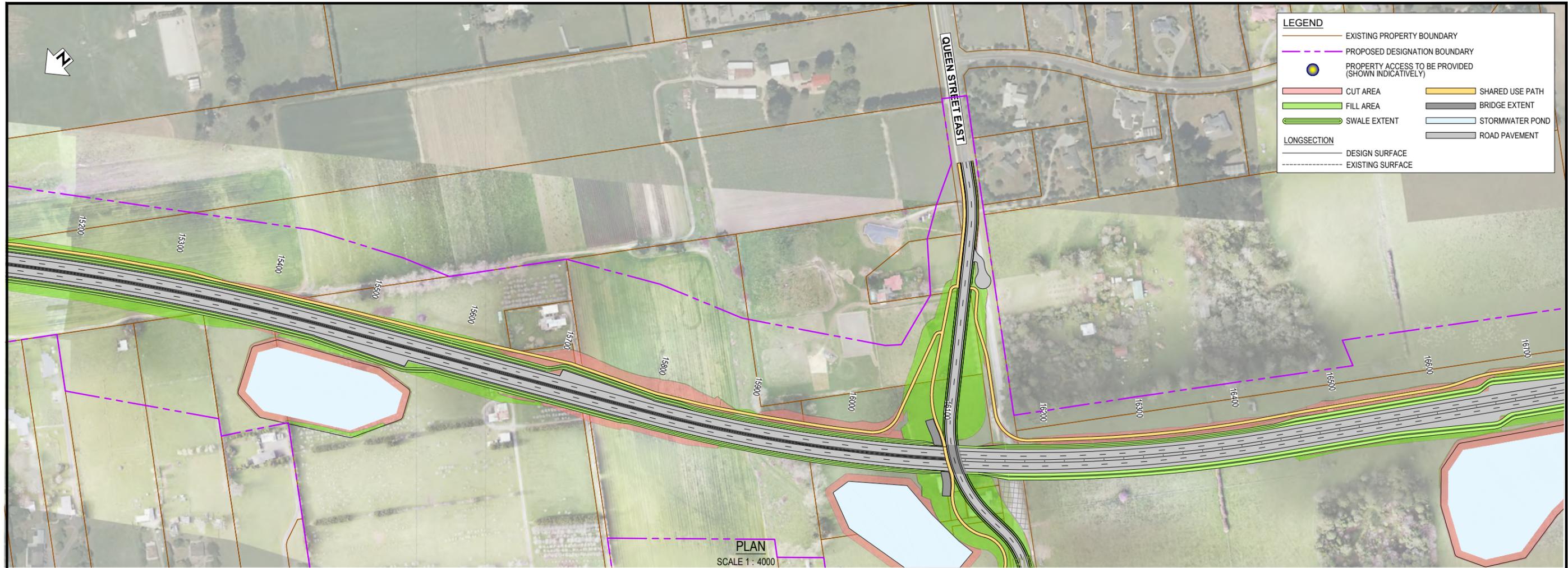
ROLE	NAME	DATE
SURVEYED		
DESIGNED	Steve Muller	30.11.21
DRAWN	Steve Muller	30.11.21
CAD REVIEW	Steve Sutton	08.12.21
DESIGN CHECK	Jamie Povall	07.12.21
DESIGN CHECK	Keith Weale	14.04.22
APPROVED	Jon England	29.11.23



Client: WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT

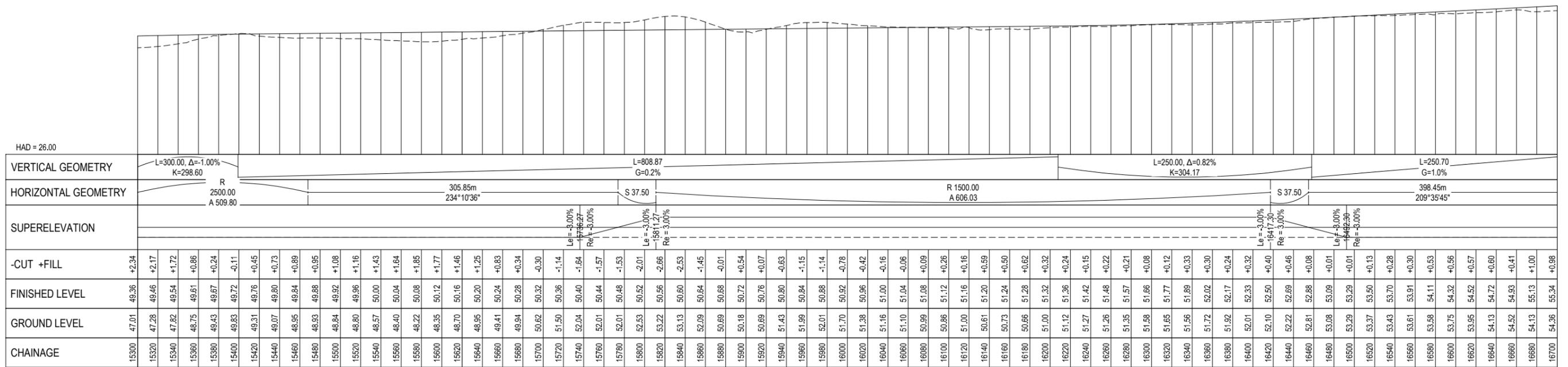
PLAN AND LONG SECTION  
SHEET 4

Status Stamp	<b>FOR CONSENT</b>
Date Stamp	29.11.23
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1504
Rev.	E



LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE

PLAN  
SCALE 1 : 4000



LONGSECTION  
SCALE 1 : 4000H 1 : 800V



REV	DESCRIPTION	DATE	BY	CHK	APP
E	DESIGNATION UPDATED - ISSUED FOR RMA CONSENT	29.11.23	MIN	GL	JP
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	10.10.22	MIN	JP	JP
C	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP
B	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP
A	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP

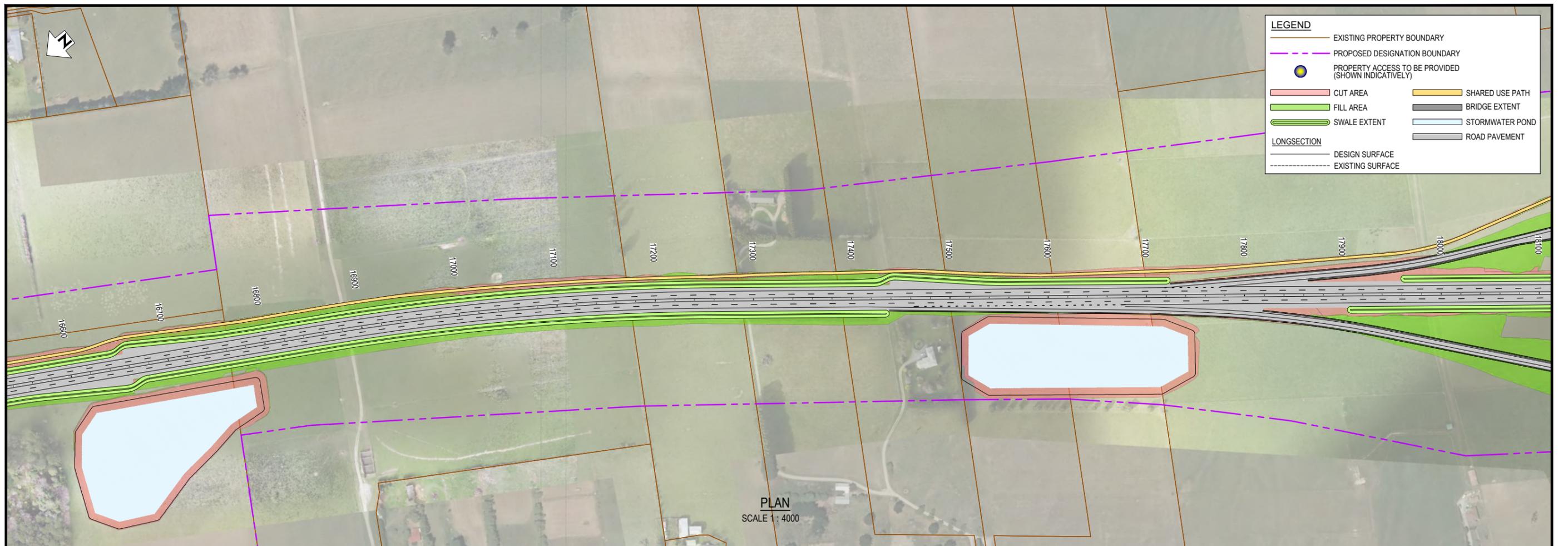
ROLE	NAME	DATE
SURVEYED		
DESIGNED	Steve Muller	30.11.21
DRAWN	Steve Muller	30.11.21
CAD REVIEW	Steve Sutton	08.12.21
DESIGN CHECK	Jamie Powell	07.12.21
DESIGN REVIEW	Keith Weale	14.04.22
APPROVED	Jon England	29.11.23
PROF REGISTRATION:		



WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
PLAN AND LONG SECTION  
SHEET 5

NOT FOR CONSTRUCTION

<b>FOR CONSENT</b>	
Date Stamp	29.11.23
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1505
Rev.	E



LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE

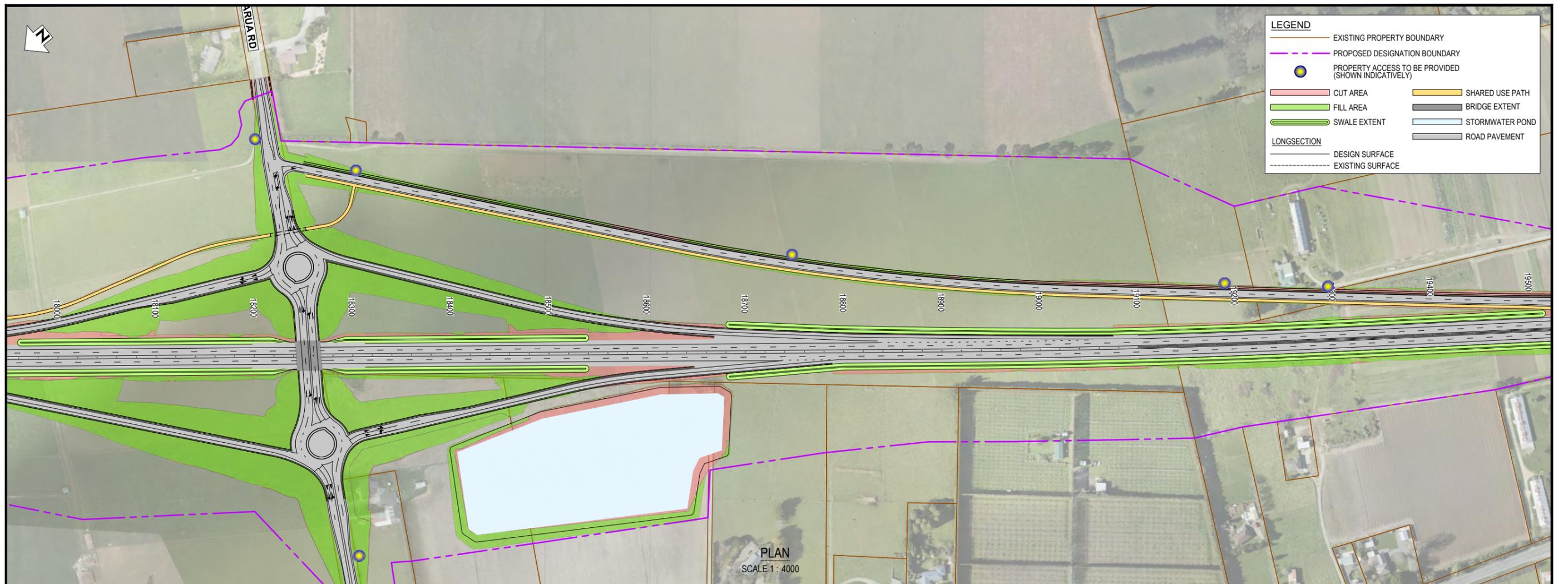
CHAINAGE	16700	16720	16740	16760	16780	16800	16820	16840	16860	16880	16900	16920	16940	16960	16980	17000	17020	17040	17060	17080	17100	17120	17140	17160	17180	17200	17220	17240	17260	17280	17300	17320	17340	17360	17380	17400	17420	17440	17460	17480	17500	17520	17540	17560	17580	17600	17620	17640	17660	17680	17700	17720	17740	17760	17780	17800	17820	17840	17860	17880	17900	17920	17940	17960	17980	18000	18020	18040	18060	18080	18100
<b>VERTICAL GEOMETRY</b>	L=250.70 G=1.0%		L=77.84 G=1.0%		L=500.00, Δ=-0.82% K=608.34												L=955.34 G=0.2%																																																						
<b>HORIZONTAL GEOMETRY</b>	398.45m 209°35'45"		R 2500.00 A 400.95												1653.72m 218°47'06"																																																								
<b>SUPERELEVATION</b>																																																																							
<b>-CUT +FILL</b>	+0.98	+0.94	+1.11	+1.14	+1.20	+1.08	+1.51	+1.29	+1.42	+1.42	+1.23	+1.09	+1.00	+0.87	+0.62	+0.52	+0.44	+0.37	+0.33	+0.39	+0.40	+0.54	+0.53	+0.52	+0.51	+0.86	+0.75	+0.71	+0.77	+0.97	+0.97	+1.07	+1.17	+1.23	+1.07	+0.91	+0.97	+1.22	+1.09	+0.88	+0.62	+0.31	+0.22	+0.18	+0.01	-0.15	-0.15	-0.03	-0.08	-0.19	-0.10	-0.18	-0.09	-0.14	-0.33	-0.37	-0.22	-0.20	-0.13	-0.07	-0.16	-0.25	-0.20	-0.05	-0.10	-0.10	+0.46	+0.29			
<b>FINISHED LEVEL</b>	55.34	55.54	55.75	55.95	56.15	56.36	56.55	56.74	56.93	57.10	57.27	57.44	57.60	57.75	57.89	58.03	58.16	58.28	58.40	58.40	58.51	58.62	58.71	58.81	58.89	58.97	59.04	59.11	59.30	59.34	59.38	59.42	59.46	59.50	59.54	59.58	59.62	59.66	59.70	59.74	59.78	59.82	59.86	59.90	59.94	59.98	60.02	60.06	60.10	60.14	60.18	60.22	60.26	60.30	60.34	60.38	60.42	60.46	60.50	60.54	60.58	60.62	60.66	60.70	60.74	60.78	60.82	60.86	60.90		
<b>GROUND LEVEL</b>	54.36	54.60	54.63	54.81	54.95	55.27	55.04	55.46	55.51	55.68	56.04	56.35	56.60	56.88	57.27	57.50	57.72	57.91	58.07	58.12	58.22	58.32	58.41	58.49	58.57	58.64	58.72	58.80	58.87	58.94	59.01	59.08	59.15	59.21	59.28	59.34	59.40	59.46	59.52	59.58	59.64	59.70	59.76	59.82	59.88	59.94	60.00	60.06	60.12	60.18	60.24	60.30	60.36	60.42	60.48	60.54	60.60	60.66	60.72	60.78	60.84	60.90									



**LONGSECTION**  
SCALE 1 : 4000H 1 : 800V

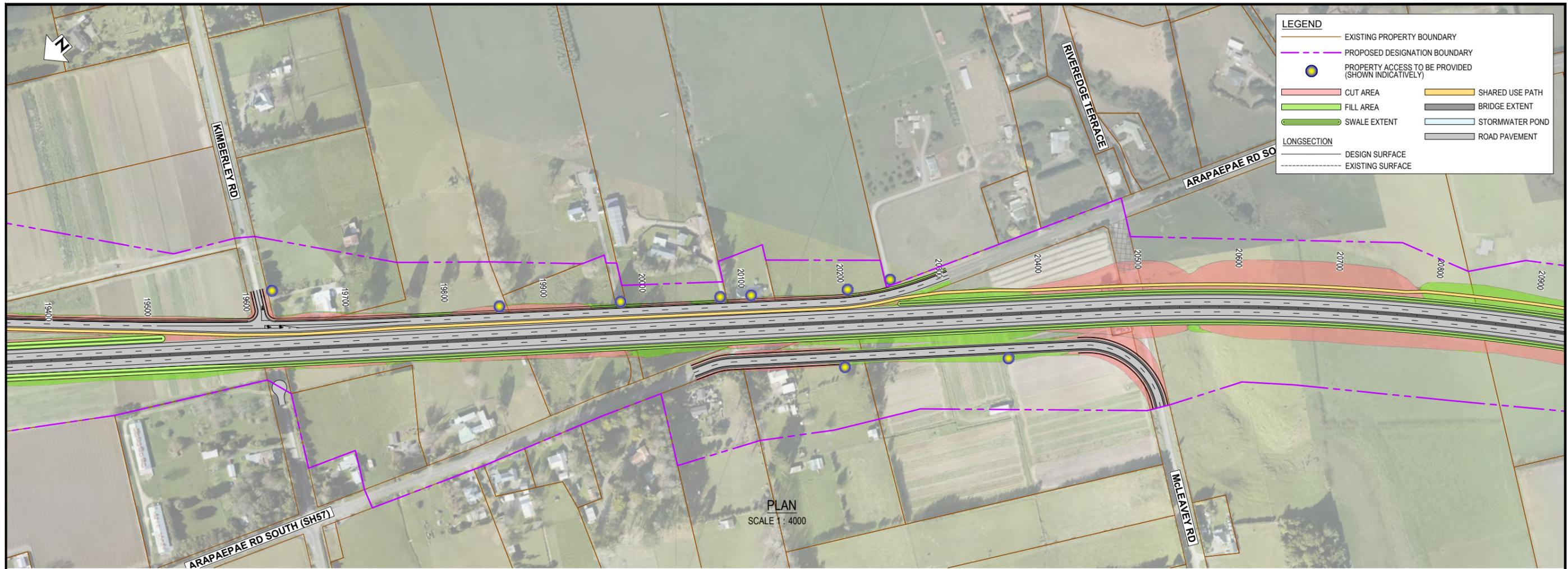
**NOT FOR CONSTRUCTION**

<table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>E</td> <td>EAST-WEST ARTERIAL DESIGN REMOVED</td> <td>19/10/22</td> </tr> <tr> <td>D</td> <td>VARIOUS UPDATES - ISSUED FOR RMA CONSENT</td> <td>18/10/22</td> </tr> <tr> <td>C</td> <td>ISSUED FOR RMA CONSENT</td> <td>19/08/22</td> </tr> <tr> <td>B</td> <td>ISSUED FOR CONSENT - DRAFT</td> <td>20/04/22</td> </tr> <tr> <td>A</td> <td>ISSUED FOR CONSENT - DRAFT</td> <td>09/12/21</td> </tr> </tbody> </table>	REV	DESCRIPTION	DATE	E	EAST-WEST ARTERIAL DESIGN REMOVED	19/10/22	D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	18/10/22	C	ISSUED FOR RMA CONSENT	19/08/22	B	ISSUED FOR CONSENT - DRAFT	20/04/22	A	ISSUED FOR CONSENT - DRAFT	09/12/21	<table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>CHK</td> <td>APP</td> </tr> </tbody> </table>	REV	DESCRIPTION	DATE	DRN	CHK	APP	<table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>30.11.21</td> <td>Steve Muller</td> <td>DESIGNED</td> </tr> <tr> <td>30.11.21</td> <td>Steve Muller</td> <td>DRAWN</td> </tr> <tr> <td>08.12.21</td> <td>Steve Sutton</td> <td>CAD REVIEW</td> </tr> <tr> <td>07.12.21</td> <td>Jamie Povall</td> <td>DESIGN CHECK</td> </tr> <tr> <td>14.04.22</td> <td>Keith Weale</td> <td>DESIGN REVIEW</td> </tr> <tr> <td>19.10.22</td> <td>Jamie Povall</td> <td>APPROVED</td> </tr> </tbody> </table>	DATE	BY	DESCRIPTION	30.11.21	Steve Muller	DESIGNED	30.11.21	Steve Muller	DRAWN	08.12.21	Steve Sutton	CAD REVIEW	07.12.21	Jamie Povall	DESIGN CHECK	14.04.22	Keith Weale	DESIGN REVIEW	19.10.22	Jamie Povall	APPROVED	<p style="text-align: center;"><b>Stantec</b></p> <p style="text-align: center;"><b>WAKA KOTAHI</b> NZ TRANSPORT AGENCY</p>	<p style="text-align: center;"><b>WAKA KOTAHI</b> OTAKI TO NORTH OF LEVIN PROJECT</p> <p style="text-align: center;"><b>PLAN AND LONG SECTION</b> SHEET 6</p>	<table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>19.10.22</td> <td></td> <td>FOR CONSENT</td> </tr> </tbody> </table> <p style="text-align: center;">AS SHOWN</p> <p style="text-align: center;">310203848-01-100-C1506</p> <p style="text-align: right;">E</p>	DATE	BY	DESCRIPTION	19.10.22		FOR CONSENT
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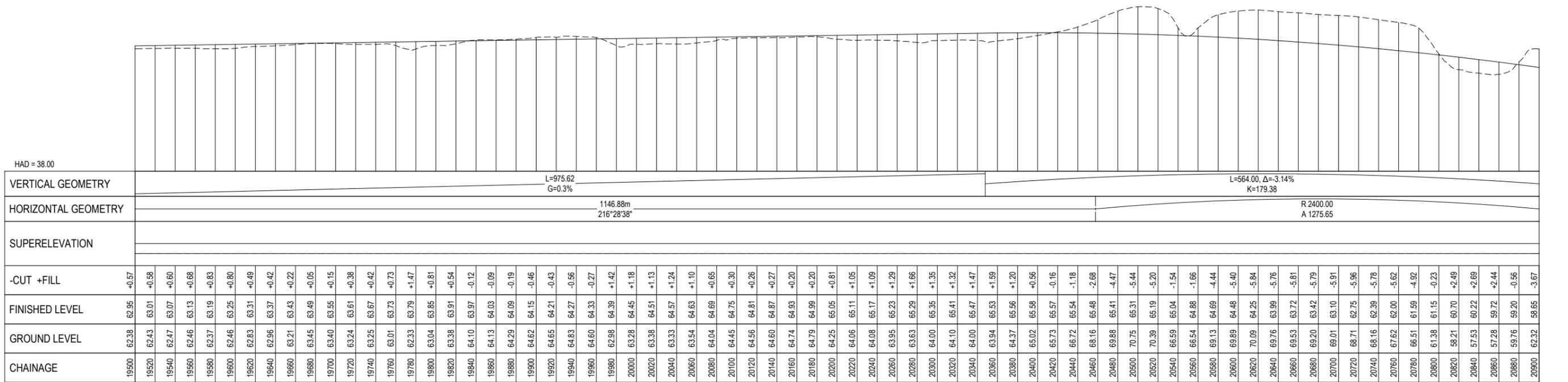
LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE

VERTICAL GEOMETRY	L=955.34 G=0.2%	L=110.00, Δ=-0.30% K=366.67	L=473.12 G=-0.1%	L=110.00, Δ=0.52% K=211.54	L=87.28 G=0.4%	L=350.00, Δ=-0.12% K=2916.67	L=975.62 G=0.3%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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-CUT +FILL	+0.29	+0.19	+0.46	+0.29	+0.47	+0.17	+0.26	+0.10	+0.07	+0.21	+0.22	+0.20	+0.22	+0.32	+0.41	+0.29	+0.36	+0.17	+0.07	-0.06	-0.23	-0.22	-0.31	-0.37	-0.67	-0.44	-0.45	-0.44	-0.37	-0.31	-0.19	-0.17	-0.33	-0.24	-0.26	-0.11	-0.07	+0.03	+0.05	+0.31	+0.28	+0.48	+0.52	+0.60	+0.74	+0.76	+0.75	+0.24	+0.33	+0.29	+0.31	+0.38	+0.38	+0.38	+0.42	+0.34	+0.54	+0.57																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
FINISHED LEVEL	60.90	60.94	60.98	61.02	61.06	61.10	61.14	61.18	61.22	61.24	61.26	61.25	61.23	61.21	61.19	61.17	61.15	61.13	61.11	61.09	61.07	61.05	61.03	61.01	60.99	60.97	60.95	60.93	60.91	60.89	60.87	60.85	60.83	60.81	60.79	60.77	60.76	60.76	60.76	60.78	60.83	60.89	61.05	61.13	61.22	61.30	61.38	61.47	61.52	61.63	61.70	61.78	61.86	61.93	62.00	62.07	62.14	62.21	62.28	62.34	62.41	62.47	62.53	62.59	62.65	62.71	62.77	62.83	62.89	62.95																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
GROUND LEVEL	60.61	60.75	60.53	60.73	60.59	60.93	60.89	61.16	61.12	61.17	61.05	61.01	60.98	60.96	60.94	60.92	60.90	60.88	60.86	60.84	60.82	60.80	60.78	60.76	60.74	60.72	60.70	60.68	60.66	60.64	60.62	60.60	60.58	60.56	60.54	60.52	60.50	60.48	60.46	60.44	60.42	60.40	60.38	60.36	60.34	60.32	60.30	60.28	60.26	60.24	60.22	60.20	60.18	60.16	60.14	60.12	60.10	60.08	60.06	60.04	60.02	60.00	59.98	59.96	59.94	59.92	59.90	59.88	59.86	59.84	59.82	59.80	59.78	59.76	59.74	59.72	59.70	59.68	59.66	59.64	59.62	59.60	59.58	59.56	59.54	59.52	59.50	59.48	59.46	59.44	59.42	59.40	59.38	59.36	59.34	59.32	59.30	59.28	59.26	59.24	59.22	59.20	59.18	59.16	59.14	59.12	59.10	59.08	59.06	59.04	59.02	59.00	58.98	58.96	58.94	58.92	58.90	58.88	58.86	58.84	58.82	58.80	58.78	58.76	58.74	58.72	58.70	58.68	58.66	58.64	58.62	58.60	58.58	58.56	58.54	58.52	58.50	58.48	58.46	58.44	58.42	58.40	58.38	58.36	58.34	58.32	58.30	58.28	58.26	58.24	58.22	58.20	58.18	58.16	58.14	58.12	58.10	58.08	58.06	58.04	58.02	58.00	57.98	57.96	57.94	57.92	57.90	57.88	57.86	57.84	57.82	57.80	57.78	57.76	57.74	57.72	57.70	57.68	57.66	57.64	57.62	57.60	57.58	57.56	57.54	57.52	57.50	57.48	57.46	57.44	57.42	57.40	57.38	57.36	57.34	57.32	57.30	57.28	57.26	57.24	57.22	57.20	57.18	57.16	57.14	57.12	57.10	57.08	57.06	57.04	57.02	57.00	56.98	56.96	56.94	56.92	56.90	56.88	56.86	56.84	56.82	56.80	56.78	56.76	56.74	56.72	56.70	56.68	56.66	56.64	56.62	56.60	56.58	56.56	56.54	56.52	56.50	56.48	56.46	56.44	56.42	56.40	56.38	56.36	56.34	56.32	56.30	56.28	56.26	56.24	56.22	56.20	56.18	56.16	56.14	56.12	56.10	56.08	56.06	56.04	56.02	56.00	55.98	55.96	55.94	55.92	55.90	55.88	55.86	55.84	55.82	55.80	55.78	55.76	55.74	55.72	55.70	55.68	55.66	55.64	55.62	55.60	55.58	55.56	55.54	55.52	55.50	55.48	55.46	55.44	55.42	55.40	55.38	55.36	55.34	55.32	55.30	55.28	55.26	55.24	55.22	55.20	55.18	55.16	55.14	55.12	55.10	55.08	55.06	55.04	55.02	55.00	54.98	54.96	54.94	54.92	54.90	54.88	54.86	54.84	54.82	54.80	54.78	54.76	54.74	54.72	54.70	54.68	54.66	54.64	54.62	54.60	54.58	54.56	54.54	54.52	54.50	54.48	54.46	54.44	54.42	54.40	54.38	54.36	54.34	54.32	54.30	54.28	54.26	54.24	54.22	54.20	54.18	54.16	54.14	54.12	54.10	54.08	54.06	54.04	54.02	54.00	53.98	53.96	53.94	53.92	53.90	53.88	53.86	53.84	53.82	53.80	53.78	53.76	53.74	53.72	53.70	53.68	53.66	53.64	53.62	53.60	53.58	53.56	53.54	53.52	53.50	53.48	53.46	53.44	53.42	53.40	53.38	53.36	53.34	53.32	53.30	53.28	53.26	53.24	53.22	53.20	53.18	53.16	53.14	53.12	53.10	53.08	53.06	53.04	53.02	53.00	52.98	52.96	52.94	52.92	52.90	52.88	52.86	52.84	52.82	52.80	52.78	52.76	52.74	52.72	52.70	52.68	52.66	52.64	52.62	52.60	52.58	52.56	52.54	52.52	52.50	52.48	52.46	52.44	52.42	52.40	52.38	52.36	52.34	52.32	52.30	52.28	52.26	52.24	52.22	52.20	52.18	52.16	52.14	52.12	52.10	52.08	52.06	52.04	52.02	52.00	51.98	51.96	51.94	51.92	51.90	51.88	51.86	51.84	51.82	51.80	51.78	51.76	51.74	51.72	51.70	51.68	51.66	51.64	51.62	51.60	51.58	51.56	51.54	51.52	51.50	51.48	51.46	51.44	51.42	51.40	51.38	51.36	51.34	51.32	51.30	51.28	51.26	51.24	51.22	51.20	51.18	51.16	51.14	51.12	51.10	51.08	51.06	51.04	51.02	51.00	50.98	50.96	50.94	50.92	50.90	50.88	50.86	50.84	50.82	50.80	50.78	50.76	50.74	50.72	50.70	50.68	50.66	50.64	50.62	50.60	50.58	50.56	50.54	50.52	50.50	50.48	50.46	50.44	50.42	50.40	50.38	50.36	50.34	50.32	50.30	50.28	50.26	50.24	50.22	50.20	50.18	50.16	50.14	50.12	50.10	50.08	50.06	50.04	50.02	50.00	49.98	49.96	49.94	49.92	49.90	49.88	49.86	49.84	49.82	49.80	49.78	49.76	49.74	49.72	49.70	49.68	49.66	49.64	49.62	49.60	49.58	49.56	49.54	49.52	49.50	49.48	49.46	49.44	49.42	49.40	49.38	49.36	49.34	49.32	49.30	49.28	49.26	49.24	49.22	49.20	49.18	49.16	49.14	49.12	49.10	49.08	49.06	49.04	49.02	49.00	48.98	48.96	48.94	48.92	48.90	48.88	48.86	48.84	48.82	48.80	48.78	48.76	48.74	48.72	48.70	48.68	48.66	48.64	48.62	48.60	48.58	48.56	48.54	48.52	48.50	48.48	48.46	48.44	48.42	48.40	48.38	48.36	48.34	48.32	48.30	48.28	48.26	48.24	48.22	48.20	48.18	48.16	48.14	48.12	48.10	48.08	48.06	48.04	48.02	48.00	47.98	47.96	47.94	47.92	47.90	47.88	47.86	47.84	47.82	47.80	47.78	47.76	47.74	47.72	47.70	47.68	47.66	47.64	47.62	47.60	47.58	47.56	47.54	47.52	47.50	47.48	47.46	47.44	47.42	47.40	47.38	47.36	47.34	47.32	47.30	47.28	47.26	47.24	47.22	47.20	47.18	47.16	47.14	47.12	47.10	47.08	47.06	47.04	47.02	47.00	46.98	46.96	46.94	46.92	46.90	46.88	46.86	46.84	46.82	46.80	46.78	46.76	46.74	46.72	46.70	46.68	46.66	46.64	46.62	46.60	46.58	46.56	46.54	46.52	46.50	46.48	46.46	46.44	46.42	46.40	46.38	46.36	46.34	46.32	46.30	46.28	46.26	46.24	46.22	46.20	46.18	46.16	46.14	46.12	46.10	46.08	46.06	46.04	46.02	46.00	45.98	45.96	45.94	45.92	45.90	45.88	45.86	45.84	45.82	45.80	45.78	45.76	45.74	45.72	45.70	45.68	45.66	45.64	45.62	45.60	45.58	45.56	45.54	45.52	45.50	45.48	45.46	45.44	45.42	45.40	45.38	45.36	45.34	45.32	45.30	45.28	45.26	45.24	45.22	45.20	45.18	45.16	45.14	45.12	45.10	45.08	45.06	45.04	45.02	45.00	44.98	44.96	44.94	44.92	44.90	44.88	44.86	44.84	44.82	44.80	44.78	44.76	44.74	44.72	44.70	44.68	44.66	44.64	44.62	44.60	44.58	44.56	44.54	44.52	44.50	44.48	44.46	44.44	44.42	44.40	44.38	44.36	44.34	44.32	44.30	44.28	44.26	44.24	44.22	44.20	44.18	44.16	44.14	44.12	44.10	44.08	44.06	44.04	44.02	44.00	43.98	43.96	43.94	43.92	43.90	43.88	43.86	43.84	43.82	43.80	43.78	43.76	43.74	43.72	43.70	43.68	43.66	43.64	43.62	43.60	43.58	43.56	43.54	43.52	43.50	43.48	43.46	43.44	43.42	43.40	43.38	43.36	43.34	43.32	43.30	43.28	43.26	43.24	43.22	43.20	43.18	43.16	43.14	43.12	43.10	43.08	43.06	43.04	43.02	43.00	42.98	42.96	42.94	42.92	42.90	42.88	42.86	42.84	42.82	42.80	42.78	42.76	42.74	42.72	42.70	42.68	42.66	42.64	42.62	42.60	42.58	42.56	42.54	42.52	42.50	42.48	42.46	42.44	42.42	42.40	42.38	42.36	42.34	42.32	42.30	42.28	42.26	42.24	42.22	42.20	42.18	42.16	42.14	42.12	42.10	42.08	42.06	42.04	42.02	42.00	41.98	41.96	41.94	41.92	41.90	41.88	41.86	41.84	41.82	41.80	41.78	41.76	41.74	41.72	41.70	41.68	41.66	41.64	41.62	41.60	41.58	41.56	41.54	41.52	41.50	41.48	41.46	41.44	41.42	41.40	41.38	41.36	41.34	41.32	41.30	41.28	41.26	41.24	41.22	41.20	41.18	41.16	41.14	41.12	41.10	41.08	41.06	41.04	41.02	41.00	40.98	40.96	40.94	40.92	40.90	40.88	40.86	40.



LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
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	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE

PLAN  
SCALE 1 : 4000



LONGSECTION  
SCALE 1 : 4000H 1 : 800V



REV	DESCRIPTION	DATE	DRN	CHK	APP
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	10.10.22	MH	JP	JP
C	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP
B	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP
A	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP

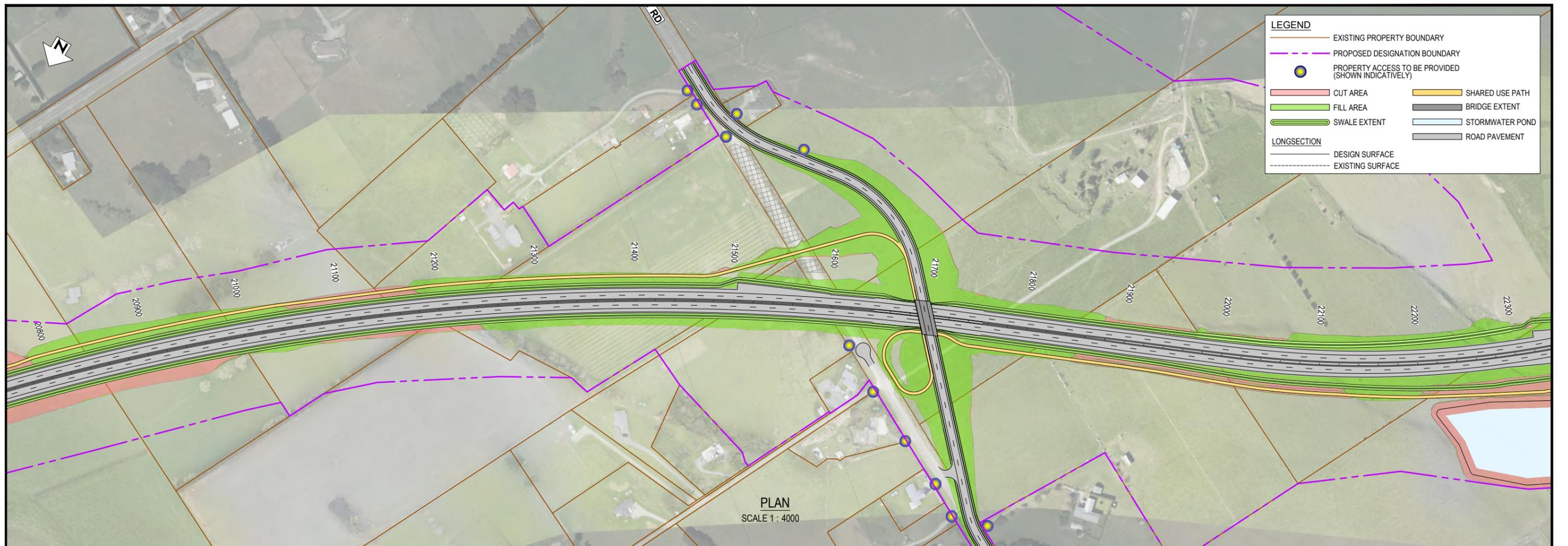
DATE	BY	DESCRIPTION
30.11.21	Steve Muller	DESIGNED
30.11.21	Steve Muller	DRAWN
08.12.21	Steve Sutton	CAD REVIEW
07.12.21	Jamie Povall	DESIGN CHECK
14.04.22	Keith Weale	DESIGN REVIEW
10.10.22	Jamie Povall	APPROVED



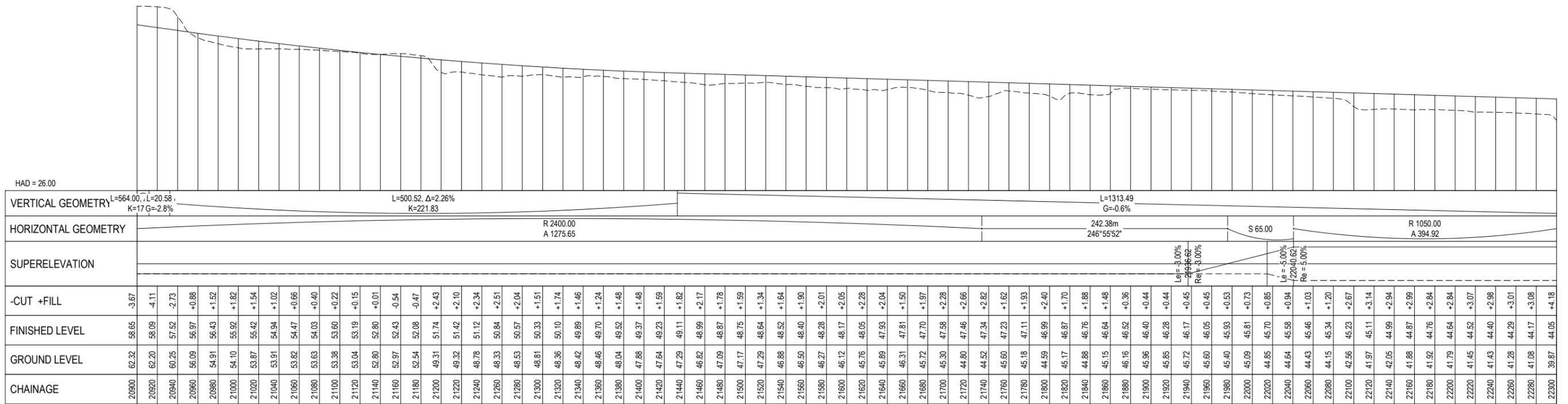
WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
PLAN AND LONG SECTION  
SHEET 8

NOT FOR CONSTRUCTION

FOR CONSENT	
Date Stamp	10.10.22
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1508
Rev.	D



LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE



CHAINAGE	GROUND LEVEL	FINISHED LEVEL	-CUT +FILL
20800	62.32	58.65	-3.67
20820	62.20	58.09	-4.11
20840	60.25	57.52	-2.73
20860	56.09	56.97	+0.88
20880	54.91	56.43	+1.52
21000	54.10	55.92	+1.82
21020	53.87	55.42	+1.54
21040	53.91	54.94	+1.02
21060	53.82	54.47	+0.66
21080	53.63	54.03	+0.40
21100	53.38	53.60	+0.22
21120	53.04	53.19	+0.15
21140	52.80	52.80	+0.01
21160	52.97	52.43	-0.54
21180	52.54	52.08	-0.47
21200	49.31	51.74	+2.43
21220	49.32	51.42	+2.10
21240	48.78	51.12	+2.34
21260	48.33	50.84	+2.51
21280	48.53	50.57	+2.04
21300	48.81	50.33	+1.51
21320	48.36	50.10	+1.74
21340	48.42	49.89	+1.46
21360	48.46	49.70	+1.24
21380	48.04	49.52	+1.48
21400	47.88	49.37	+1.48
21420	47.64	49.23	+1.59
21440	47.29	49.11	+1.82
21460	46.82	48.99	+2.17
21480	47.09	48.87	+1.78
21500	47.17	48.75	+1.59
21520	47.29	48.64	+1.34
21540	46.88	48.52	+1.64
21560	46.50	48.40	+1.90
21580	46.27	48.28	+2.01
21600	46.12	48.17	+2.05
21620	45.76	48.05	+2.28
21640	45.89	47.93	+2.04
21660	46.31	47.81	+1.50
21680	45.72	47.70	+1.97
21700	45.30	47.58	+2.28
21720	44.80	47.46	+2.66
21740	44.52	47.34	+2.82
21760	45.60	47.23	+1.62
21780	45.18	47.11	+1.93
21800	44.59	46.99	+2.40
21820	45.17	46.87	+1.70
21840	44.88	46.76	+1.88
21860	45.15	46.64	+1.48
21880	46.16	46.52	+0.36
21900	45.96	46.40	+0.44
21920	45.85	46.28	+0.44
21940	45.72	46.17	+0.45
21960	45.60	46.05	+0.45
21980	45.40	45.93	+0.53
22000	45.09	45.81	+0.73
22020	44.85	45.70	+0.85
22040	44.64	45.58	+0.94
22060	44.43	45.46	+1.03
22080	44.15	45.34	+1.20
22100	42.56	45.23	+2.67
22120	41.97	45.11	+3.14
22140	42.05	44.99	+2.94
22160	41.88	44.87	+2.99
22180	41.92	44.76	+2.84
22200	41.79	44.64	+2.84
22220	41.45	44.52	+3.07
22240	41.43	44.40	+2.98
22260	41.28	44.29	+3.01
22280	41.08	44.17	+3.08
22300	39.87	44.05	+4.18



**NOT FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	CHK	APP
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	10.10.22	MH	JP	JP
C	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP
B	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP
A	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP

STATUS	NAME	DATE
SURVEYED		
DESIGNED	Steve Muller	30.11.21
DRAWN	Steve Muller	30.11.21
CAD REVIEW	Steve Sutton	08.12.21
DESIGN CHECK	Jamie Povall	07.12.21
DESIGN REVIEW	Keith Weale	14.04.22
APPROVED	Jamie Povall	10.10.22

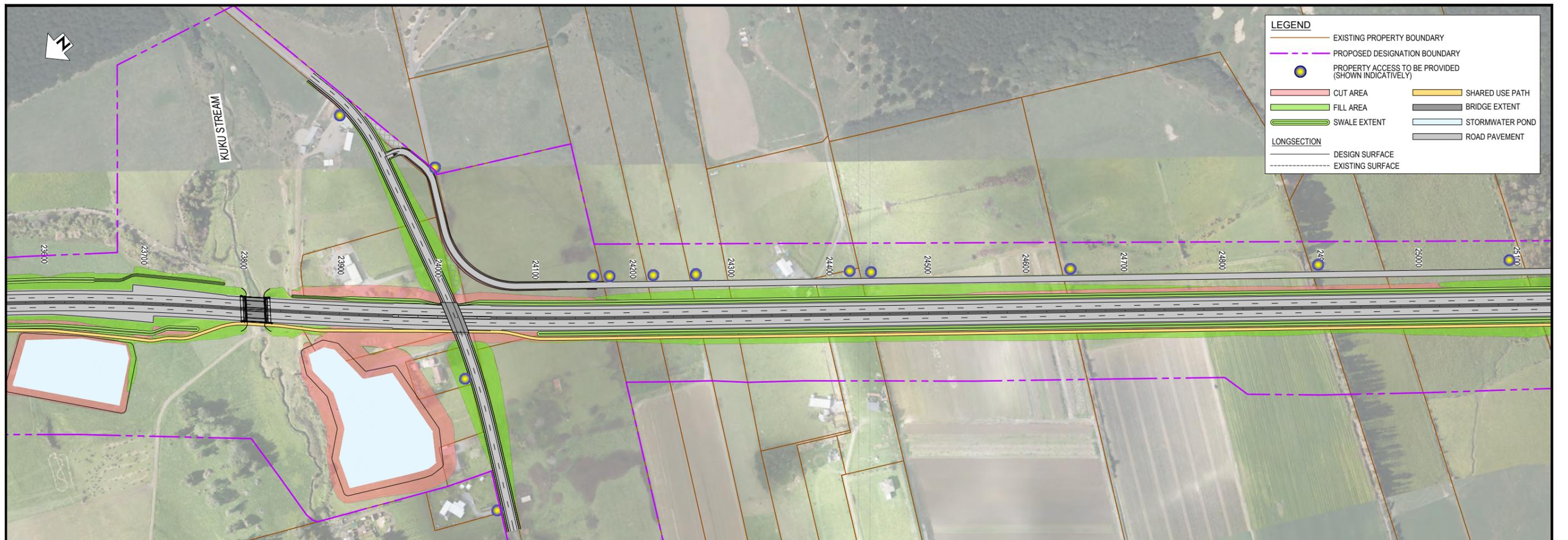


Client:  
**WAKA KOTAHI**  
OTAKI TO NORTH OF LEVIN PROJECT

PLAN AND LONG SECTION  
SHEET 9

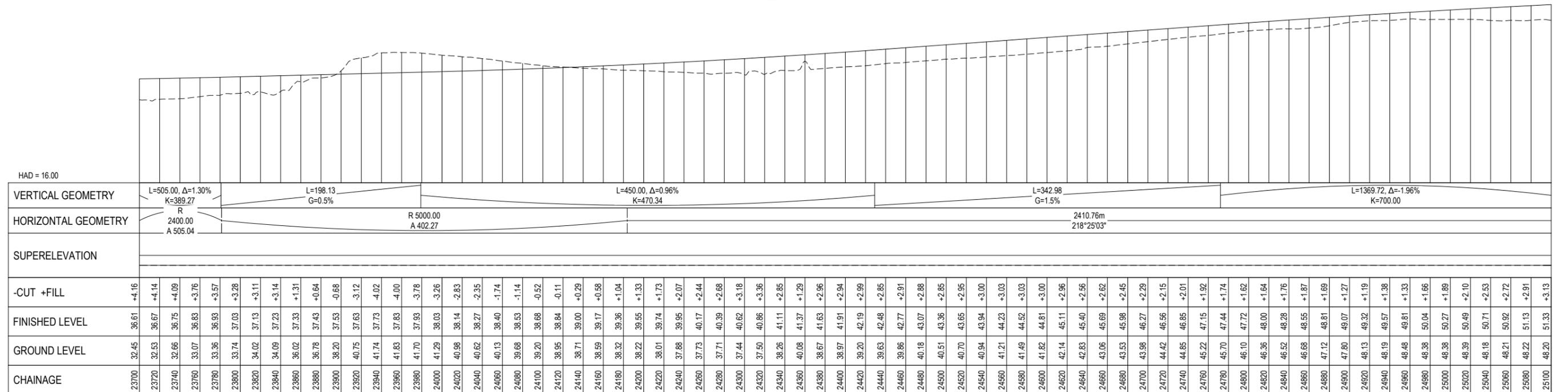
FOR CONSENT	
Date Stamp	10.10.22
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1509
Rev.	D





LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE

PLAN  
SCALE 1 : 4000



LONGSECTION  
SCALE 1 : 4000H 1 : 800V



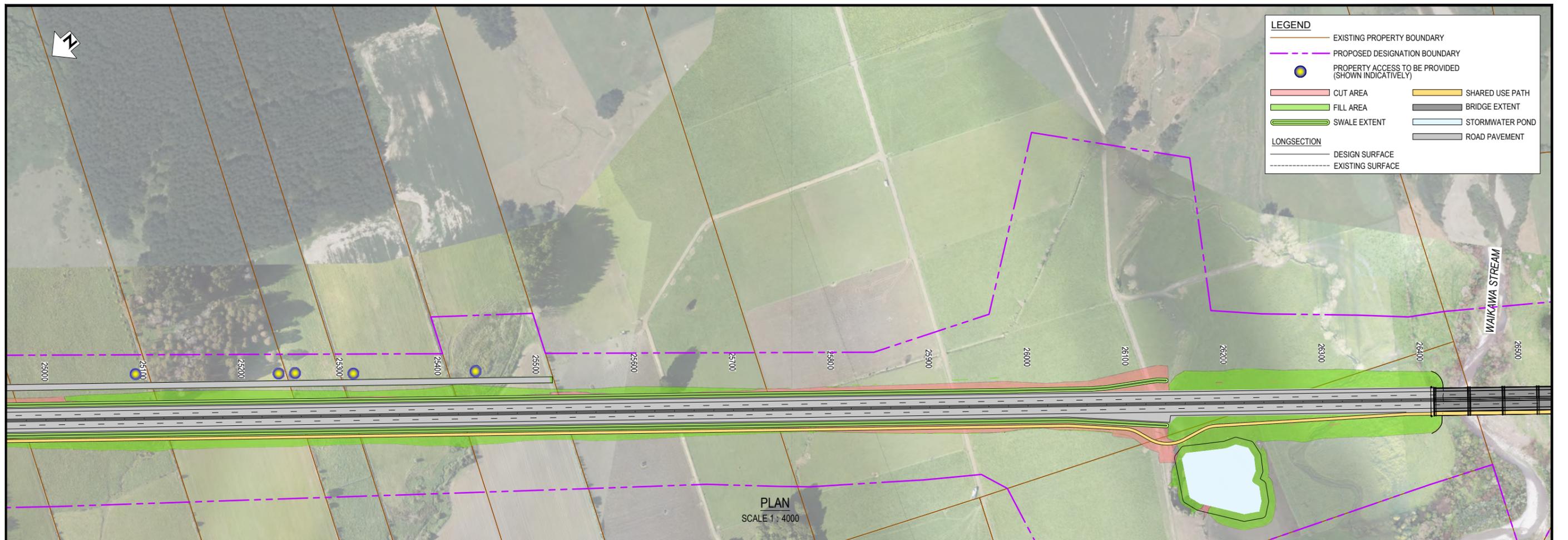
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	CHK	APP
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	10.10.22	MH	JP	JP
C	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP
B	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP
A	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP

DATE	BY	DESCRIPTION
30.11.21	Steve Muller	DESIGNED
30.11.21	Steve Muller	DRAWN
08.12.21	Steve Sutton	CAD REVIEW
07.12.21	Jamie Povall	DESIGN CHECK
14.04.22	Keith Weale	DESIGN REVIEW
10.10.22	Jamie Povall	APPROVED

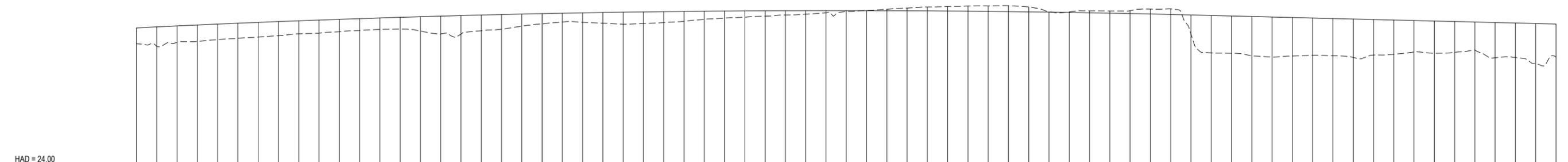
Client: WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
PLAN AND LONG SECTION  
SHEET 11

Status Stamp	FOR CONSENT
Date Stamp	10.10.22
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1511
Rev.	D



LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE

PLAN  
SCALE 1 : 4000



CHAINAGE	GROUND LEVEL	FINISHED LEVEL	-CUT +FILL
25100	48.20	51.33	+3.13
25120	47.69	51.52	+3.83
25140	48.49	51.71	+3.22
25160	48.64	51.90	+3.26
25180	49.00	52.07	+3.07
25200	49.27	52.25	+2.97
25220	49.53	52.41	+2.89
25240	49.80	52.57	+2.77
25260	50.13	52.73	+2.59
25280	50.29	52.88	+2.59
25300	50.57	53.02	+2.45
25320	50.83	53.16	+2.33
25340	51.03	53.29	+2.26
25360	51.11	53.42	+2.31
25380	50.70	53.54	+2.84
25400	50.12	53.65	+3.54
25420	50.09	53.76	+3.68
25440	50.77	53.86	+3.10
25460	51.07	53.96	+2.89
25480	51.67	54.05	+2.39
25500	52.12	54.14	+2.02
25520	52.48	54.22	+1.75
25540	52.43	54.30	+1.86
25560	52.23	54.36	+2.14
25580	52.05	54.43	+2.37
25600	52.19	54.49	+2.29
25620	52.39	54.54	+2.15
25640	52.62	54.58	+1.96
25660	53.03	54.62	+1.60
25680	53.27	54.66	+1.39
25700	53.46	54.69	+1.23
25720	53.65	54.71	+1.06
25740	53.86	54.73	+0.87
25760	54.03	54.74	+0.71
25780	54.32	54.75	+0.42
25800	54.57	54.75	+0.17
25820	54.77	54.74	-0.02
25840	55.02	54.73	-0.29
25860	55.25	54.71	-0.53
25880	55.46	54.69	-0.77
25900	55.56	54.66	-0.89
25920	55.64	54.63	-1.01
25940	55.66	54.59	-1.07
25960	55.70	54.55	-1.16
25980	55.46	54.49	-0.97
26000	54.50	54.44	-0.06
26020	54.49	54.38	-0.11
26040	54.69	54.31	-0.38
26060	54.66	54.23	-0.43
26080	54.74	54.15	-0.58
26100	55.06	54.07	-0.99
26120	55.09	53.98	-1.11
26140	50.12	53.88	+3.76
26160	46.39	53.78	+7.39
26180	46.31	53.68	+7.37
26200	45.83	53.58	+7.76
26220	45.56	53.48	+7.92
26240	45.78	53.38	+7.61
26260	45.91	53.28	+7.37
26280	45.84	53.18	+7.35
26300	45.50	53.08	+7.58
26320	45.95	52.98	+7.03
26340	46.12	52.88	+6.77
26360	46.54	52.78	+6.24
26380	46.31	52.68	+6.38
26400	46.49	52.58	+6.09
26420	46.92	52.48	+5.56
26440	45.40	52.38	+6.98
26460	45.49	52.28	+6.79
26480	44.24	52.18	+7.94
26500	45.55	52.08	+6.54

LONGSECTION  
SCALE 1 : 4000H 1 : 800V



NOT FOR CONSTRUCTION

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT				10.10.22
C	ISSUED FOR RMA CONSENT				19.08.22
B	ISSUED FOR CONSENT - DRAFT				20.04.22
A	ISSUED FOR CONSENT - DRAFT				09.12.21

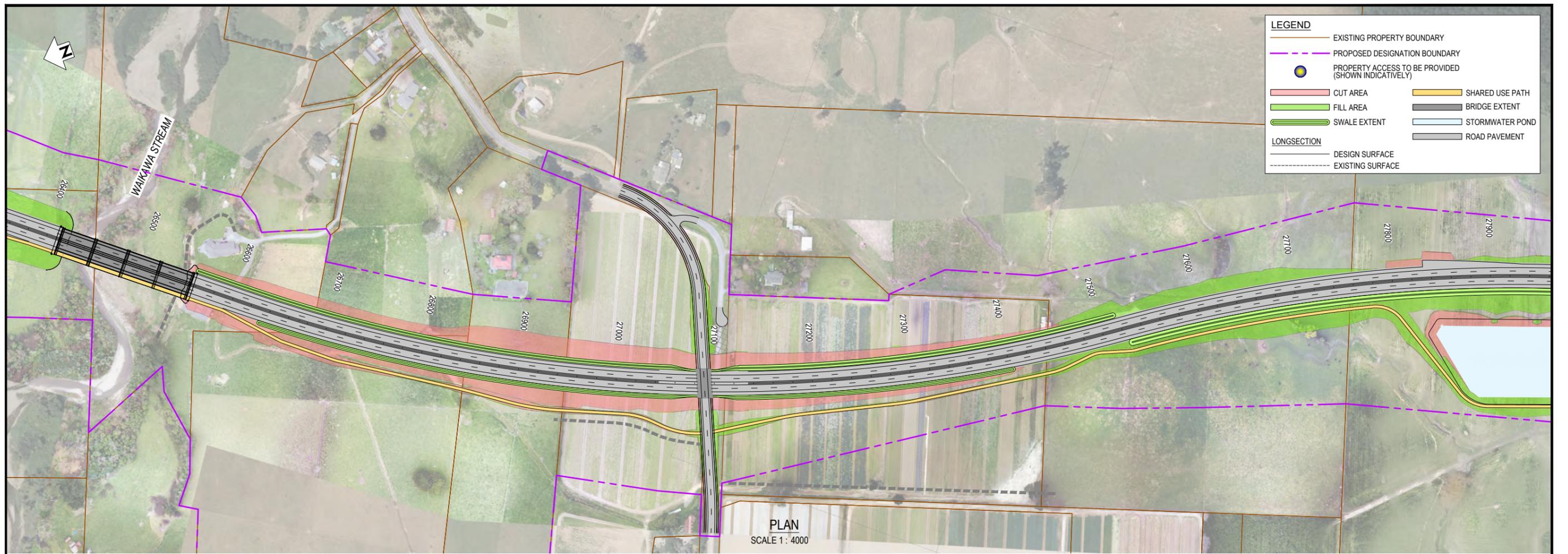
DATE	BY	DESCRIPTION
30.11.21	Steve Muller	DESIGNED
30.11.21	Steve Muller	DRAWN
08.12.21	Steve Sutton	CAD REVIEW
07.12.21	Jamie Povall	DESIGN CHECK
14.04.22	Keith Weale	DESIGN REVIEW
10.10.22	Jamie Povall	APPROVED



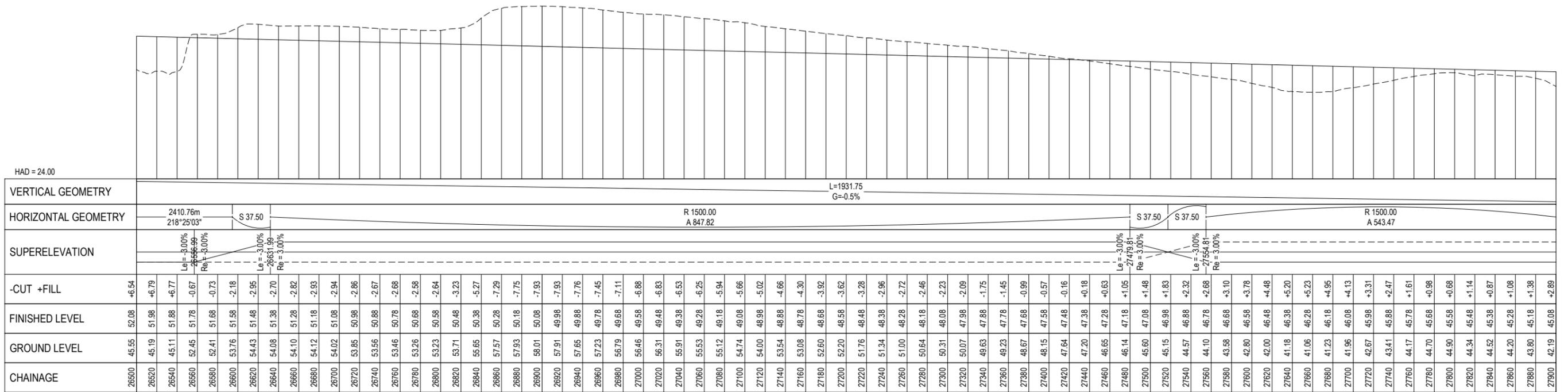
Client:  
**WAKA KOTAHI**  
OTAKI TO NORTH OF LEVIN PROJECT

PLAN AND LONG SECTION  
SHEET 12

FOR CONSENT	
Date Stamp	10.10.22
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1512
Rev.	D



PLAN  
SCALE 1 : 4000



LONGSECTION  
SCALE 1 : 4000H 1 : 800V

CHAINAGE	GROUND LEVEL	-CUT +FILL	FINISHED LEVEL
26500	45.55	+6.54	52.08
26520	45.19	+6.79	51.98
26540	45.11	+6.77	51.88
26560	52.45	-0.67	51.78
26580	52.41	-0.73	51.68
26600	53.76	-2.18	51.58
26620	54.43	-2.95	51.48
26640	54.08	-2.70	51.38
26660	54.10	-2.82	51.28
26680	54.12	-2.93	51.18
26700	54.02	-2.94	51.08
26720	53.85	-2.86	50.98
26740	53.56	-2.67	50.88
26760	53.46	-2.68	50.78
26780	53.26	-2.58	50.68
26800	53.23	-2.64	50.58
26820	53.71	-3.23	50.48
26840	55.65	-5.27	50.38
26860	57.57	-7.29	50.28
26880	57.93	-7.75	50.18
26900	58.01	-7.93	50.08
26920	57.91	-7.93	49.98
26940	57.65	-7.76	49.88
26960	57.23	-7.45	49.78
26980	56.79	-7.11	49.68
27000	56.46	-6.88	49.58
27020	56.31	-6.83	49.48
27040	55.91	-6.53	49.38
27060	55.53	-6.25	49.28
27080	55.12	-5.94	49.18
27100	54.74	-5.66	49.08
27120	54.00	-5.02	48.98
27140	53.54	-4.66	48.88
27160	53.08	-4.30	48.78
27180	52.60	-3.92	48.68
27200	52.20	-3.62	48.58
27220	51.76	-3.28	48.48
27240	51.34	-2.96	48.38
27260	51.00	-2.72	48.28
27280	50.64	-2.46	48.18
27300	50.31	-2.23	48.08
27320	50.07	-2.09	47.98
27340	49.63	-1.75	47.88
27360	49.23	-1.45	47.78
27380	48.67	-0.99	47.68
27400	48.15	-0.57	47.58
27420	47.64	-0.16	47.48
27440	47.20	+0.18	47.38
27460	46.65	+0.63	47.28
27480	46.14	+1.05	47.18
27500	45.60	+1.48	47.08
27520	45.15	+1.83	46.98
27540	44.57	+2.32	46.88
27560	44.10	+2.68	46.78
27580	43.58	+3.10	46.68
27600	42.80	+3.78	46.58
27620	42.00	+4.48	46.48
27640	41.18	+5.20	46.38
27660	41.06	+5.23	46.28
27680	41.23	+4.95	46.18
27700	41.96	+4.13	46.08
27720	42.67	+3.31	45.98
27740	43.41	+2.47	45.88
27760	44.17	+1.61	45.78
27780	44.70	+0.98	45.68
27800	44.90	+0.68	45.58
27820	44.34	+1.14	45.48
27840	44.52	+0.87	45.38
27860	44.20	+1.08	45.28
27880	43.80	+1.38	45.18
27900	42.19	+2.69	45.08



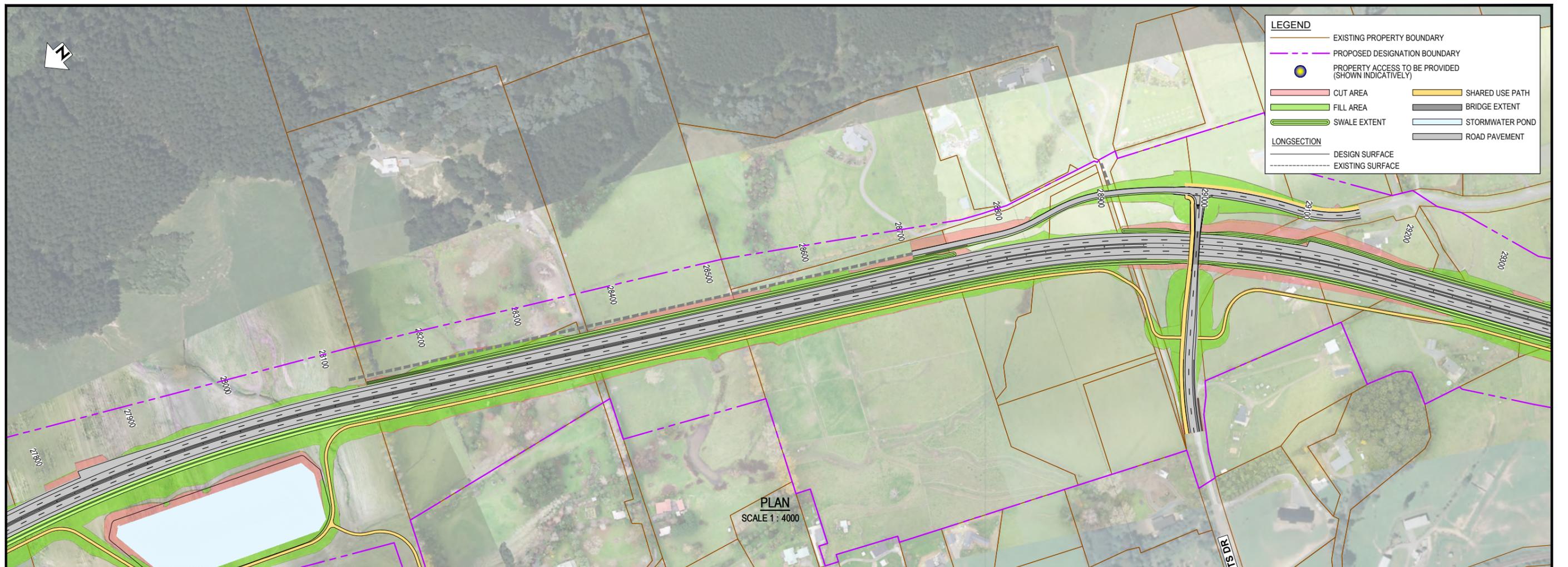
REV	DESCRIPTION	DATE	DRN	CHK	APP
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	10.10.22	MH	JP	JP
C	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP
B	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP
A	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP

ROLE	NAME	DATE
SURVEYED		
DESIGNED	Steve Muller	30.11.21
DRAWN	Steve Muller	30.11.21
CAD REVIEW	Steve Sutton	08.12.21
DESIGN CHECK	Jamie Povall	07.12.21
DESIGN REVIEW	Keith Weale	14.04.22
APPROVED	Jamie Povall	10.10.22

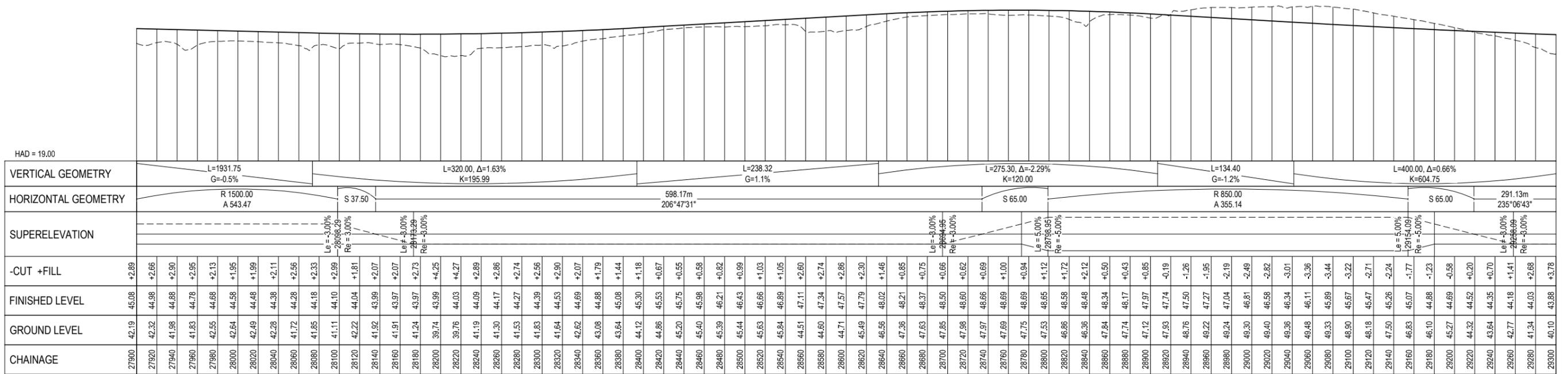


Client: WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
PLAN AND LONG SECTION  
SHEET 13

Status Stamp	<b>FOR CONSENT</b>
Date Stamp	10.10.22
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1513
Rev.	D



PLAN  
SCALE 1 : 4000



LONGSECTION  
SCALE 1 : 4000H 1 : 800V



NOT FOR CONSTRUCTION

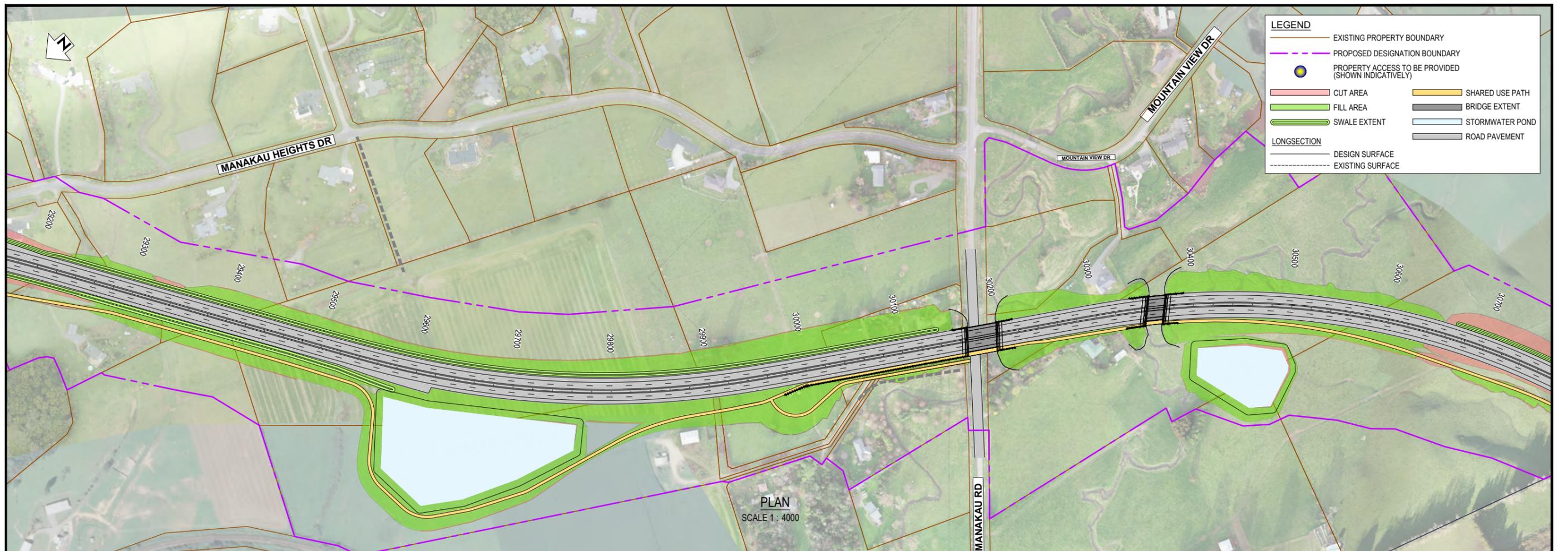
REV	REVISIONS	DRN	CHK	APP	DATE	PROF REGISTRATION
E	DESIGNATION UPDATED - ISSUED FOR RMA CONSENT	MN	GL	JP	29.11.23	
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	MH	JP	JP	18.10.22	
C	ISSUED FOR RMA CONSENT	SS	KW	JP	19.08.22	
B	ISSUED FOR CONSENT - DRAFT	SS	KW	JP	20.04.22	
A	ISSUED FOR CONSENT - DRAFT	SS	KW	JP	09.12.21	

DATE	BY	DESCRIPTION
30.11.21	Steve Muller	DESIGNED
30.11.21	Steve Muller	DRAWN
08.12.21	Steve Sutton	CAD REVIEW
07.12.21	Jamie Povall	DESIGN CHECK
14.04.22	Keith Weale	DESIGN REVIEW
29.11.23	Jon England	APPROVED

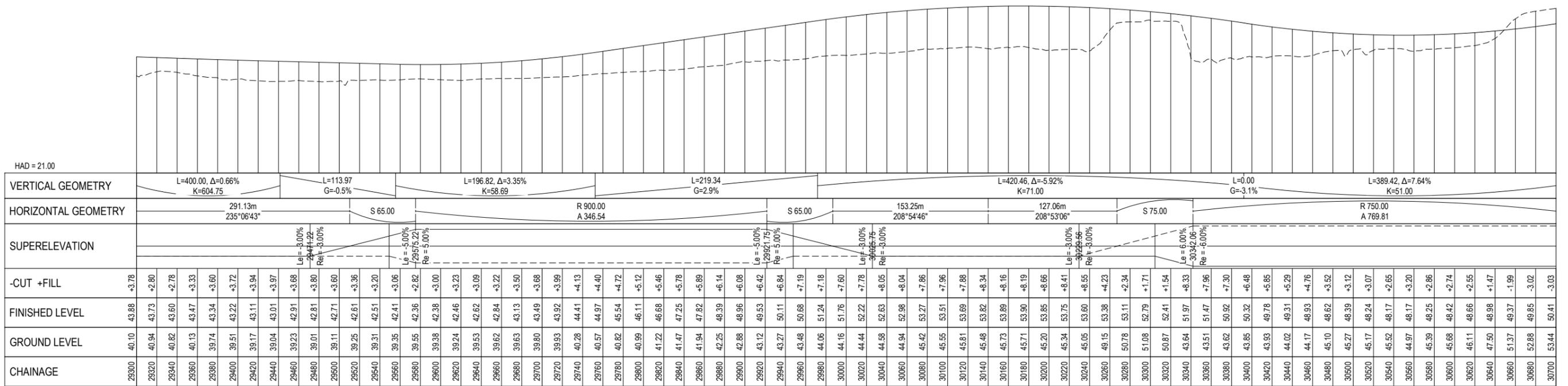


WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
PLAN AND LONG SECTION  
SHEET 14

Status Stamp	<b>FOR CONSENT</b>
Date Stamp	<b>29.11.23</b>
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1514
Rev.	<b>E</b>



LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE



LONGSECTION SCALE 1 : 4000H 1 : 800V

50 0 50 100m

SCALE 1:4000 (A3)

**NOT FOR CONSTRUCTION**

**FOR CONSENT**

Date Stamp: **10.10.22**

Scale: AS SHOWN

Drawing No: **310203848-01-100-C1515**

Rev: **D**

Client:

**WAKA KOTAHI**  
OTAKI TO NORTH OF LEVIN PROJECT

PLAN AND LONG SECTION  
SHEET 15

STATUS

SURVEYED		
DESIGNED	Steve Muller	30.11.21
DRAWN	Steve Muller	30.11.21
CAD REVIEW	Steve Sutton	08.12.21
DESIGN CHECK	Jamie Povall	07.12.21
DESIGN REVIEW	Keith Weale	14.04.22
APPROVED	Jamie Povall	10.10.22

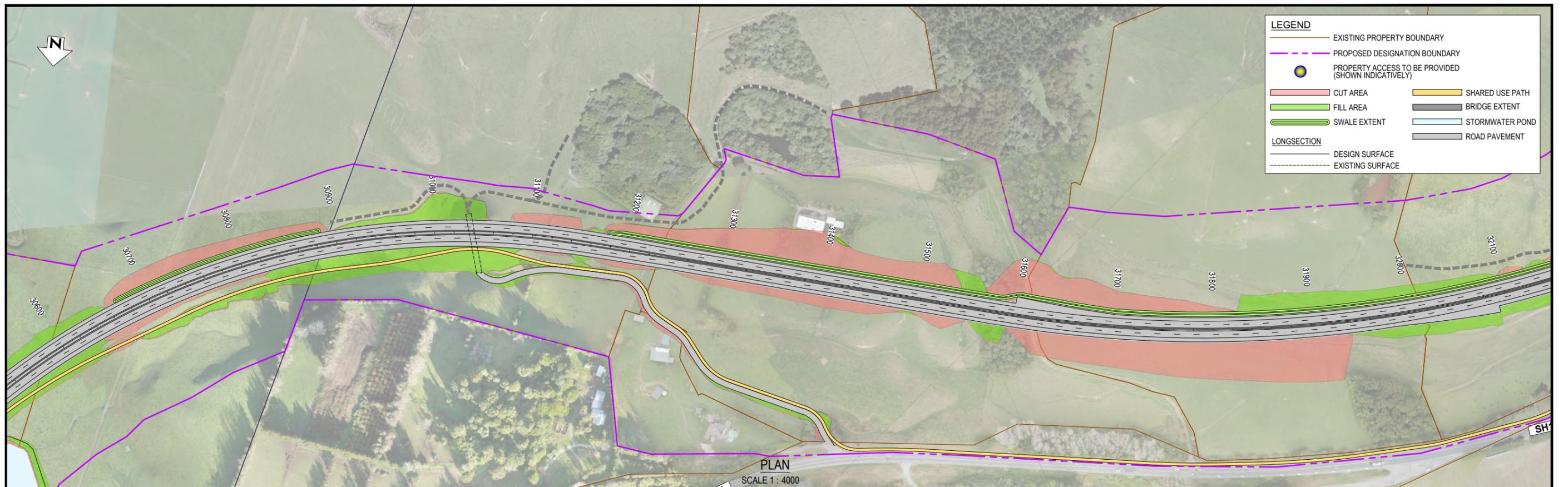
PROF REGISTRATION:

REV: D VARIOUS UPDATES - ISSUED FOR RMA CONSENT MH JP JP 10.10.22

C ISSUED FOR RMA CONSENT SS KW JP 19.08.22

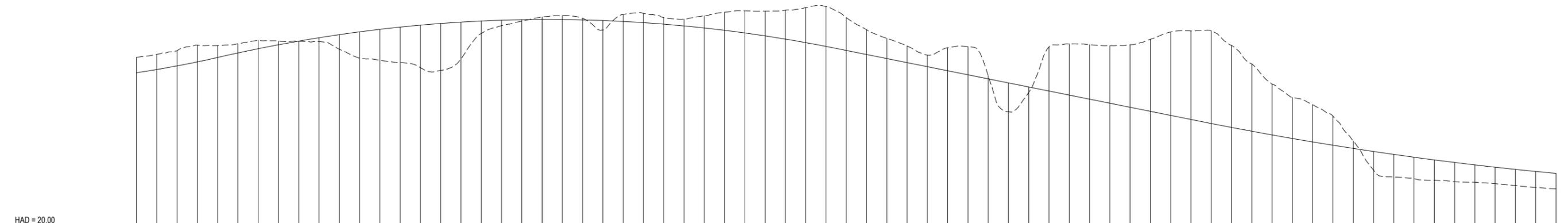
B ISSUED FOR CONSENT - DRAFT SS KW JP 20.04.22

A ISSUED FOR CONSENT - DRAFT SS KW JP 09.12.21



PLAN  
SCALE 1 : 4000

LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE



CHAINAGE	GROUND LEVEL	-CUT +FILL	FINISHED LEVEL
30700	53.44	-3.03	50.41
30720	54.02	-2.98	51.04
30740	54.75	-3.00	51.75
30760	55.63	-3.29	52.34
30780	55.76	-2.35	53.41
30800	56.11	-1.81	54.30
30820	56.76	-1.63	55.13
30840	56.63	-0.72	55.91
30860	56.60	+0.02	56.63
30880	56.52	+0.77	57.29
30900	55.02	+2.88	57.90
30920	53.28	+5.17	58.45
30940	52.85	+6.09	58.95
30960	52.41	+6.97	59.39
30980	51.40	+8.37	59.77
31000	50.86	+9.23	60.10
31020	53.14	+7.23	60.37
31040	58.14	+2.44	60.58
31060	59.68	+1.06	60.74
31080	60.54	+0.30	60.84
31100	61.38	-0.50	60.88
31120	61.65	-0.78	60.87
31140	61.10	-0.30	60.80
31160	58.81	+1.87	60.68
31180	61.87	-1.38	60.50
31200	62.08	-1.82	60.26
31220	61.26	-1.29	59.97
31240	60.93	-1.32	59.62
31260	61.61	-2.40	59.21
31280	62.30	-3.56	58.75
31300	62.59	-4.36	58.23
31320	62.51	-4.86	57.65
31340	62.71	-5.69	57.02
31360	63.22	-6.89	56.34
31380	63.44	-7.85	55.59
31400	61.28	-6.48	54.80
31420	58.88	-4.88	54.00
31440	57.18	-3.98	53.20
31460	55.68	-3.28	52.40
31480	53.88	-2.28	51.60
31500	55.31	-4.52	50.80
31520	55.54	-5.54	50.00
31540	49.80	-0.60	49.20
31560	42.71	+5.68	48.40
31580	46.52	+1.08	47.60
31600	55.48	-8.68	46.80
31620	56.08	-10.08	46.00
31640	55.93	-10.73	45.20
31660	55.74	-11.34	44.40
31680	55.90	-12.31	43.60
31700	56.98	-14.18	42.80
31720	58.42	-16.43	42.00
31740	58.63	-17.43	41.20
31760	58.68	-18.28	40.40
31780	55.76	-16.13	39.63
31800	52.13	-13.26	38.88
31820	48.16	-10.00	38.15
31840	45.55	-8.09	37.45
31860	44.10	-7.32	36.78
31880	41.89	-5.76	36.13
31900	36.98	-1.48	35.50
31920	31.28	+3.62	34.90
31940	29.90	+4.43	34.32
31960	29.54	+4.23	33.77
31980	29.24	+4.00	33.24
32000	28.92	+3.81	32.74
32020	28.83	+3.42	32.26
32040	28.58	+3.23	31.80
32060	28.19	+3.19	31.37
32080	27.81	+3.16	30.97
32100	27.55	+3.04	30.58

LONGSECTION  
SCALE 1 : 4000H 1 : 800V



REV	DESCRIPTION	DATE	DRN	CHK	APP
D	VARIOUS UPDATES - ISSUED FOR RMA CONSENT	10.10.22	MH	JP	JP
C	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP
B	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP
A	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP

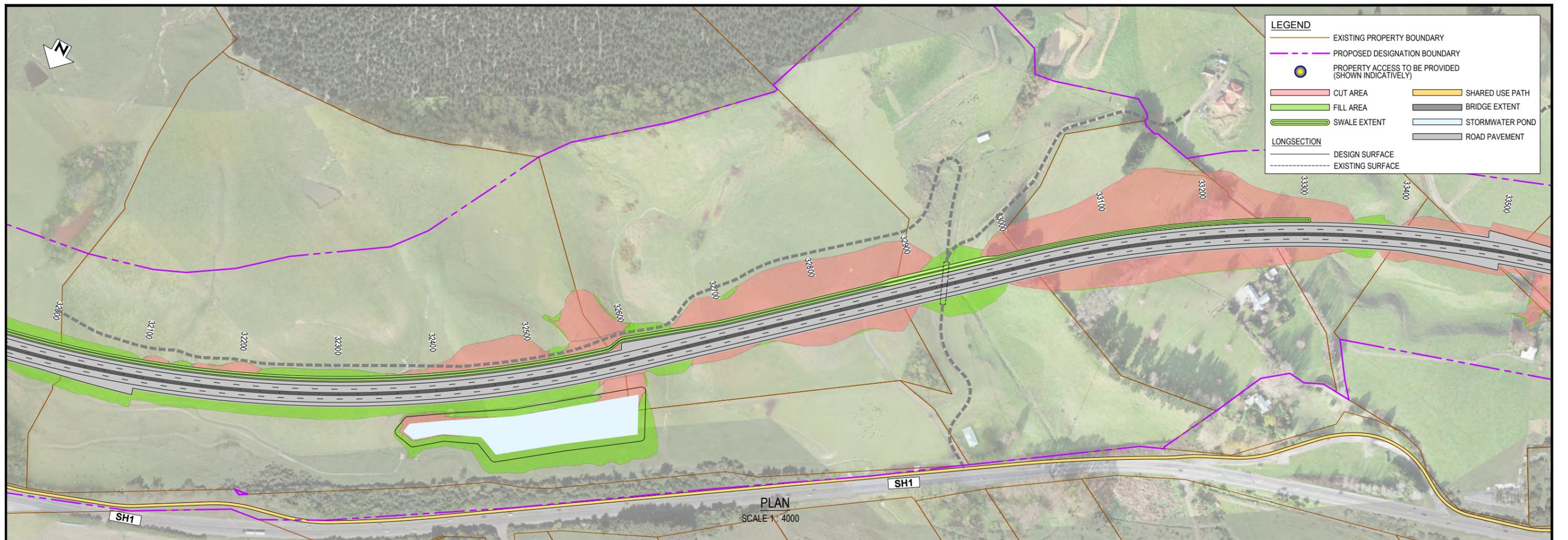
DATE	BY	DESCRIPTION
30.11.21	Steve Muller	SURVEYED
30.11.21	Steve Muller	DESIGNED
08.12.21	Steve Sutton	DRAWN
07.12.21	Jamie Povall	CAD REVIEW
14.04.22	Keith Weale	DESIGN CHECK
10.10.22	Jamie Povall	DESIGN REVIEW
10.10.22	Jamie Povall	APPROVED

Client:

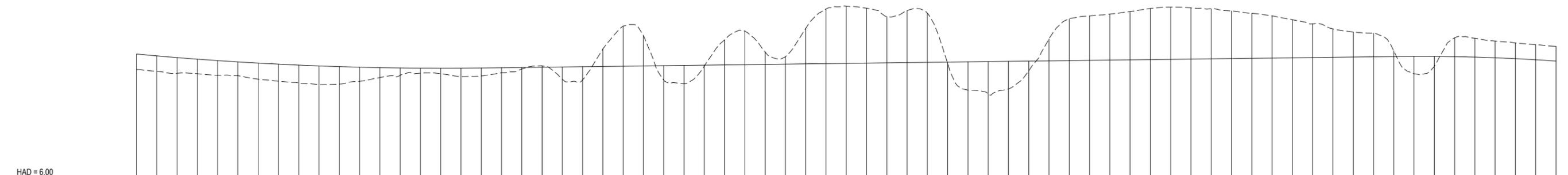
WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT

PLAN AND LONG SECTION  
SHEET 16

Status Stamp	<b>FOR CONSENT</b>
Date Stamp	<b>10.10.22</b>
Scale	AS SHOWN
Drawing No.	310203848-01-100-C1516
Rev.	<b>D</b>



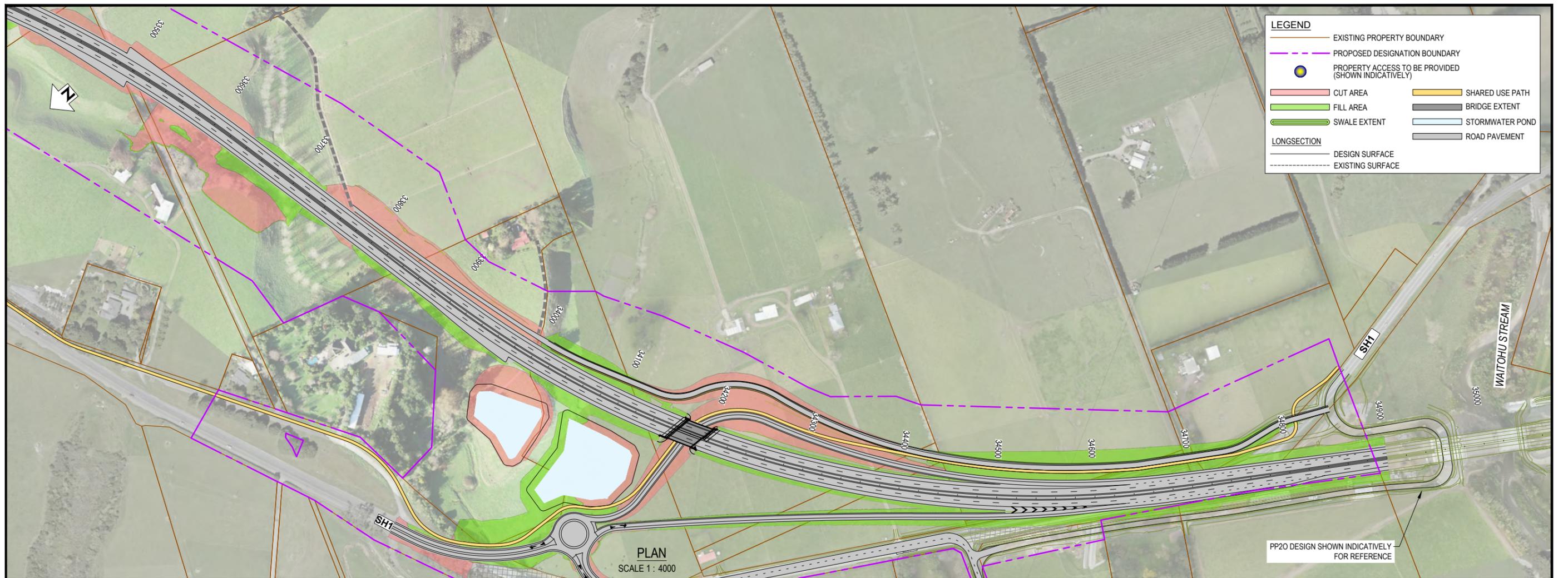
LEGEND	
	EXISTING PROPERTY BOUNDARY
	PROPOSED DESIGNATION BOUNDARY
	PROPERTY ACCESS TO BE PROVIDED (SHOWN INDICATIVELY)
	CUT AREA
	FILL AREA
	SWALE EXTENT
	SHARED USE PATH
	BRIDGE EXTENT
	STORMWATER POND
	ROAD PAVEMENT
LONGSECTION	
	DESIGN SURFACE
	EXISTING SURFACE



CHAINAGE	32100	32120	32140	32160	32180	32200	32220	32240	32260	32280	32300	32320	32340	32360	32380	32400	32420	32440	32460	32480	32500	32520	32540	32560	32580	32600	32620	32640	32660	32680	32700	32720	32740	32760	32780	32800	32820	32840	32860	32880	32900	32920	32940	32960	32980	33000	33020	33040	33060	33080	33100	33120	33140	33160	33180	33200	33220	33240	33260	33280	33300	33320	33340	33360	33380	33400	33420	33440	33460	33480	33500
VERTICAL GEOMETRY	L=693.00, Δ=4.25% K=163.06												L=899.96 G=0.2%												L=306.97, Δ=-3.15% K=97.30																																														
HORIZONTAL GEOMETRY	R 1250.00 A 965.04												S 50.00 366.90m 226°53'51"												R 1200.00 A 565.01																																														
SUPERELEVATION	Le = 4.00% Re = -4.00%												Le = 3.00% Re = -3.00%												Le = 4.00% Re = -4.00%																																														
-CUT +FILL	+3.04	+3.01	+3.09	+2.87	+2.69	+2.70	+3.17	+3.35	+3.51	+3.67	+3.43	+2.78	+1.95	+1.45	+1.01	+1.09	+1.69	+1.58	+1.00	+0.31	-0.27	+2.42	+2.58	-3.45	-7.89	-5.99	+2.84	+3.59	+0.17	-4.92	-6.63	-2.44	-1.46	-6.95	-10.73	-11.25	-10.78	-9.07	-10.22	+5.54	+6.34	+5.44	+1.90	-4.30	-8.20	-8.72	-9.04	-9.48	-10.02	-10.26	-10.07	-9.84	-9.35	-8.85	-8.30	-7.48	-6.63	-5.56	-4.93	-4.64	-1.13	+3.42	+1.94	-3.69	-3.70	-3.28	-3.09	-2.98	-2.88		
FINISHED LEVEL	30.58	30.23	29.90	29.59	29.30	29.05	28.81	28.60	28.42	28.26	28.12	28.01	27.92	27.86	27.82	27.81	27.82	27.86	27.91	27.96	28.01	28.06	28.11	28.16	28.21	28.26	28.31	28.36	28.41	28.46	28.51	28.56	28.61	28.66	28.71	28.76	28.81	28.86	28.91	28.96	29.01	29.06	29.11	29.16	29.21	29.26	29.31	29.36	29.41	29.46	29.51	29.56	29.61	29.66	29.71	29.76	29.81	29.86	29.91	29.96	30.01	30.06	30.11	30.14	30.13	30.08	29.99	29.86	29.69	29.47	29.22
GROUND LEVEL	27.55	27.22	26.81	26.72	26.42	26.35	25.64	25.25	24.91	24.59	24.69	25.23	25.97	26.41	26.82	26.72	26.13	26.28	26.91	27.65	28.27	28.01	25.64	25.53	31.60	36.09	34.25	25.46	24.77	28.24	33.38	35.13	31.00	30.07	35.60	39.43	40.00	39.59	37.93	39.13	38.62	27.30	33.56	37.50	38.08	38.45	38.93	39.53	39.81	39.50	39.06	38.61	38.10	37.33	36.54	35.52	34.93	34.70	31.23	26.72	26.19	33.77	33.69	33.14	32.77	32.45	32.10				

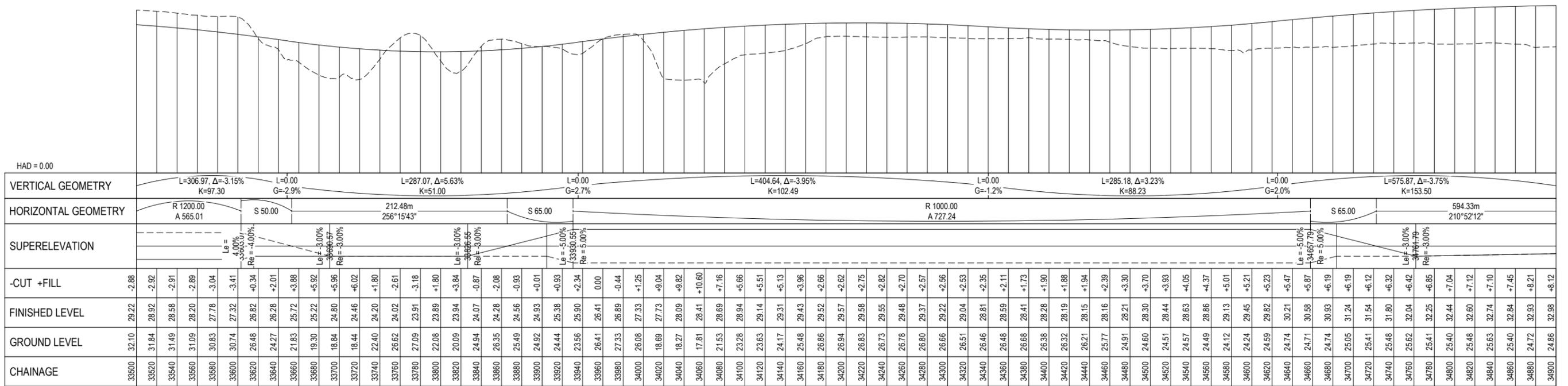


D VARIOUS UPDATES - ISSUED FOR RMA CONSENT C ISSUED FOR RMA CONSENT B ISSUED FOR CONSENT - DRAFT A ISSUED FOR CONSENT - DRAFT		SURVEYED DESIGNED Steve Muller 30.11.21 DRAWN Steve Muller 30.11.21 CAD REVIEW Steve Sutton 08.12.21 DESIGN CHECK Jamie Povall 07.12.21 DESIGN REVIEW Keith Weale 14.04.22 APPROVED Jamie Povall 10.10.22			WAKA KOTAHI OTAKI TO NORTH OF LEVIN PROJECT  PLAN AND LONG SECTION SHEET 17	NOT FOR CONSTRUCTION  <b>FOR CONSENT</b> Date Stamp: 10.10.22 Status Stamp: AS SHOWN Drawing No: 310203848-01-100-C1517 Rev: D
		REVISIONS DRN CHK APP DATE	PROF REGISTRATION:			



PLAN  
SCALE 1 : 4000

PP20 DESIGN SHOWN INDICATIVELY FOR REFERENCE

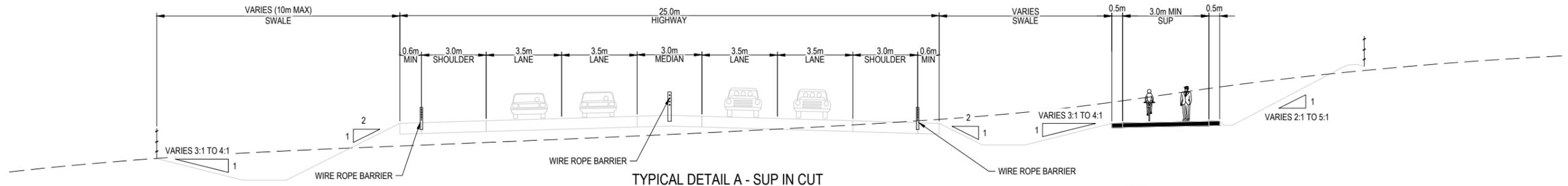


LONGSECTION  
SCALE 1 : 4000H 1 : 800V

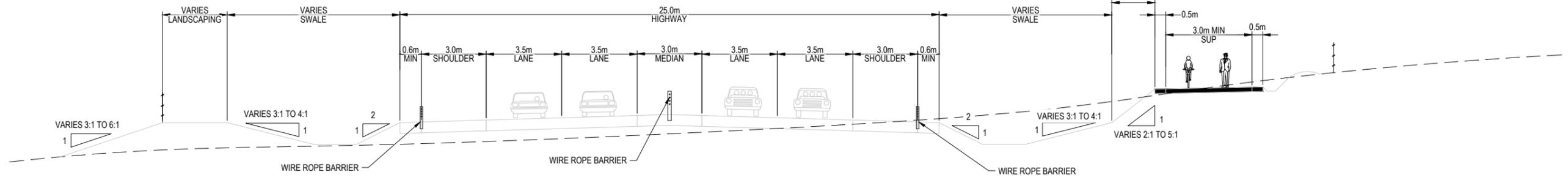


NOT FOR CONSTRUCTION

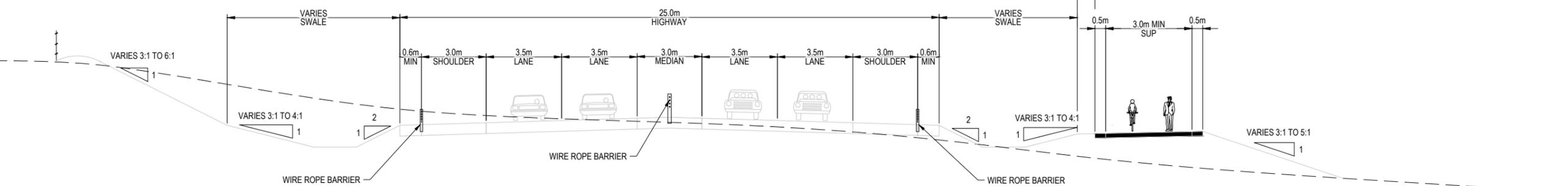
D VARIOUS UPDATES - ISSUED FOR RMA CONSENT C ISSUED FOR RMA CONSENT B ISSUED FOR CONSENT - DRAFT A ISSUED FOR CONSENT - DRAFT REV	MH	JP	JP	10.10.22	SURVEYED DESIGNED Steve Muller 30.11.21 DRAWN Steve Muller 30.11.21 CAD REVIEW Steve Sutton 08.12.21 DESIGN CHECK Jamie Povall 07.12.21 DESIGN REVIEW Keith Weale 14.04.22 APPROVED Jamie Povall 10.10.222 PROF REGISTRATION:		WAKA KOTAHI OTAKI TO NORTH OF LEVIN PROJECT  PLAN AND LONG SECTION SHEET 18	Status Stamp <b>FOR CONSENT</b> Date Stamp <b>10.10.22</b> Scales AS SHOWN Drawing No. <b>310203848-01-100-C1518</b>	Rev. <b>D</b>
	SS	KW	JP	19.08.22					
	SS	KW	JP	20.04.22					
	SS	KW	JP	09.12.21					
	DRN	CHK	APP	DATE					



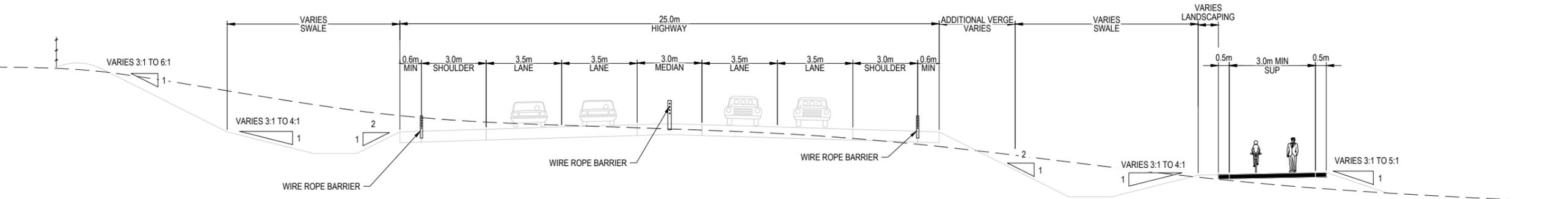
TYPICAL DETAIL A - SUP IN CUT  
SCALE 1 : 200 (A3)



TYPICAL DETAIL B - SUP AT GRADE  
SCALE 1 : 200 (A3)



TYPICAL DETAIL C - SUP ON FILL  
SCALE 1 : 200 (A3)



TYPICAL DETAIL D - SUP AT GRADE  
SCALE 1 : 200 (A3)

NOT FOR CONSTRUCTION

REV	REVISIONS	DRN	CHK	APP	DATE
E	ISSUED FOR RMA CONSENT	SS	KW	JP	19.08.22
D	ISSUED FOR CONSENT - DRAFT	SS	KW	JP	20.04.22
C	ISSUED FOR CONSENT - DRAFT	SS	KW	JP	09.12.21
B	ISSUED FOR CONSENTING - DRAFT REVIEW	SS	KW	JP	30.08.21
A	ISSUED FOR DBC	SS	KW	JP	18.06.21

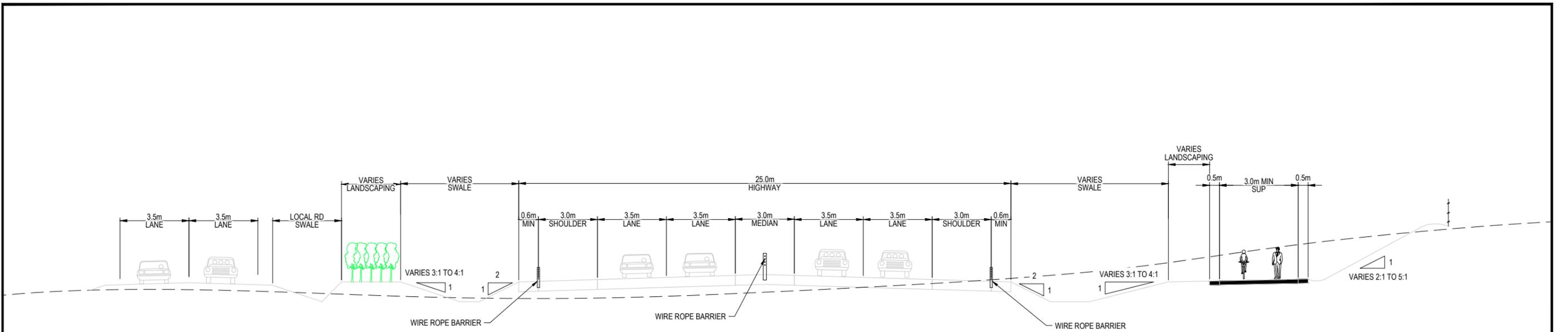
SURVEYED	DESIGNED	DRAWN	CAD REVIEW	DESIGN CHECK	DESIGN REVIEW	APPROVED	PROF REGISTRATION:
	Steve Muller	Reid Hermansen	Steve Sutton	Jamie Povall	Keith Weale	Jamie Povall	



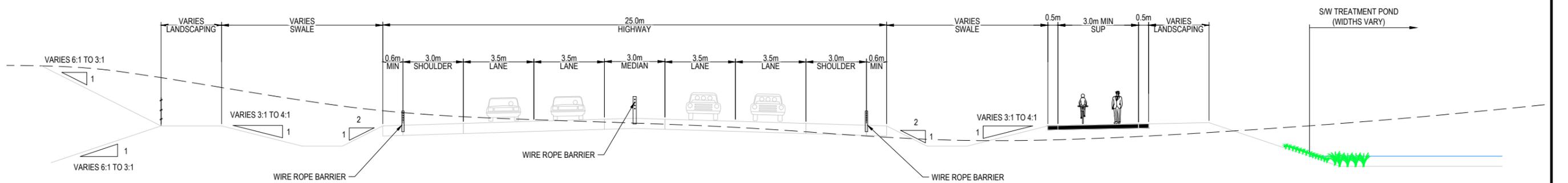
Client: WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT

TYPICAL SECTIONS  
SHEET 1

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scale	AS SHOWN
Drawing No.	310203848-01-100-C2000
Rev.	E



TYPICAL DETAIL I - HIGHWAY WITH LOCAL ROAD AND LANDSCAPING  
SCALE 1 : 200 (A3)



TYPICAL DETAIL K - HIGHWAY WITH NEAR S/W TREATMENT FACILITY  
SCALE 1 : 200 (A3)

NOT FOR CONSTRUCTION

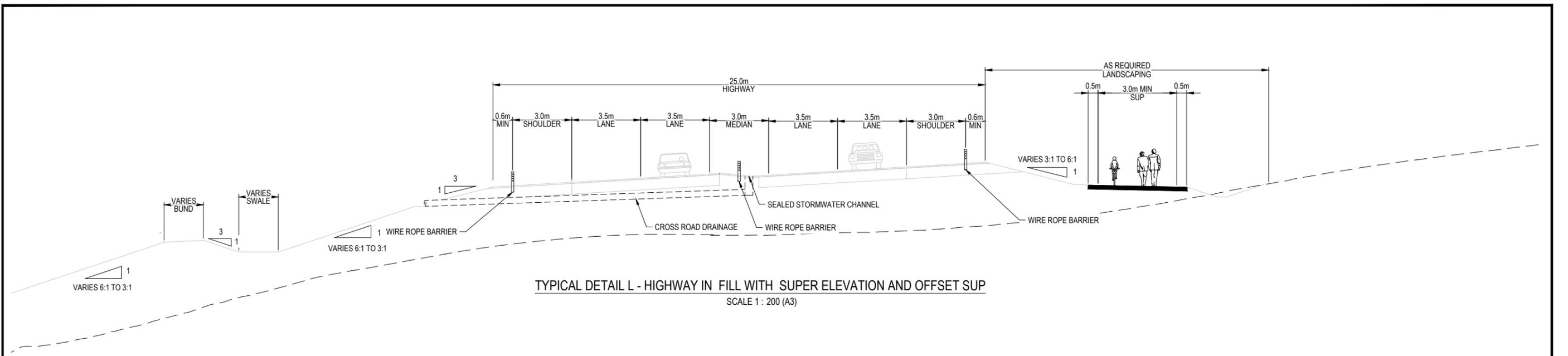
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E	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP	19.08.22
D	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP	20.04.22
C	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP	09.12.21
B	ISSUED FOR CONSENTING - DRAFT REVIEW	30.08.21	SS	KW	JP	30.08.21
A	ISSUED FOR DBC	18.06.21	SS	KW	JP	18.06.21

PROF REGISTRATION	DATE	NAME	ROLE
SURVEYED	18.06.21	Steve Muller	DESIGNED
DESIGNED	18.06.21	Steve Muller	DESIGNED
DRAWN	18.06.21	Reid Hermansen	DRAWN
CAD REVIEW	18.06.21	Steve Sutton	CAD REVIEW
DESIGN CHECK	07.12.21	Jamie Povall	DESIGN CHECK
DESIGN REVIEW	14.04.22	Keith Weale	DESIGN REVIEW
APPROVED	19.08.22	Jamie Povall	APPROVED

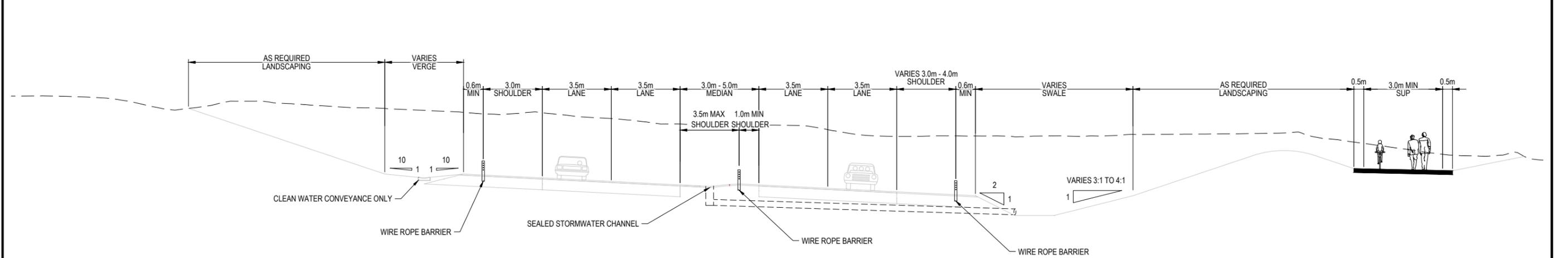


Client: WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
TYPICAL SECTIONS  
SHEET 2

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scale	AS SHOWN
Drawing No.	310203848-01-100-C2001
Rev.	E



TYPICAL DETAIL L - HIGHWAY IN FILL WITH SUPER ELEVATION AND OFFSET SUP  
SCALE 1 : 200 (A3)



TYPICAL DETAIL M - HIGHWAY IN CUT WITH SUPER ELEVATION AND OFFSET SUP AND MEDIAN WIDENING (BARRIER OFFSET)  
SCALE 1 : 200 (A3)

NOT FOR CONSTRUCTION

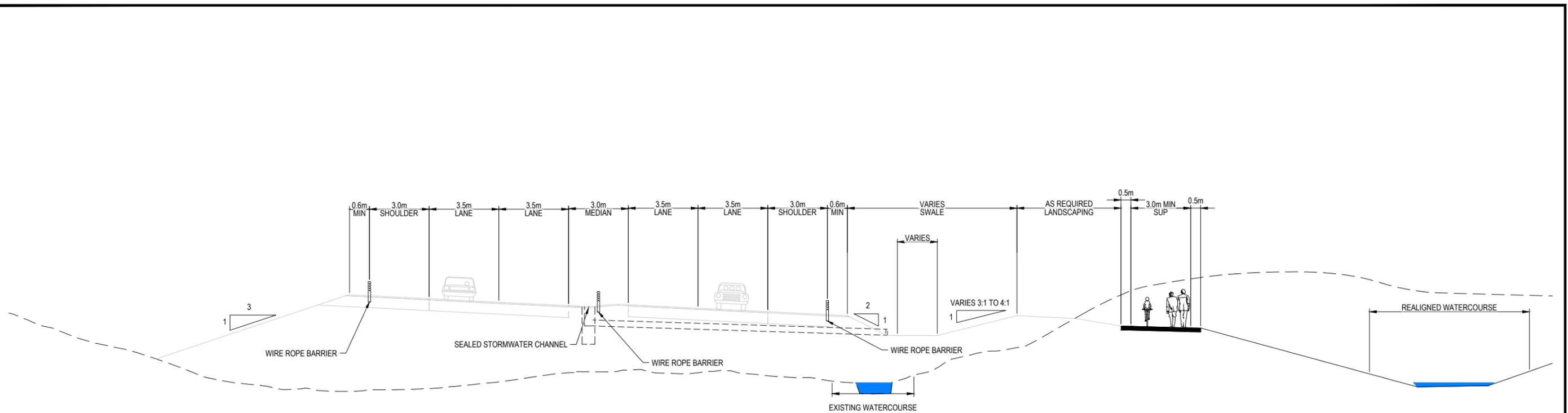
REV	ISSUED FOR	DATE	DRN	CHK	APP	DATE
E	ISSUED FOR RMA CONSENT	19.08.22	SS	KW	JP	19.08.22
D	ISSUED FOR CONSENT - DRAFT	20.04.22	SS	KW	JP	20.04.22
C	ISSUED FOR CONSENT - DRAFT	09.12.21	SS	KW	JP	09.12.21
B	ISSUED FOR CONSENTING - DRAFT REVIEW	30.08.21	SS	KW	JP	30.08.21
A	ISSUED FOR DBC	18.06.21	SS	KW	JP	18.06.21

SURVEYED	DESIGNED	DRAWN	CAD REVIEW	DESIGN CHECK	DESIGN REVIEW	APPROVED
	Steve Muller	Reid Hermansen	Steve Sutton	Jamie Povall	Keith Weale	Jamie Povall
	18.06.21	18.06.21	18.06.21	07.12.21	14.04.22	19.08.22

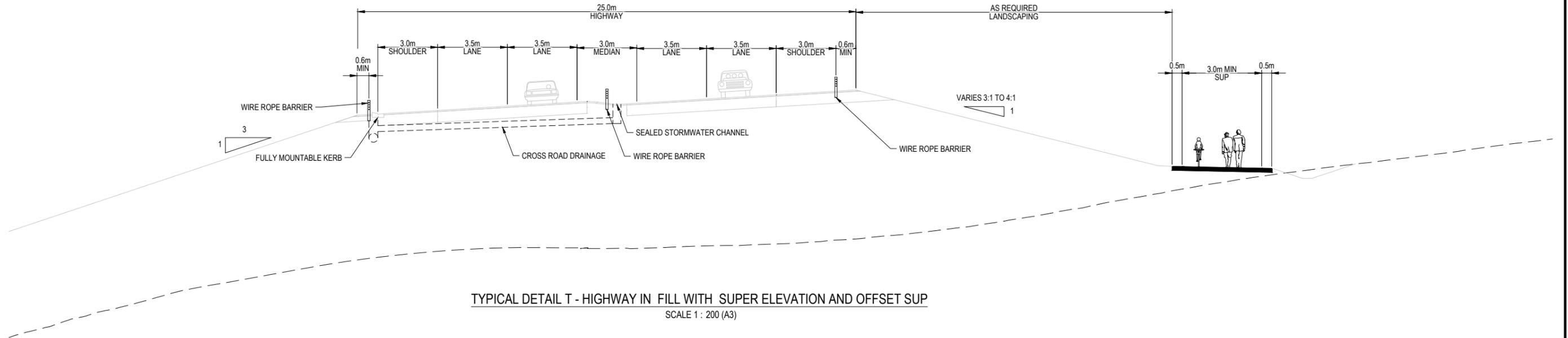


Client:  
WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
TYPICAL SECTIONS  
SHEET 3

Status Stamp	<b>FOR CONSENT</b>
Date Stamp	<b>19.08.22</b>
Scale	AS SHOWN
Drawing No.	310203848-01-100-C2002
Rev.	<b>E</b>



TYPICAL DETAIL S - HIGHWAY IN FILL WITH SUPER ELEVATION, OFFSET SUP AND REALIGNED WATERCOURSE  
SCALE 1 : 200 (A3)



TYPICAL DETAIL T - HIGHWAY IN FILL WITH SUPER ELEVATION AND OFFSET SUP  
SCALE 1 : 200 (A3)

NOT FOR CONSTRUCTION

REV	ISSUED FOR	DATE	DRN	CHK	APP	DATE
E	ISSUED FOR RMA CONSENT					
D	ISSUED FOR CONSENT - DRAFT					
C	ISSUED FOR CONSENT - DRAFT					
B	ISSUED FOR CONSENTING - DRAFT REVIEW					
A	ISSUED FOR DBC					

SURVEYED	DESIGNED	DRAWN	CAD REVIEW	DESIGN CHECK	DESIGN REVIEW	APPROVED
	Steve Muller	Reid Hermansen	Steve Sutton	Jamie Povall	Keith Weale	Jamie Povall



Client:  
WAKA KOTAHI  
OTAKI TO NORTH OF LEVIN PROJECT  
TYPICAL SECTIONS  
SHEET 4

Status Stamp	<b>FOR CONSENT</b>
Date Stamp	<b>19.08.22</b>
Scale	AS SHOWN
Drawing No.	310203848-01-100-C2003
Rev.	<b>E</b>