

- NOTES:**
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 - ALL DIMENSIONS AND DISTANCES ARE IN METRES UNLESS STATED OTHERWISE.

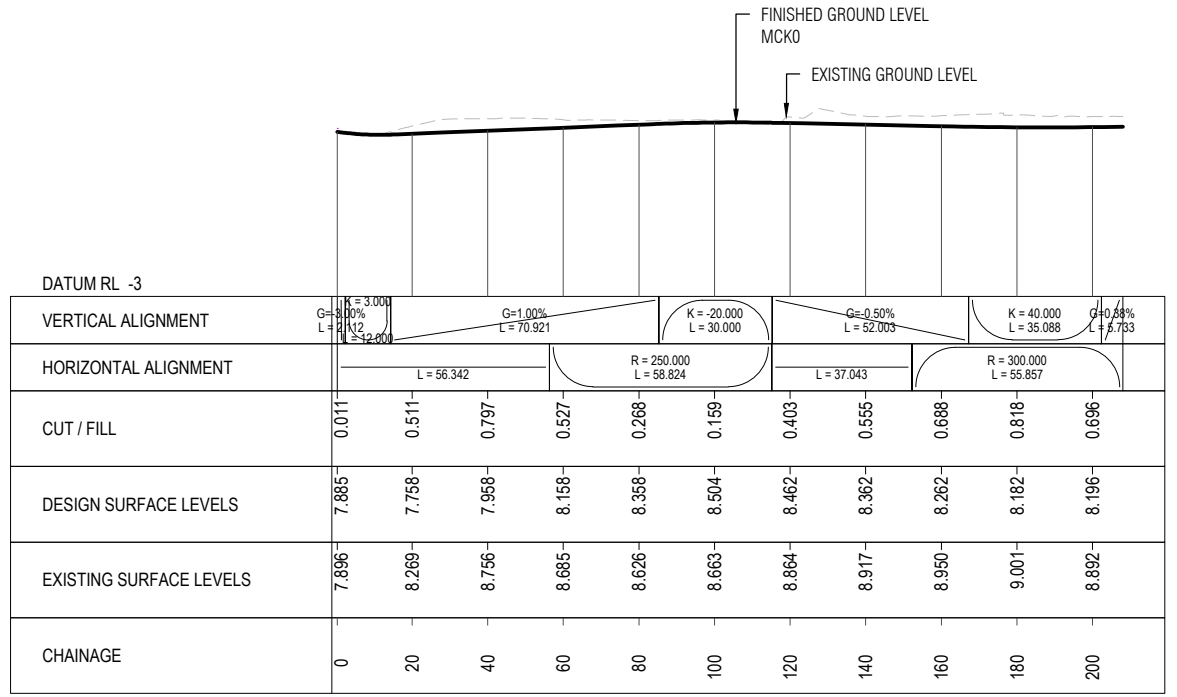
PLAN LEGEND:

- PROPERTY BOUNDARIES
- ALIGNMENT CONTROL STRING

LONGITUDINAL SECTION LEGEND:

- EXISTING SURFACE
- DESIGN SURFACE

PLAN - MCKO
Scale 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION - MCKO
Scale HOR 1:1000 (A1) VER 1:250 (A1)

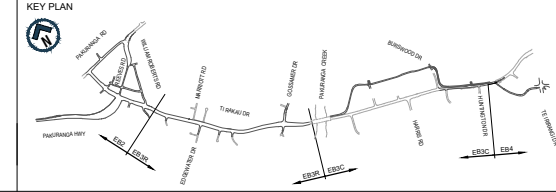
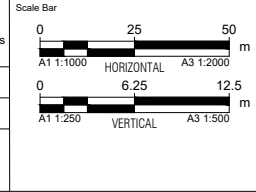
PACKAGE No. 2RD-00

NOT FOR CONSTRUCTION

ORIGINAL SIZE A1
 Plot By: SANTOSMR (3/31/2022 12:48:11 pm)
 Filename: EB-2-D-2-RD-DG-000301.DWG

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Designed	D. deAbreu	Checked	D. Angus
Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones	Approver Signature	
REV	DATE	DRAWN	REVISION DESCRIPTION
A	29/03/2022	M. Santos	ISSUED FOR STAGE 1 SUBMISSION



AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
 (PAKURANGA TO BOTANY)

Drawing Status
 Horizontal Datum
 NZGD 2000 MOUNT EDEN CIRCUIT
 Vertical Datum
 2016 NEW ZEALAND

ROADWORK GEOMETRIC DESIGN
 Design Title
TI RAKAU DRIVE RAMP
PLAN AND LONGITUDINAL SECTION
MCKO
 Drawing Number
EB-2-D-2-RD-DG-000315
 Revision
A

ORIGINAL IN COLOUR



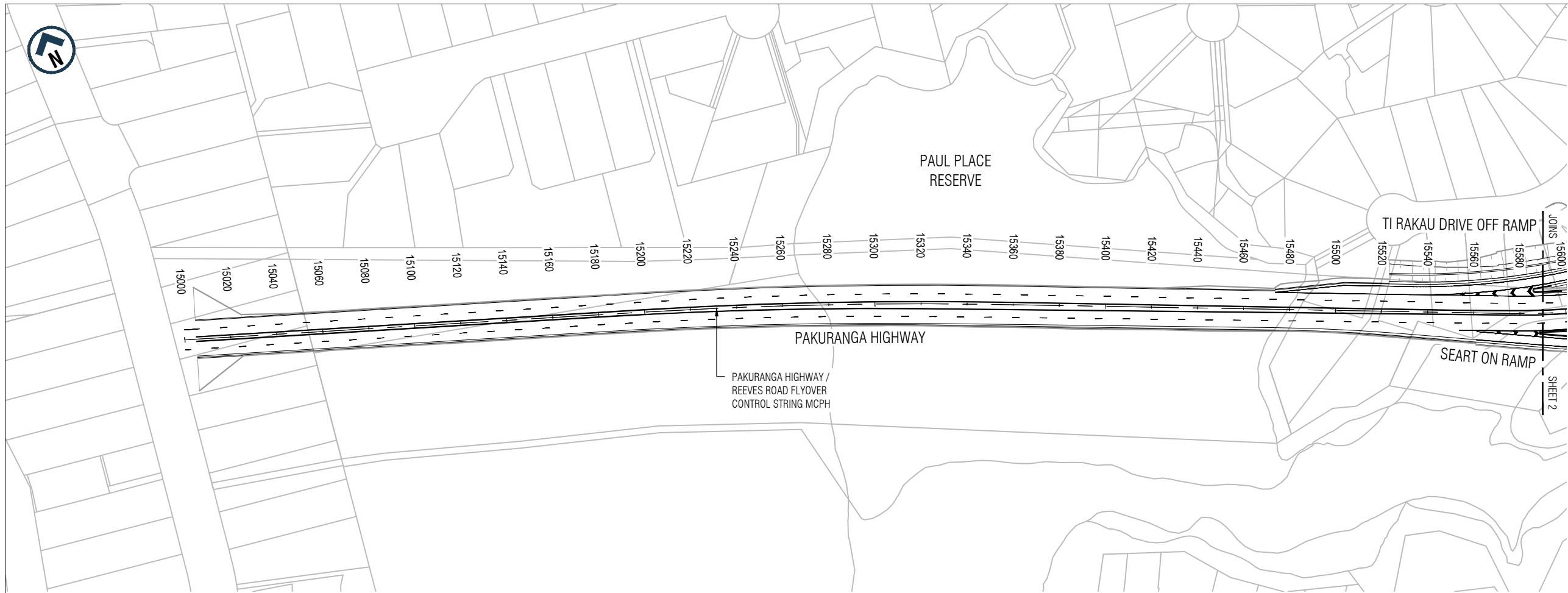
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PLAN LEGEND:

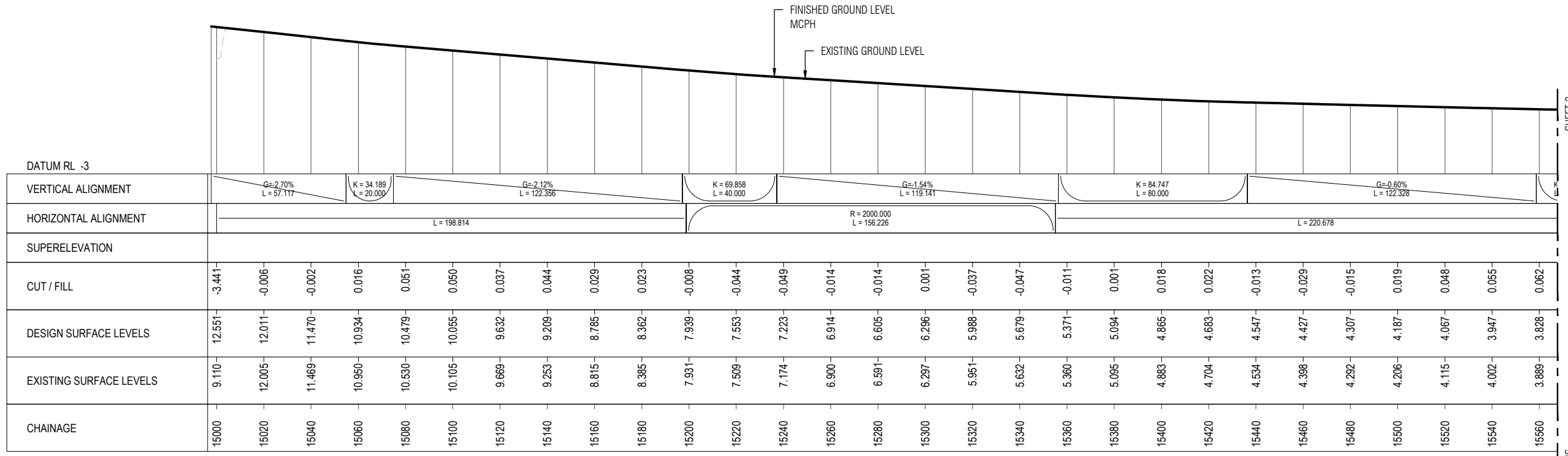
- PROPERTY BOUNDARIES
- ALIGNMENT CONTROL STRING

LONGITUDINAL SECTION LEGEND:

- EXISTING SURFACE
- DESIGN SURFACE



PLAN - MCPH
Scale 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION - MCPH
Scale HOR 1:1000 (A1) VER 1:250 (A1)

Filename: EB-2-D-2-RD-DG-000320-000322.DWG Plot By: SANTOSMR (3/31/2022 4:26:02 pm)

ORIGINAL SIZE A1

PACKAGE No. 2RD-00

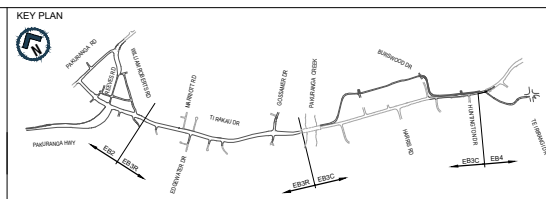
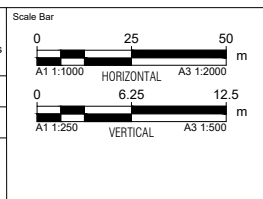
NOT FOR CONSTRUCTION

A	29/03/2022	M. Santos	ISSUED FOR STAGE 1 SUBMISSION
REV	DATE	DRAWN	REVISION DESCRIPTION

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Designed	D. deAbrew	Checked	D. Angus
Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones		
Date	29/03/2022		

Approver Signature



AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)

Drawing Status	Horizontal Datum
NZGD 2000 MOUNT EDEN CIRCUIT	2016 NEW ZEALAND
A1 SCALE AS SHOWN	A3 SCALE AS SHOWN

Design Package	Drawing Title
ROADWORK GEOMETRIC DESIGN	PAKURANGA HWY / REEVES RD FLYOVER PLAN AND LONGITUDINAL SECTION MCPH - SHEET 1 OF 3
Drawing Number	Revision
EB-2-D-2-RD-DG-000320	A

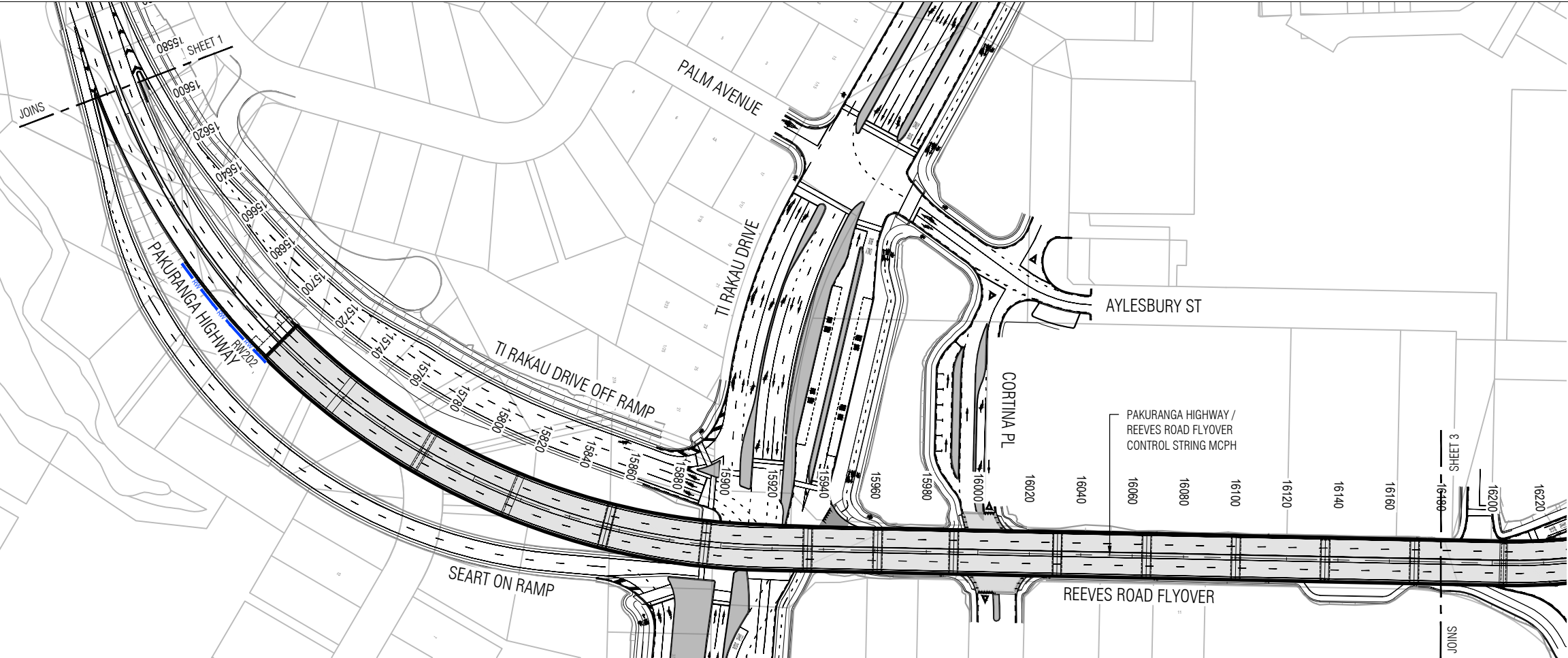
ORIGINAL IN COLOUR



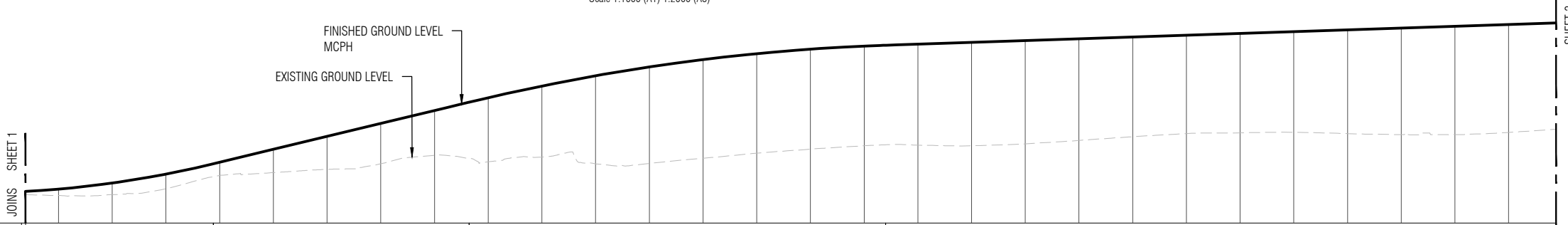
- NOTES:**
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- PLAN LEGEND:**
- PROPERTY BOUNDARIES
 - ALIGNMENT CONTROL STRING

- LONGITUDINAL SECTION LEGEND:**
- EXISTING SURFACE
 - DESIGN SURFACE



PLAN - MCPH
Scale 1:1000 (A1) 1:2000 (A3)



DATUM RL 1																														
VERTICAL ALIGNMENT		K = 15.000 L = 99.000					G = 6.00% L = 95.228					K = -30.000 L = 155.118					G = 0.83% L = 358.237													
HORIZONTAL ALIGNMENT		R = 275.000 L = 341.585																												
SUPERELEVATION		-3.0% Left -3.0% Right																												
CUT / FILL		-0.295	-0.600	-1.088	-1.359	-1.231	-2.164	-3.067	-3.739	-4.150	-5.952	-6.591	-8.174	-8.959	-9.162	-9.242	-9.292	-9.263	-9.386	-9.603	-9.587	-9.444	-9.262	-9.138	-9.231	-9.353	-9.634	-9.892	-10.067	-10.027
DESIGN SURFACE LEVELS		3.942	4.157	4.722	5.553	6.649	7.849	9.049	10.249	11.449	12.641	13.726	14.679	15.498	16.184	16.737	17.156	17.442	17.618	17.784	17.950	18.116	18.282	18.448	18.613	18.779	18.945	19.111	19.277	19.443
EXISTING SURFACE LEVELS		3.647	3.557	3.634	4.194	5.418	5.685	5.982	6.510	7.299	6.688	7.135	6.504	6.540	7.022	7.494	7.864	8.179	8.233	8.181	8.363	8.672	9.020	9.309	9.382	9.427	9.311	9.219	9.210	9.416
CHAINAGE		15588	15600	15620	15640	15660	15680	15700	15720	15740	15760	15780	15800	15820	15840	15860	15880	15900	15920	15940	15960	15980	16000	16020	16040	16060	16080	16100	16120	16140

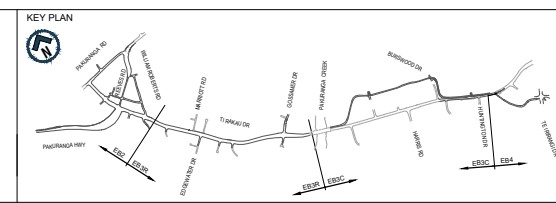
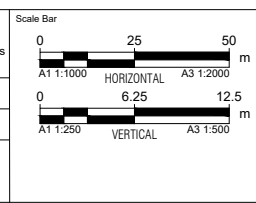
LONGITUDINAL SECTION - MCPH
Scale HOR 1:1000 (A1) VER 1:250 (A1)

Filename: EB-2-D-2-RD-DG-000320-000322.DWG Plot By: SANTOSMR (3/31/2022 4:26:02 pm)

PACKAGE No. 2RD-00

NOT FOR CONSTRUCTION

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Designed	D. deAbrew
Checked	D. Angus
Drawn	M. Santos
Checked	M. Dalvi
Approved	S. Jones
Date	29/03/2022
Approver Signature	



AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)

Drawing Status	
Horizontal Datum	NZGD 2000 MOUNT EDEN CIRCUIT
Vertical Datum	2016 NEW ZEALAND
A1 SCALE	AS SHOWN
A3 SCALE	AS SHOWN

ROADWORK GEOMETRIC DESIGN	
Drawing Title PAKURANGA HWY / REEVES RD FLYOVER	
PLAN AND LONGITUDINAL SECTION MCPH - SHEET 2 OF 3	
Drawing Number	EB-2-D-2-RD-DG-000321
Revision	A

ORIGINAL IN COLOUR



PAKURANGA TOWN CENTRE

PAKURANGA HIGHWAY / REEVES ROAD FLYOVER CONTROL STRING MCPH

PAKURANGA ROAD

REEVES ROAD FLYOVER

PAKURANGA COMMUNITY CENTRE

WILLIAM ROBERTS ROAD (NORTH)

AVR ROAD

REEVES ROAD

PLAN - MCPH

Scale 1:1000 (A1) 1:2000 (A3)

NOTES:

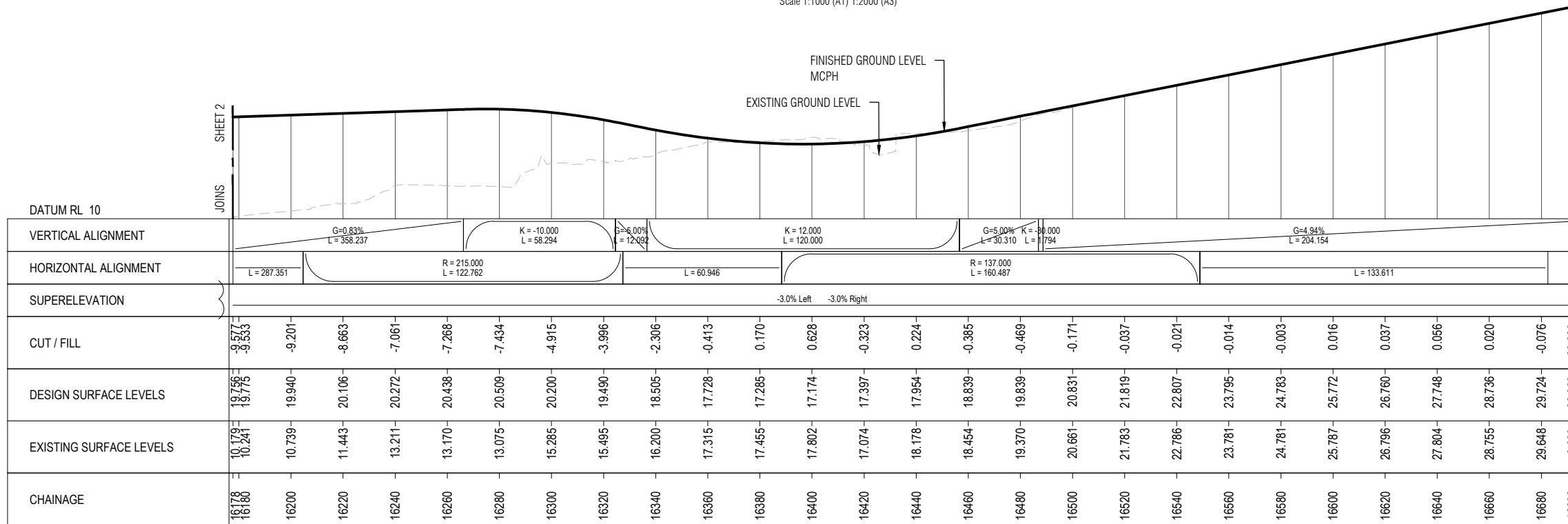
- DO NOT SCALE OFF THESE DRAWINGS.
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PLAN LEGEND:

- PROPERTY BOUNDARIES
- ALIGNMENT CONTROL STRING

LONGITUDINAL SECTION LEGEND:

- EXISTING SURFACE
- DESIGN SURFACE



LONGITUDINAL SECTION - MCPH

Scale HOR 1:1000 (A1) VER 1:250 (A1)

PACKAGE No. 2RD-00

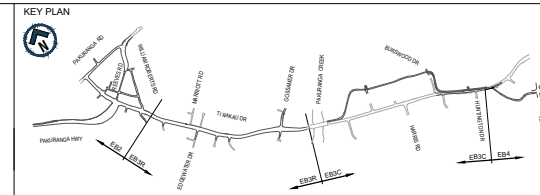
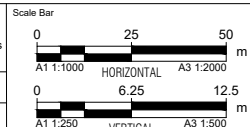
NOT FOR CONSTRUCTION

Filename: EB-2-D-2-RD-DG-000320-000322.DWG Plot By: SANTOSMR (3/31/2022 4:26:02 pm)

ORIGINAL SIZE A1

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Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones	Approver Signature	
Date	29/03/2022		



AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)



Drawing Status	Horizontal Datum	Vertical Datum
NZGD 2000 MOUNT EDEN CIRCUIT	2016 NEW ZEALAND	
A1 SCALE AS SHOWN	A3 SCALE AS SHOWN	

Design Package	Drawing Title	Drawing Number	Revision
ROADWORK GEOMETRIC DESIGN	PAKURANGA HWY / REEVES RD FLYOVER PLAN AND LONGITUDINAL SECTION MCPH - SHEET 3 OF 3	EB-2-D-2-RD-DG-000322	A

ORIGINAL IN COLOUR



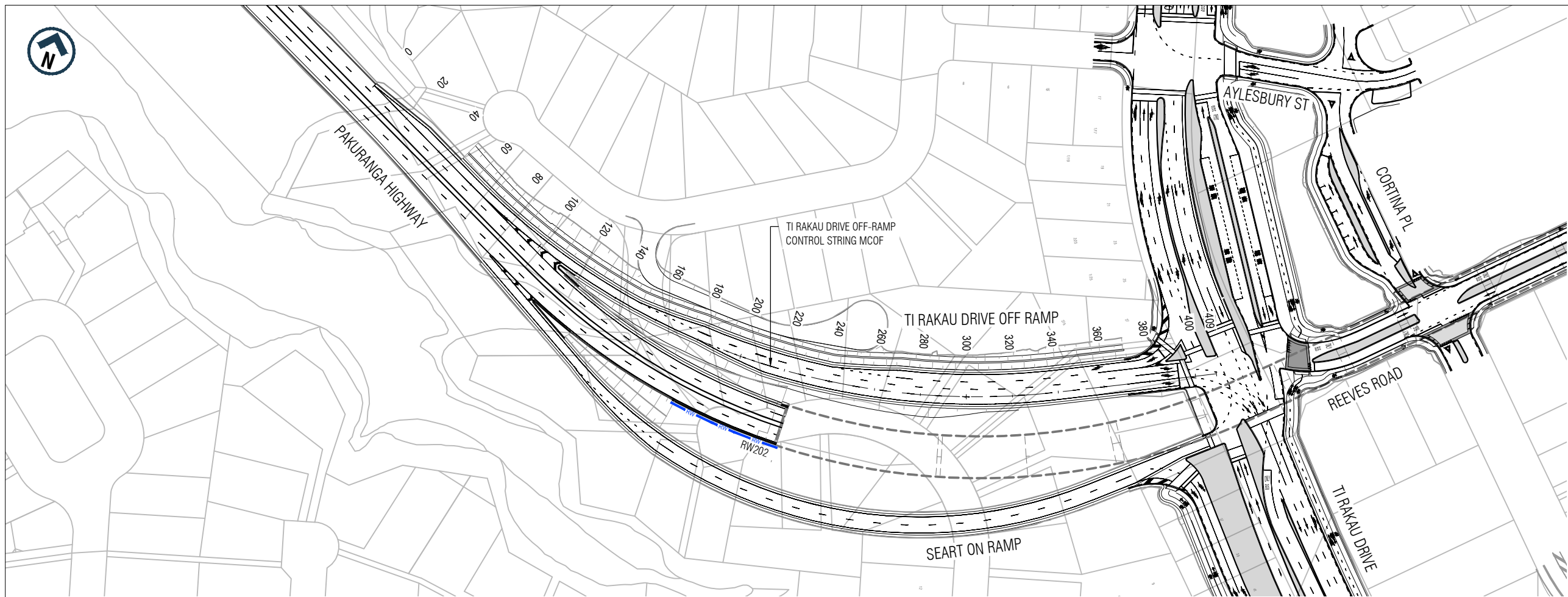
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PLAN LEGEND:

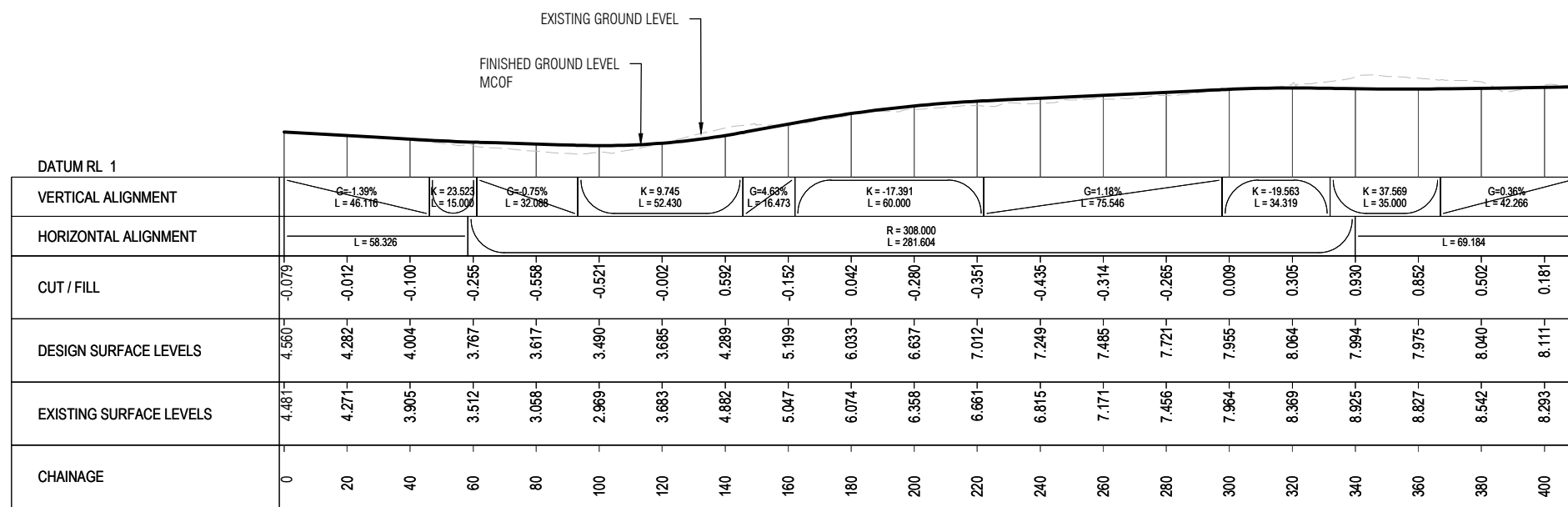
— — — — — PROPERTY BOUNDARIES
 - - - - - ALIGNMENT CONTROL STRING

LONGITUDINAL SECTION LEGEND:

— — — — — EXISTING SURFACE
 ————— DESIGN SURFACE



PLAN - MCOF
 Scale 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION - MCOF
 Scale HOR 1:1000 (A1) VER 1:250 (A1)

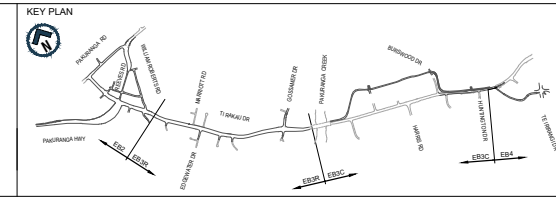
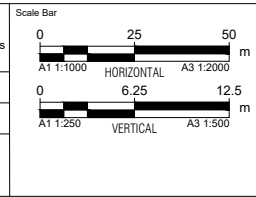
PACKAGE No. 2RD-00

NOT FOR CONSTRUCTION

ORIGINAL SIZE A1
 File Name: EB-2-D-2-RD-DG-000301.DWG
 Plot By: SANTOSMR (3/31/2022 12:48:11 pm)

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Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones		
Date	29/03/2022	Approver Signature	

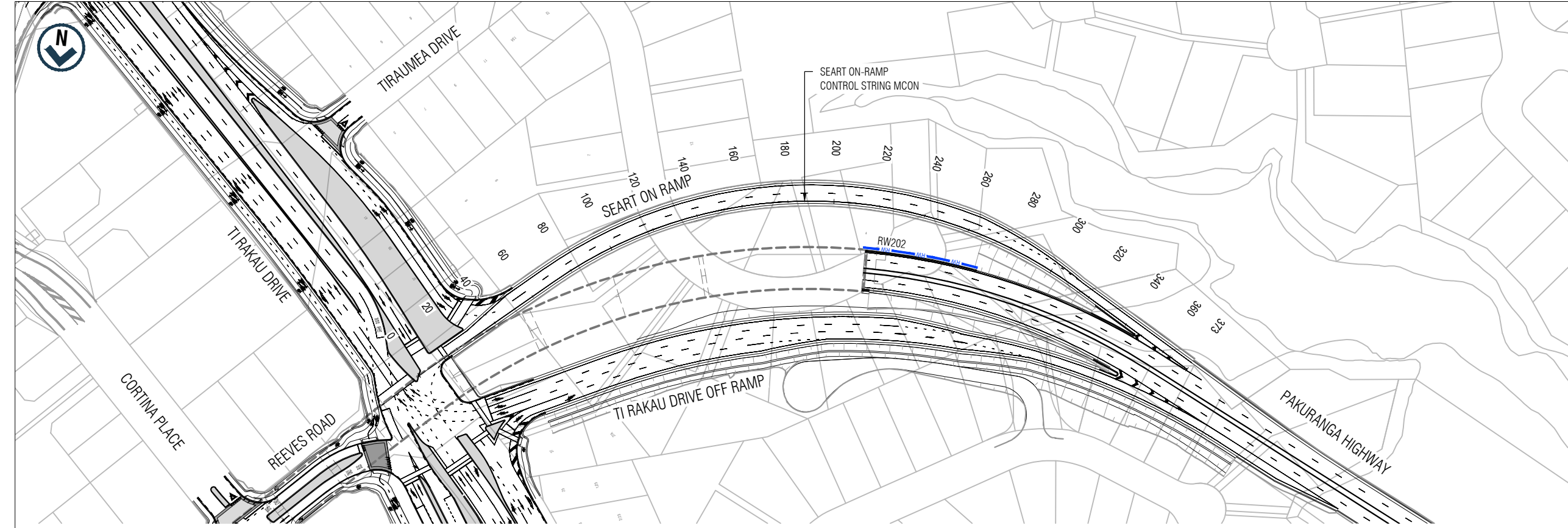


AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
 (PAKURANGA TO BOTANY)

Drawing Status		Design Package	
Horizontal Datum		Drawing Title	
NZGD 2000 MOUNT EDEN CIRCUIT		TI RAKAU DRIVE OFF-RAMP	
Vertical Datum		PLAN AND LONGITUDINAL SECTION	
2016 NEW ZEALAND		MCOF	
A1 SCALE	AS SHOWN	A3 SCALE	AS SHOWN
Drawing Number		Revision	
EB-2-D-2-RD-DG-000325		A	

Design Package		Drawing Title	
ROADWORK GEOMETRIC DESIGN		TI RAKAU DRIVE OFF-RAMP	
		PLAN AND LONGITUDINAL SECTION	
		MCOF	
Drawing Number		Revision	
EB-2-D-2-RD-DG-000325		A	





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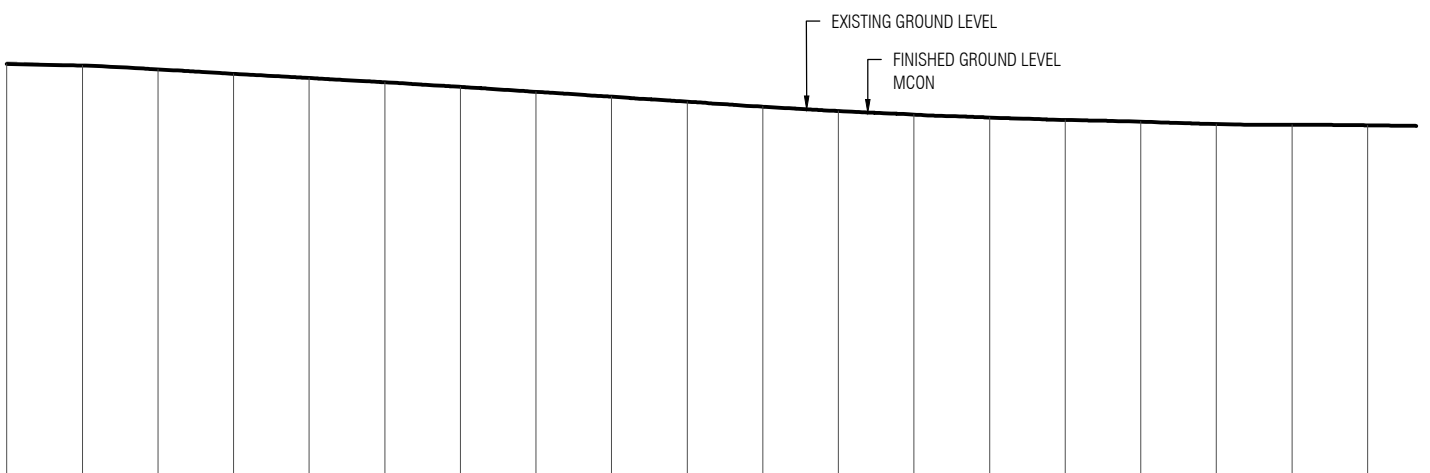
PLAN LEGEND:

- PROPERTY BOUNDARIES
- ALIGNMENT CONTROL STRING

LONGITUDINAL SECTION LEGEND:

- EXISTING SURFACE
- DESIGN SURFACE

PLAN - MCON
Scale 1:1000 (A1) 1:2000 (A3)



DATUM RL -20	
VERTICAL ALIGNMENT	G = 0.51% L = 18.848
HORIZONTAL ALIGNMENT	L = 71.393, R = 195.900, L = 241.905, L = 59.556
CUT / FILL	0.153, 0.038, -0.000, -0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, -0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, -0.040, -0.048
DESIGN SURFACE LEVELS	8.055, 7.951, 7.696, 7.403, 7.130, 6.848, 6.543, 6.218, 5.894, 5.568, 5.235, 4.950, 4.713, 4.521, 4.360, 4.240, 4.085, 4.042, 4.004
EXISTING SURFACE LEVELS	8.208, 7.989, 7.696, 7.403, 7.130, 6.848, 6.543, 6.218, 5.985, 5.595, 5.235, 4.950, 4.713, 4.521, 4.360, 4.240, 4.085, 4.002, 3.955
CHAINAGE	0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360

LONGITUDINAL SECTION - MCON
Scale HOR 1:1000 (A1) VER 1:250 (A1)

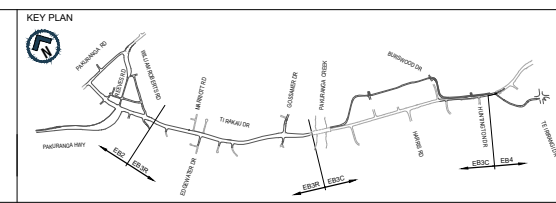
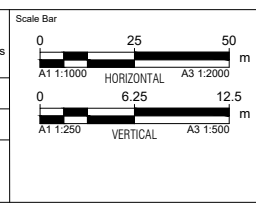
PACKAGE No. 2RD-00

NOT FOR CONSTRUCTION

Filename: EB-2-D-2-RD-DG-000301.DWG Plot By: SANTOSMR (3/31/2022 12:48:11 pm)

Designed	D. deAbrew	Checked	D. Angus
Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones	Approver Signature	
REV	DATE	DRAWN	REVISION DESCRIPTION
A	29/03/2022	M. Santos	ISSUED FOR STAGE 1 SUBMISSION

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AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)

Drawing Status		Design Package	
Horizontal Datum		Drawing Title	
2016 NEW ZEALAND		SEART ON-RAMP PLAN AND LONGITUDINAL SECTION MCON	
A1 SCALE	AS SHOWN	A3 SCALE	AS SHOWN

Drawing Number		Revision
EB-2-D-2-RD-DG-000326		A

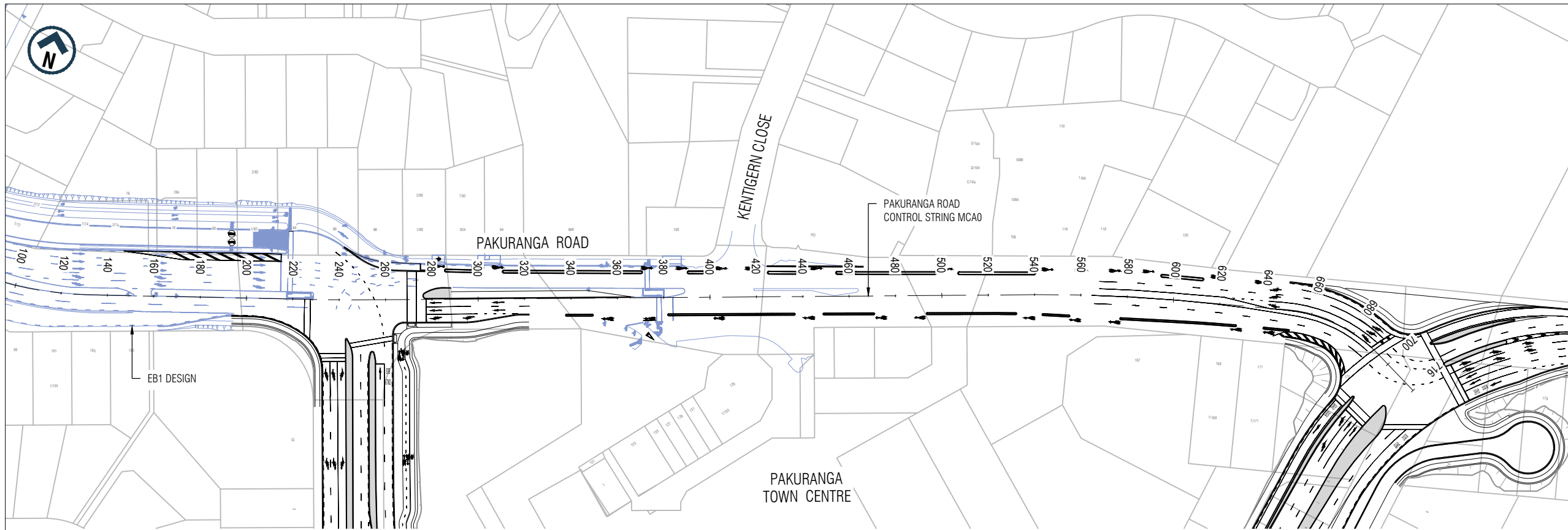
ORIGINAL IN COLOUR



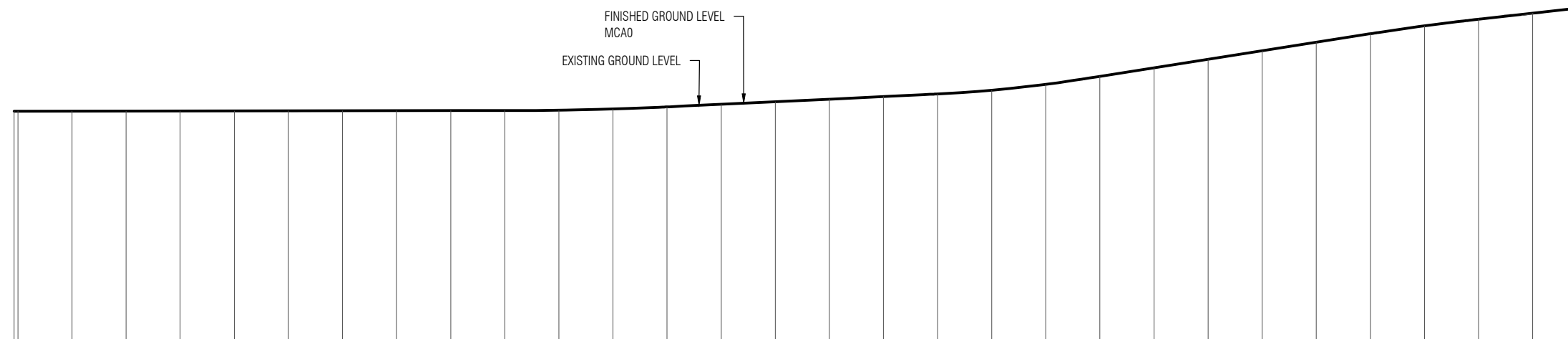
- NOTES:**
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- PLAN LEGEND:**
- PROPERTY BOUNDARIES
 - ALIGNMENT CONTROL STRING

- LONGITUDINAL SECTION LEGEND:**
- EXISTING SURFACE
 - DESIGN SURFACE



PLAN - MCAO
Scale 1:1000 (A1) 1:2000 (A3)



DATUM RL -13																																																							
VERTICAL ALIGNMENT		G=0.04% L = 188.023										K = 45.000 L = 51.899				G=1.19% L = 100.660				K = 20.000 L = 54.741				G=-3.93% L = 107.986				K = -30.000 L = 33.826		G=2.80% L = 39.921																									
HORIZONTAL ALIGNMENT		L = 95.027		R = 1000.000 L = 28.148		L = 285.029																												R = 650.000 L = 60.982		L = 47.844		R = 60.000 L = 43.162		L = 23.071															
CUT / FILL		0.000	-0.002	-0.029	0.000	-0.005	0.009	-0.073	-0.039	-0.032	-0.022	0.015	0.005	0.004	0.001	-0.011	-0.021	-0.017	-0.025	-0.030	-0.051	-0.021	-0.054	-0.076	-0.037	-0.000	-0.024	-0.023	0.040	0.114	-0.060																								
DESIGN SURFACE LEVELS		9.027	9.026	9.035	9.043	9.050	9.058	9.065	9.072	9.080	9.087	9.095	9.122	9.233	9.433	9.671	9.909	10.147	10.386	10.624	10.970	11.516	12.253	13.038	13.824	14.609	15.395	16.180	16.911	17.513	18.073																								
EXISTING SURFACE LEVELS		9.027	9.026	9.007	9.043	9.045	9.067	8.992	9.034	9.048	9.065	9.110	9.127	9.237	9.434	9.660	9.888	10.130	10.361	10.594	10.919	11.495	12.199	12.962	13.787	14.609	15.371	16.158	16.952	17.627	18.013																								
CHAINAGE		139	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700																								

LONGITUDINAL SECTION - MCAO
Scale HOR 1:1000 (A1) VER 1:250 (A1)

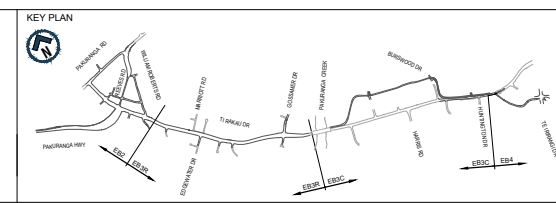
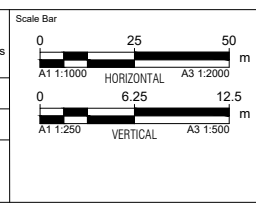
PACKAGE No. 2RD-00

NOT FOR CONSTRUCTION

File name: EB-2-D-2-RD-DG-000301.DWG Plot By: SANTOSMR (3/31/2022 6:09:06 pm)

REV	DATE	DRAWN	REVISION DESCRIPTION
A	29/03/2022	M. Santos	ISSUED FOR STAGE 1 SUBMISSION

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Designed	D. deAbrew	Checked	D. Angus
Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones	Approver Signature	
Date	29/03/2022		

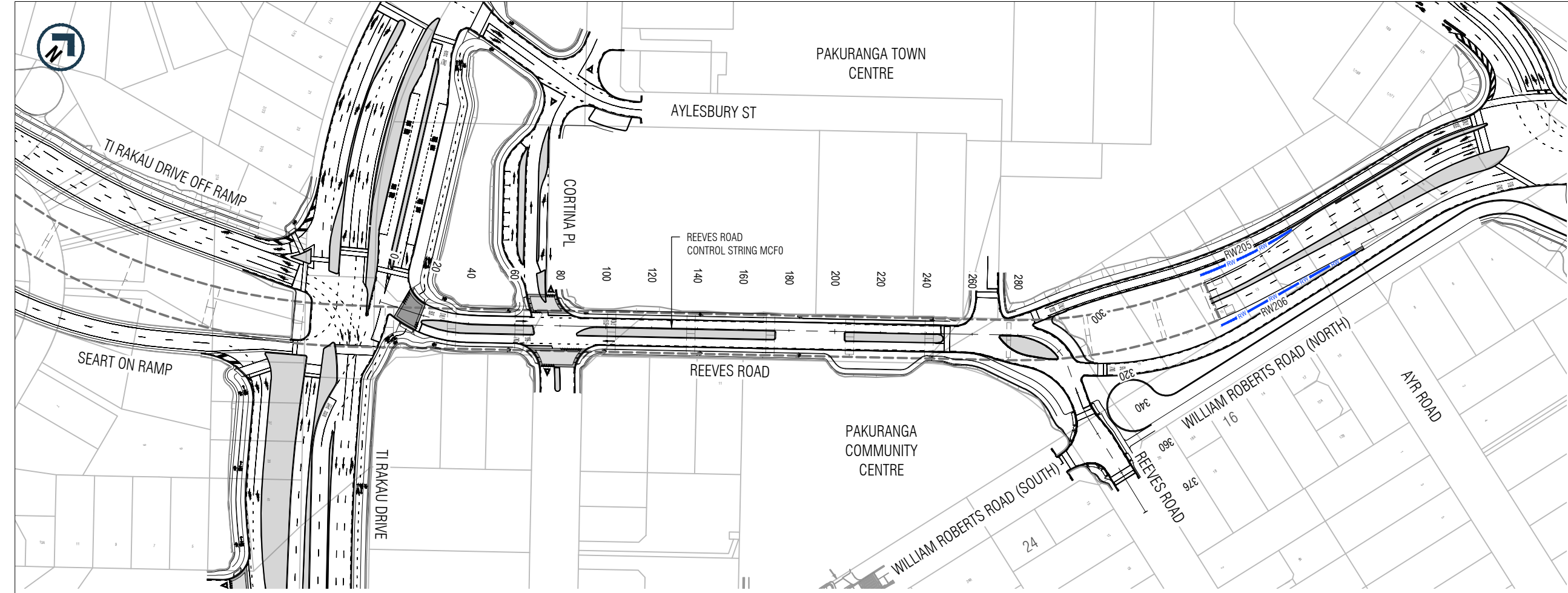


AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)

Drawing Status		Design Package	
Horizontal Datum NZGD 2000 MOUNT EDEN CIRCUIT		Drawing Title PAKURANGA ROAD PLAN AND LONGITUDINAL SECTION MCAO	
Vertical Datum 2016 NEW ZEALAND		Drawing Number EB-2-D-2-RD-DG-000330	
A1 SCALE	AS SHOWN	A3 SCALE	AS SHOWN

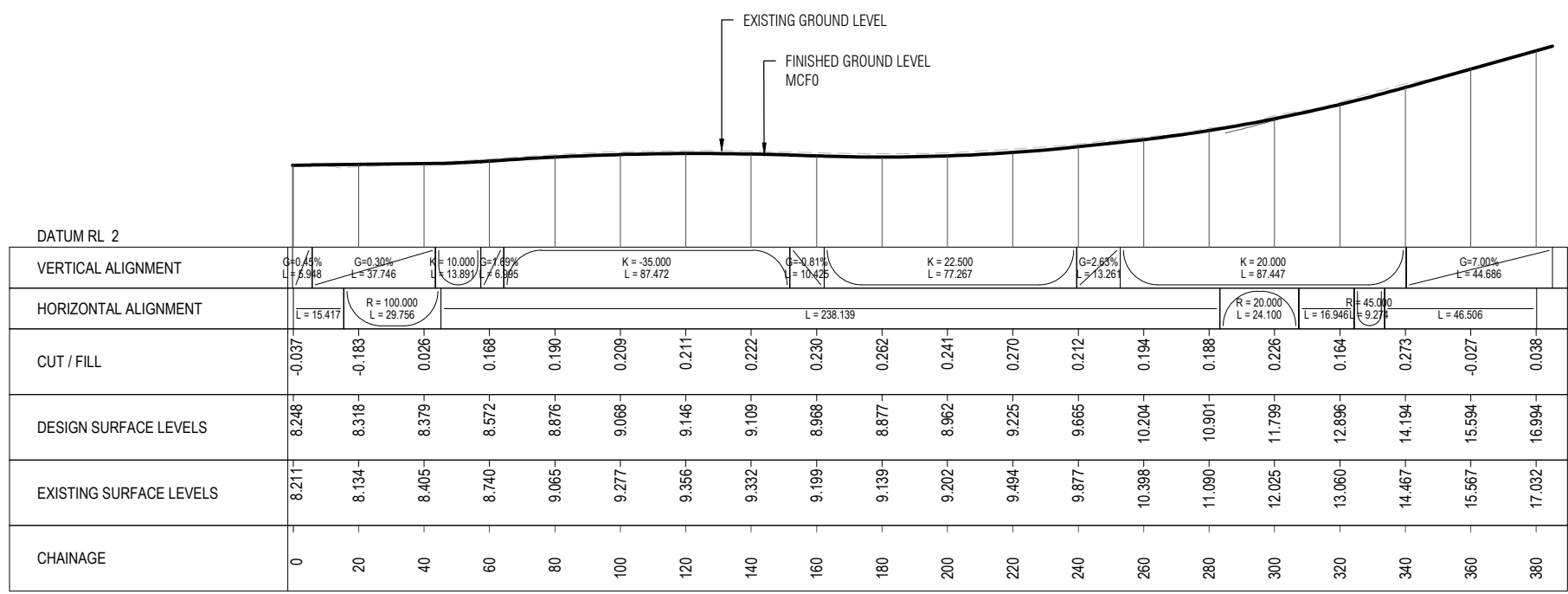
Revision	
A	

ORIGINAL IN COLOUR



- NOTES:**
- DO NOT SCALE OFF THESE DRAWINGS.
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- PLAN LEGEND:**
- PROPERTY BOUNDARIES
 - ALIGNMENT CONTROL STRING
- LONGITUDINAL SECTION LEGEND:**
- EXISTING SURFACE
 - DESIGN SURFACE

PLAN - MCFO
Scale 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION - MCFO
Scale HOR 1:1000 (A1) VER 1:250 (A1)

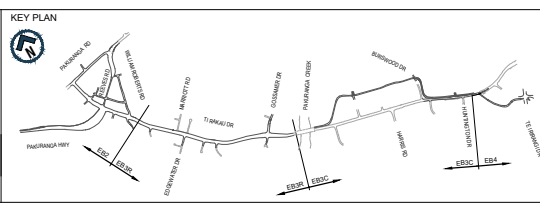
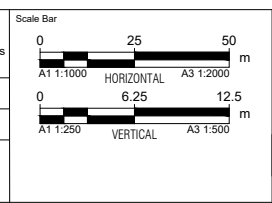
PACKAGE No. 2RD-00

NOT FOR CONSTRUCTION

ORIGINAL SIZE A1
 Plot By: SANTOSMR (3/31/2022 12:48:11 pm)
 Filename: EB-2-D-2-RD-DG-000301.DWG

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Designed	D. deAbrew	Checked	D. Angus
Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones	Approver Signature	
REV	DATE	DRAWN	REVISION DESCRIPTION
A	29/03/2022	M. Santos	ISSUED FOR STAGE 1 SUBMISSION

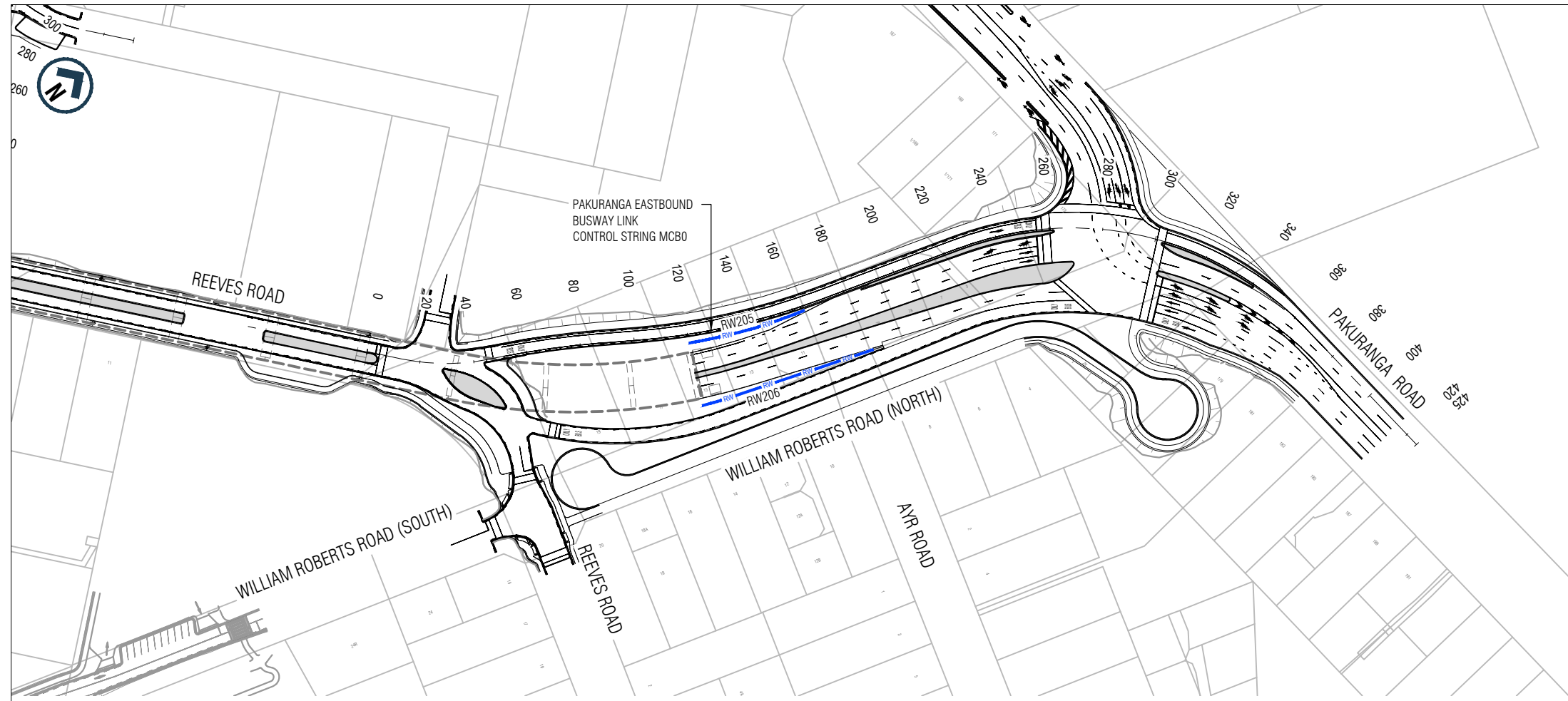


AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)

Drawing Status		Design Package	
Horizontal Datum NZGD 2000 MOUNT EDEN CIRCUIT		Drawing Title REEVES ROAD PLAN AND LONGITUDINAL SECTION MCFO	
Vertical Datum 2016 NEW ZEALAND		Drawing Number EB-2-D-2-RD-DG-000335	
A1 SCALE	AS SHOWN	A3 SCALE	AS SHOWN

Revision	
A	

ORIGINAL IN COLOUR



PLAN - MCB0
Scale 1:1000 (A1) 1:2000 (A3)

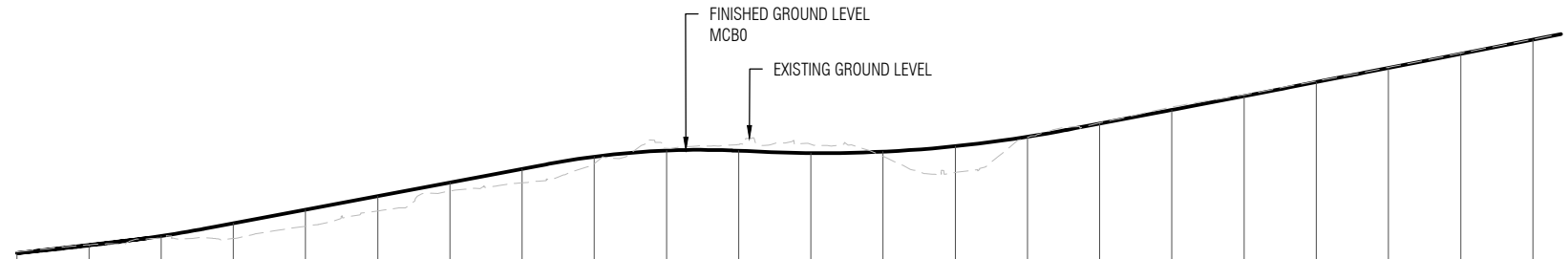
- NOTES:**
- DO NOT SCALE OFF THESE DRAWINGS.
 - ALL DIMENSIONS AND DISTANCES ARE IN METRES UNLESS STATED OTHERWISE.

PLAN LEGEND:

- PROPERTY BOUNDARIES
- ALIGNMENT CONTROL STRING

LONGITUDINAL SECTION LEGEND:

- EXISTING SURFACE
- DESIGN SURFACE



DATUM RL 7		G=2.88% L=29.917		K=12.000 L=21.773		G=4.70% L=95.186		K=-9.000 L=51.272		G=-1.00% L=10.773		K=14.222 L=81.605		G=4.74% L=29.377		K=293.322 L=29.989		K=293.322 L=20.011		G=4.91% L=57.786			
VERTICAL ALIGNMENT																							
HORIZONTAL ALIGNMENT		L=12.989	R=80.000 L=31.982	L=6.41	R=320.000 L=36.134	L=13.581	R=250.000 L=69.486	L=54.983		R=120.000 L=139.889											L=59.586		
CUT / FILL		0.099	0.010	-0.140	-1.054	-1.142	-1.028	-0.585	-0.954	-0.487	0.152	0.430	0.597	-0.323	-1.811	-0.044	0.057	0.196	0.089	0.068	0.039	0.038	0.017
DESIGN SURFACE LEVELS		9.869	10.444	11.062	11.943	12.883	13.822	14.761	15.701	16.546	16.973	16.958	16.800	16.896	17.272	17.930	18.838	19.785	20.740	21.708	22.688	23.670	24.651
EXISTING SURFACE LEVELS		9.968	10.454	10.922	10.889	11.741	12.794	14.177	14.747	16.059	17.125	17.388	17.397	16.573	15.461	17.886	18.895	19.982	20.828	21.776	22.727	23.708	24.668
CHAINAGE		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420

LONGITUDINAL SECTION - MCB0
Scale HOR 1:1000 (A1) VER 1:250 (A1)

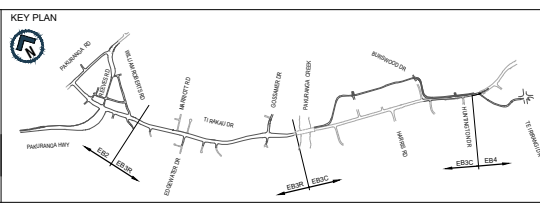
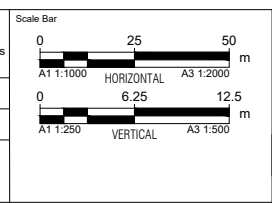
PACKAGE No. 2RD-00

NOT FOR CONSTRUCTION

File name: EB-2-D-2-RD-DG-000301.DWG
 Plot By: SANTOSMR (3/31/2022 12:48:11 pm)
 ORIGINAL SIZE A1
 ORIGINAL IN COLOUR

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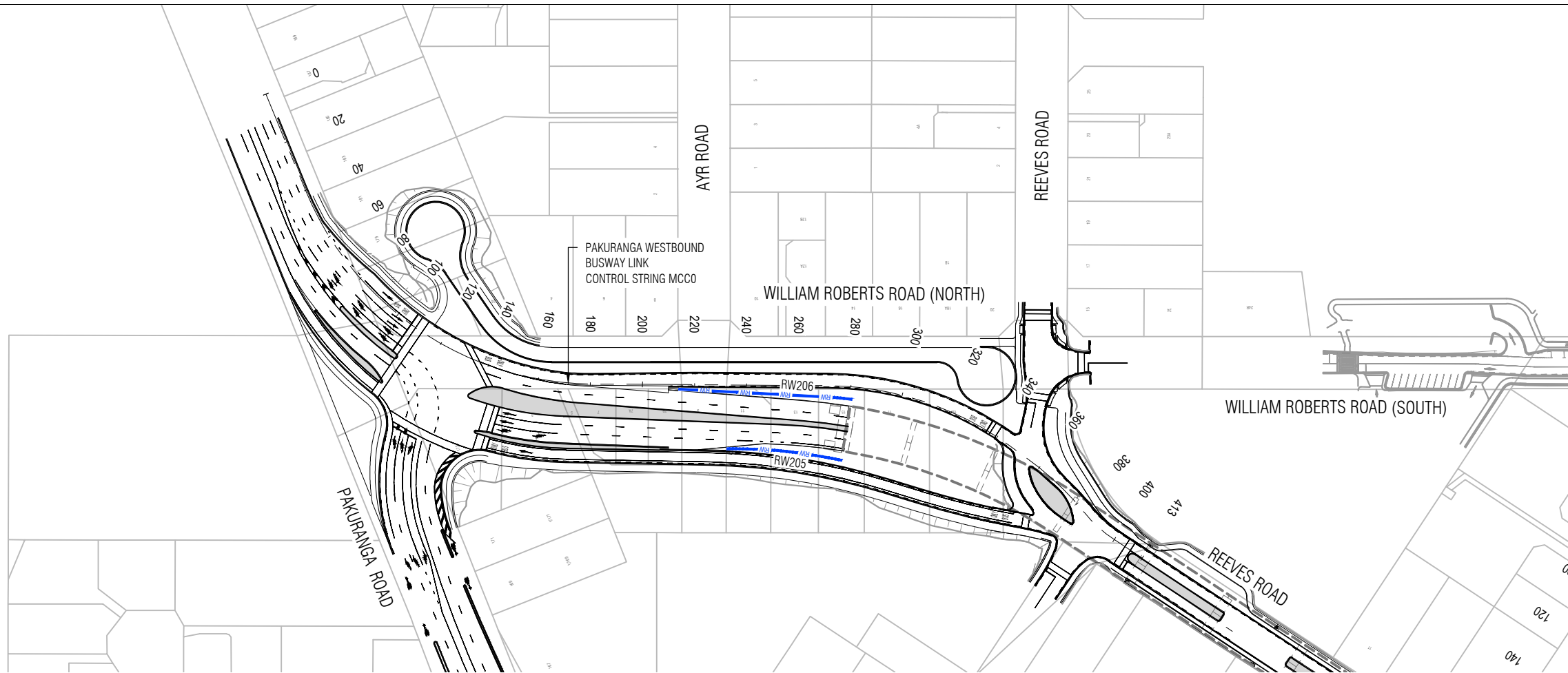
Designed	D. deAbrew	Checked	D. Angus
Drawn	M. Santos	Checked	M. Dalvi
Approved	S. Jones	Approver Signature	
REV	DATE	DRAWN	REVISION DESCRIPTION
A	29/03/2022	M. Santos	ISSUED FOR STAGE 1 SUBMISSION



AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)

Drawing Status		Design Package	
Horizontal Datum NZGD 2000 MOUNT EDEN CIRCUIT		Drawing Title PAKURANGA EASTBOUND BUSWAY LINK PLAN AND LONGITUDINAL SECTION MCB0	
Vertical Datum 2016 NEW ZEALAND		Drawing Number EB-2-D-2-RD-DG-000340	
A1 SCALE	AS SHOWN	A3 SCALE	AS SHOWN

Revision	



PLAN - MCCO
Scale 1:1000 (A1) 1:2000 (A3)

NOTES:

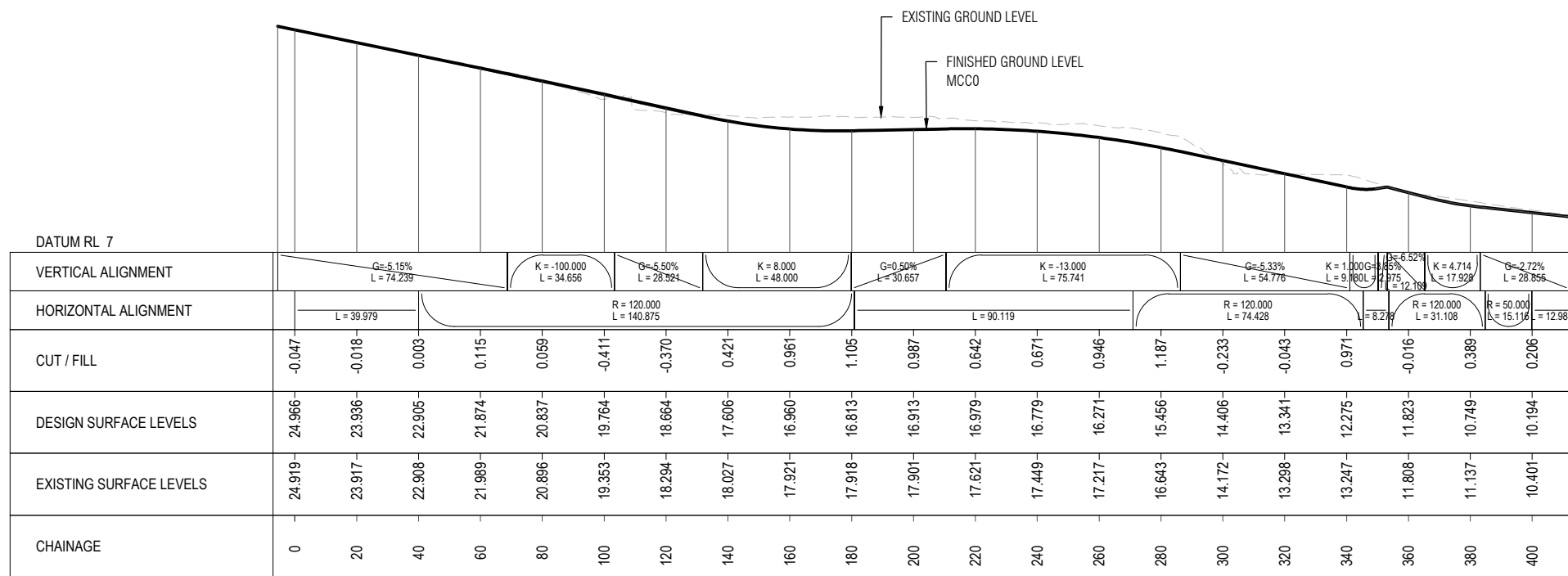
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PLAN LEGEND:

- PROPERTY BOUNDARIES
- ALIGNMENT CONTROL STRING

LONGITUDINAL SECTION LEGEND:

- EXISTING SURFACE
- DESIGN SURFACE



LONGITUDINAL SECTION - MCCO
Scale HOR 1:1000 (A1) VER 1:250 (A1)

PACKAGE No. 2RD-00

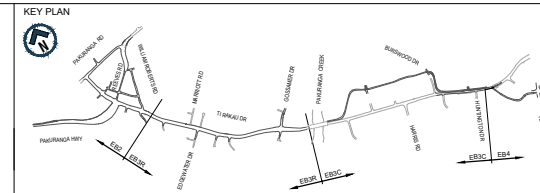
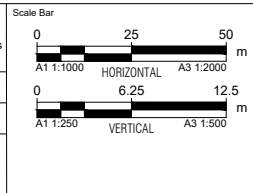
NOT FOR CONSTRUCTION

Filename: EB-2-D-2-RD-DG-000301.DWG Plot By: SANTOSMR (3/31/2022 12:48:11 pm)

ORIGINAL SIZE A1

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AUCKLAND MANUKAU EASTERN TRANSPORT INITIATIVE
EASTERN BUSWAY ALLIANCE
(PAKURANGA TO BOTANY)

Drawing Status		Design Package	
Horizontal Datum NZGD 2000 MOUNT EDEN CIRCUIT		Drawing Title PAKURANGA WESTBOUND BUSWAY LINK PLAN AND LONGITUDINAL SECTION MCCO	
Vertical Datum 2016 NEW ZEALAND		Drawing Number EB-2-D-2-RD-DG-000341	
A1 SCALE	AS SHOWN	A3 SCALE	AS SHOWN

Revision	
A	

ORIGINAL IN COLOUR