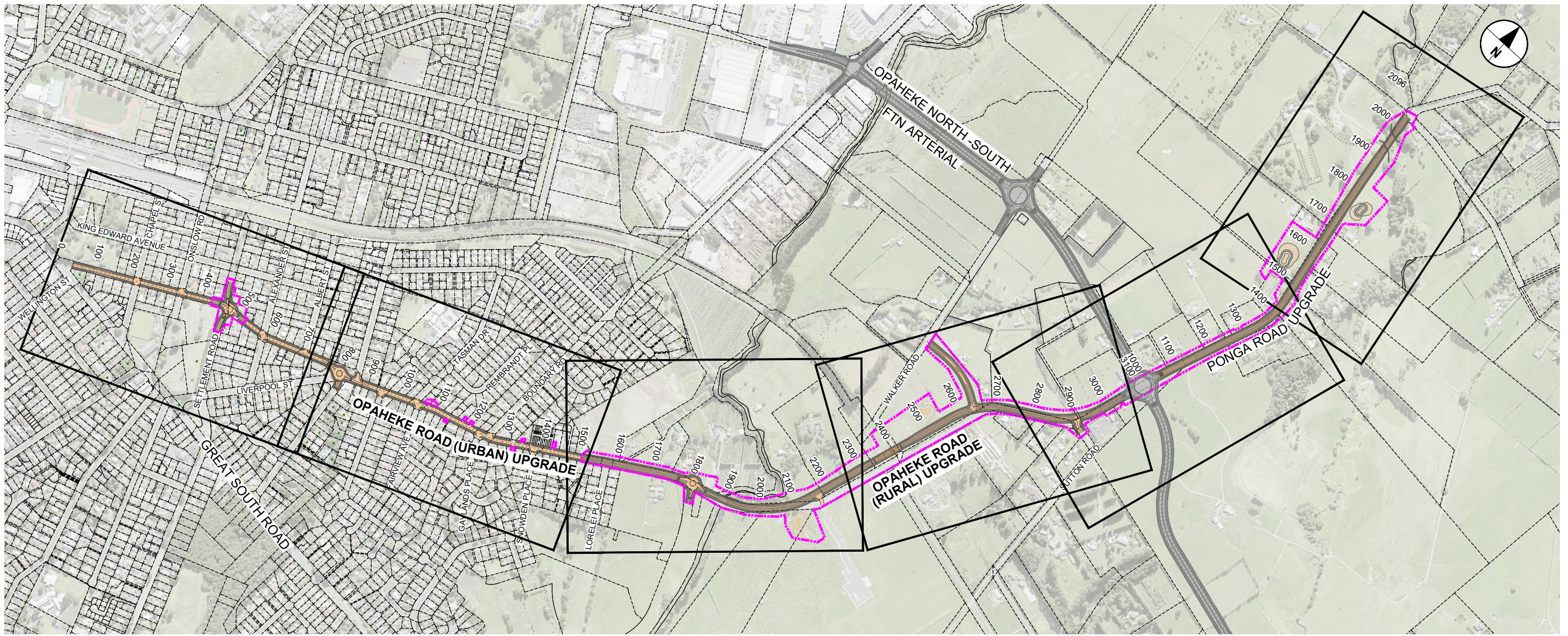


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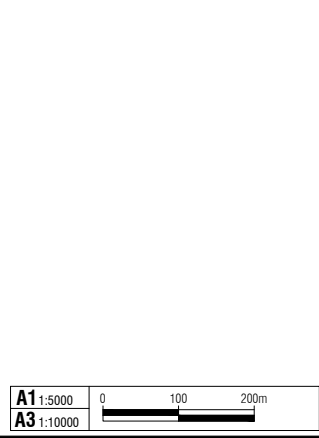


**NoR D5 LOCATION PLAN**  
SCALE 1:5000

**GENERAL**

- 1.1 NoR D5 INCLUDES THE FOLLOWING SECTIONS:
- PONGA ROAD UPGRADE
  - OPAHEKE ROAD (RURAL) UPGRADE
  - OPAHEKE ROAD (URBAN) UPGRADE
- 2.2 WORKS SHOWN OUTSIDE THE DESIGNATION BOUNDARY ARE NOT PROPOSED TO BE AUTHORISED AND WILL BE SUBJECT TO FURTHER APPROVALS PROCESSES IF REQUIRED IN THE FUTURE.

ORIGINAL SIZE A1



**NOT FOR CONSTRUCTION**

**FOR LODGEMENT**

Drawing Status:		<b>FOR LODGEMENT</b>	
Drawing Date:		27.01.2021	
A1 Scale:	1:5000	A3 Scale:	1:10000
Discipline: CIVIL			
Drawing No. SGA-DRG-STH-004-GE-7500			Revision <b>B</b>

REV	ISSUED FOR APPROVAL	DATE	DESIGN REVIEW	DATE	APPROVED	DATE
B	ISSUED FOR NoR LODGEMENT	18.12.2020	A. REVELL	18.12.2019		
A	ISSUED FOR APPROVAL	21.07.2020				
			R. MASON	27.01.2021		



Project: **SUPPORTING GROWTH PROGRAMME**

Drawing Title: **SUMMARY SHEET**







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**LEGEND GENERAL**

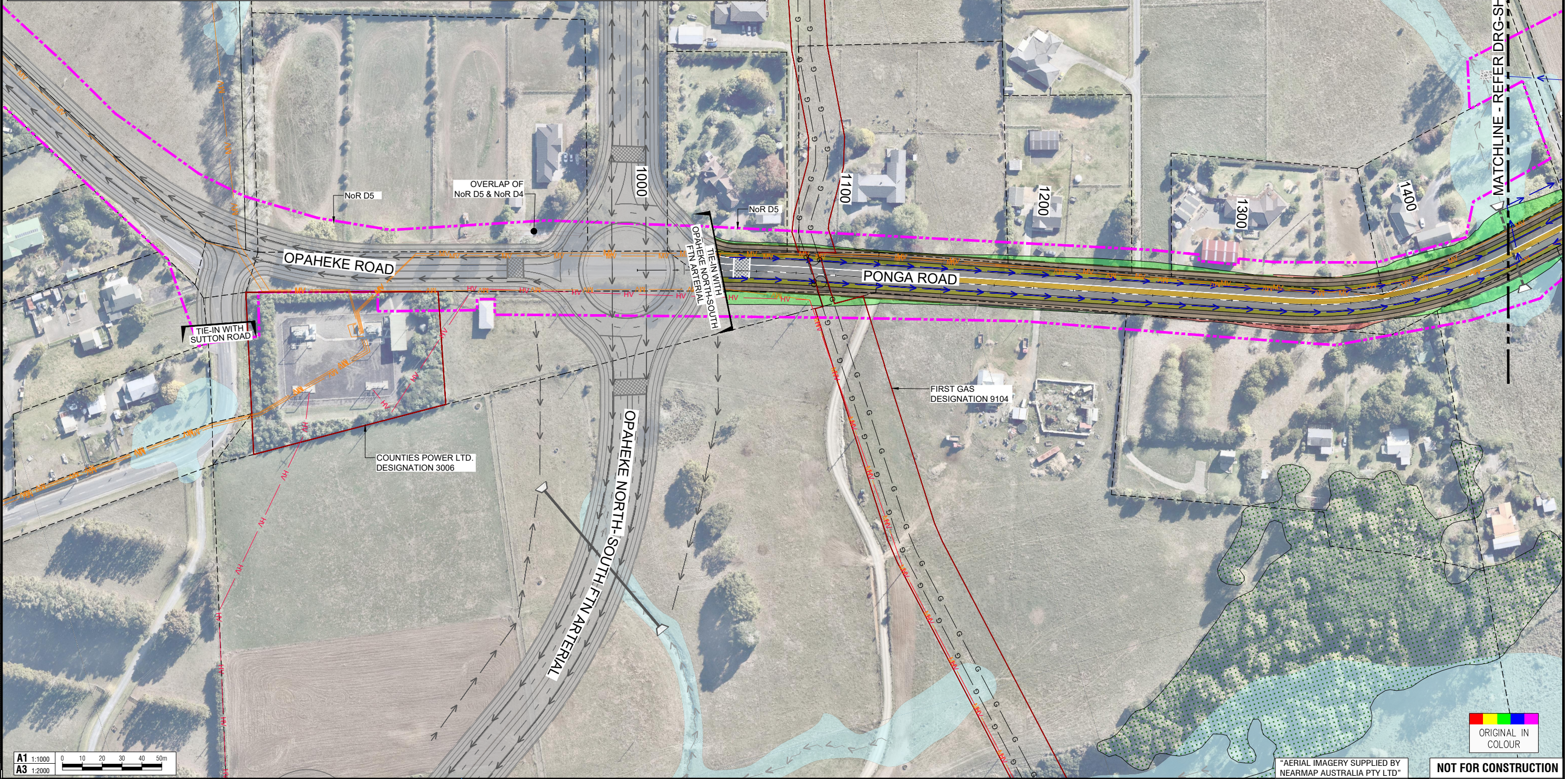
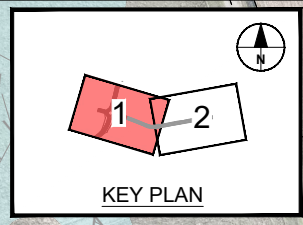
- +— CONTROL LINE AND CHAINAGE
- - - EXISTING PROPERTY BOUNDARY
- - - EXISTING DESIGNATION BOUNDARY
- - - PROPOSED DESIGNATION BOUNDARY
- ▬ PROPOSED ROAD CORRIDOR
- ▬ PROPOSED FOOTPATH
- ▬ PROPOSED CYCLEWAY
- ▬ PROPOSED BERM
- ▬ PROPOSED FLUSH MEDIAN, RAISED MEDIAN & TRAFFIC ISLAND
- ▬ PROPOSED BRIDGE (SUBJECT TO RESOURCE CONSENT)
- ▬ FILL BATTER
- ▬ CUT BATTER
- ▬ RAIL TRACK
- ▬ PROPOSED RETAINING WALL
- ▬ ACTIVE MODE CROSSING
- ▬ HISTORIC HERITAGE
- ▬ TERRESTRIAL SIGNIFICANT ECOLOGICAL AREA
- ▬ MARINE SIGNIFICANT ECOLOGICAL AREA
- ▬ 100 YR FLOOD PLAIN
- ▬ PRECINCT

**LEGEND STORMWATER**

- ▬ PROPOSED WETLAND
- ▬ PROPOSED CULVERT (SUBJECT TO RESOURCE CONSENT)
- ▬ PROPOSED HEADWALL
- ▬ PROPOSED RIP RAP
- ▬ PROPOSED SW PIPE
- ▬ INDICATIVE FLOW DIRECTION
- ▬ PROPOSED SWALE
- ▬ PROPOSED DIVERSION DRAIN
- ▬ PROPOSED OVERLAND FLOW PATH
- ▬ PROPOSED DRAIN CHANNEL
- ▬ EXISTING CULVERT
- ▬ EXISTING SW PIPE
- ▬ EXISTING OVERLAND FLOW PATH

**LEGEND EXISTING UTILITIES**

- ▬ FIRST GAS TRANSMISSION LINES
- ▬ WATERCARE (MAIN)
- ▬ TRANSPOWER OVERHEAD LINES
- ▬ COUNTIES POWER LOW VOLTAGE CABLE
- ▬ COUNTIES POWER MEDIUM VOLTAGE CABLE
- ▬ COUNTIES POWER HIGH VOLTAGE CABLE
- ▬ WASTEWATER (MAIN)
- ▬ SPARK FIBRE OPTIC



ORIGINAL SIZE A1

A1	1:1000
A3	1:2000

REV	DATE	DESCRIPTION	BY	CHKD	DATE
A	14.02.2020	DRAFT ISSUE FOR REVIEW	JDT		
B	28.02.2020	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	JDT		
C	15.05.2020	ISSUED FOR ENGAGEMENT	JDT		
D	21.07.2020	ISSUED FOR APPROVAL	JDT		
E	28.01.2021	ISSUED FOR NoR LODGEMENT	GB		

DATE	APPROVED	BY
27.01.2021		R. MASON
18.12.2020		A. REVELL
27.11.2019		R. BELTRAN
27.01.2021		J. DELA TORRE
27.11.2019		R. BELTRAN
27.11.2019		R. BELTRAN
27.11.2019		G. BROWN
		N/A



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - PONGA ROAD UPGRADE (A SECTION OF NoR D5)**  
 Project:  
 Drawing Title:  
**GENERAL ARRANGEMENT LAYOUT PLAN**  
**SHEET 1 OF 2**

Drawing Status:		<b>FOR LODGEMENT</b>	
Drawing Date:		27.01.2021	
A1	1:1000	A3	1:2000
Discipline: CIVIL			
Drawing No: SGA-DRG-STH-004-CI-8101			Revision: E

NOT FOR CONSTRUCTION



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LEGEND GENERAL		LEGEND STORMWATER		LEGEND EXISTING UTILITIES	
	CONTROL LINE AND CHAINAGE		PROPOSED WETLAND		FIRST GAS TRANSMISSION LINES
	EXISTING PROPERTY BOUNDARY		PROPOSED CULVERT (SUBJECT TO RESOURCE CONSENT)		WATERCARE (MAIN)
	EXISTING DESIGNATION BOUNDARY		PROPOSED HEADWALL		TRANSPOWER OVERHEAD LINES
	PROPOSED DESIGNATION BOUNDARY		PROPOSED RIP RAP		COUNTIES POWER LOW VOLTAGE CABLE
	PROPOSED ROAD CORRIDOR		PROPOSED SW PIPE		COUNTIES POWER MEDIUM VOLTAGE CABLE
	PROPOSED FOOTPATH		PROPOSED SW PIPE INDICATIVE FLOW DIRECTION		COUNTIES POWER HIGH VOLTAGE CABLE
	PROPOSED CYCLEWAY		PROPOSED SWALE		WASTEWATER (MAIN)
	PROPOSED BERM		PROPOSED DIVERSION DRAIN		SPARK FIBRE OPTIC
	PROPOSED FLUSH MEDIAN, RAISED MEDIAN & TRAFFIC ISLAND		PROPOSED OVERLAND FLOW PATH		
	PROPOSED BRIDGE (SUBJECT TO RESOURCE CONSENT)		PROPOSED DRAIN CHANNEL		
	FILL BATTER		EXISTING CULVERT		
	CUT BATTER		EXISTING SW PIPE		
			EXISTING OVERLAND FLOW PATH		
	RAIL TRACK				
	PROPOSED RETAINING WALL				
	ACTIVE MODE CROSSING				
	HISTORIC HERITAGE				
	TERRESTRIAL SIGNIFICANT ECOLOGICAL AREA				
	MARINE SIGNIFICANT ECOLOGICAL AREA				
	100 YR FLOOD PLAIN				
	PRECINCT				

KEY PLAN



ORIGINAL SIZE A1

A1 1:1000  
A3 1:2000

MATCHLINE - REFER DRG-SHT-004-CI-8101

ORIGINAL IN COLOUR

"AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD" NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APPROVED	DATE
A	14.02.2020	DRAFT ISSUE FOR REVIEW	JDT	
B	28.02.2020	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	JDT	
C	15.05.2020	ISSUED FOR ENGAGEMENT	JDT	
D	21.07.2020	ISSUED FOR APPROVAL	JDT	
E	28.01.2021	ISSUED FOR NoR LODGEMENT	GB	

ACTIVITY	DATE	BY	DATE
SURVEYED	N/A		
DRAWN	27.11.2019	G. BROWN	
DRAWING CHECK	27.01.2021	J. DELA TORRE	
DESIGN	27.11.2019	R. BELTRAN	
DESIGN REVIEW	18.12.2020	A. REVELL	
APPROVED	27.01.2021	R. MASON	

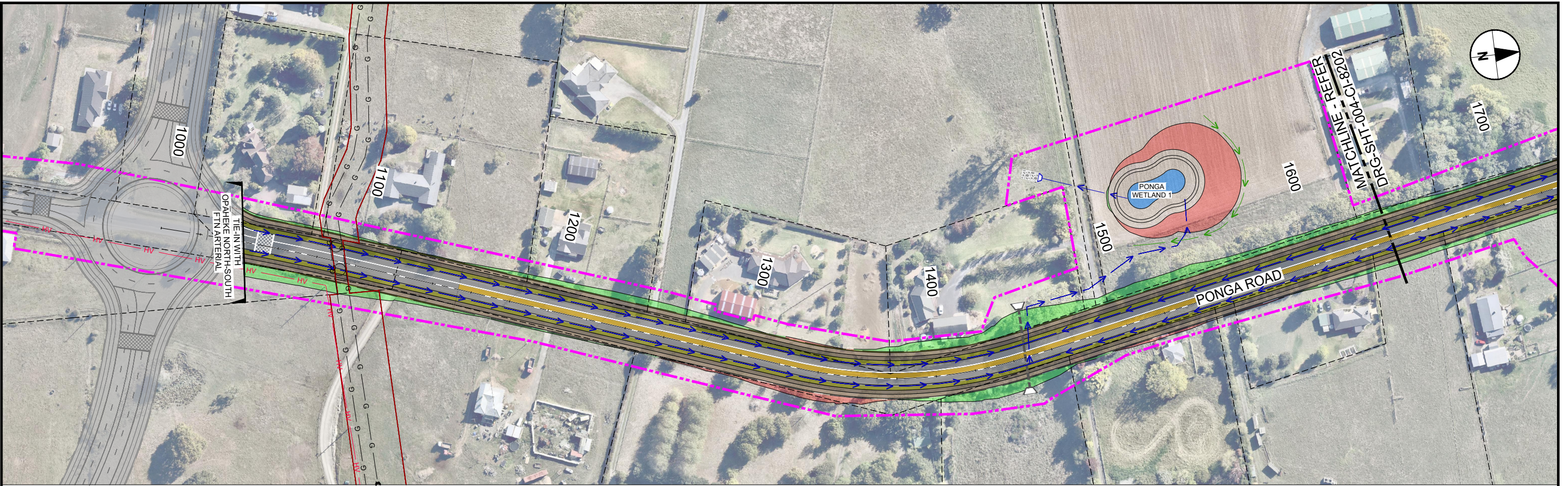


**SUPPORTING GROWTH PROGRAMME**  
**DRURY - PONGA ROAD UPGRADE (A SECTION OF NoR D5)**  
 Drawing Title:  
**GENERAL ARRANGEMENT LAYOUT PLAN**  
 SHEET 2 OF 2

DRAWING STATUS		FOR LODGEMENT	
Drawing Date:	27.01.2021		
A1 Scale:	1:1000	A3 Scale:	1:2000
Discipline: CIVIL			
Drawing No: SGA-DRG-STH-004-CI-8102		Revision: E	

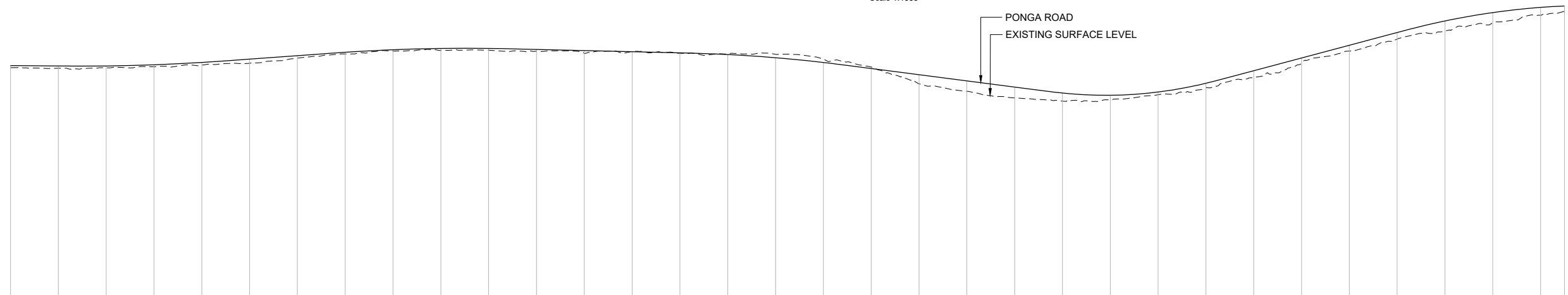


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**PLAN VIEW - PONGA ROAD UPGRADE**

Scale 1:1000



CHAINAGE	EXISTING LEVELS	DESIGN LEVELS	CUT / FILL	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT
1000	27.91	28.13	-0.224	G=-0.19%	L = 24.258
1020	27.86	28.10	-0.235	L = 21.800	L = 1024.258
1040	27.91	28.10	-0.190	R = 1000.000	K = 32.440
1060	28.02	28.22	-0.198	L = 66.746	L = 64.600
1080	28.18	28.46	-0.277	1088.555	1088.658
1100	28.38	28.81	-0.426	L = 238.825	G=1.80%
1120	28.91	29.17	-0.262	L = 1136.155	L = 47.297
1140	29.35	29.53	-0.173	L = 1136.155	K = -30.000
1160	29.64	29.79	-0.152	L = 1208.154	L = 71.999
1180	29.72	29.93	-0.210	L = 1208.154	G=-0.60%
1200	29.74	29.93	-0.184	L = 1284.688	L = 76.534
1220	29.63	29.82	-0.189	K = -23.824	L = 62.401
1240	29.43	29.70	-0.272	L = 1347.089	G=-3.22%
1260	29.61	29.58	0.033	L = 1347.089	L = 88.473
1280	29.42	29.46	-0.039	L = 1435.562	K = 7.000
1300	29.38	29.29	0.089	L = 1435.562	L = 69.084
1320	29.31	28.96	0.354	R = 220.000	L = 1504.646
1340	28.80	28.46	0.342	L = 118.173	G=6.65%
1360	27.98	27.82	0.160	L = 269.402	L = 78.134
1380	26.23	27.18	-0.950	L = 1582.779	K = -12.000
1400	25.45	26.54	-1.083	L = 1582.779	L = 151.799
1420	24.76	25.89	-1.135		
1440	24.42	25.26	-0.840		
1460	24.56	25.03	-0.469		
1480	25.09	25.37	-0.281		
1500	25.82	26.28	-0.466		
1520	26.86	27.60	-0.739		
1540	28.39	28.93	-0.537		
1560	29.65	30.26	-0.612		
1580	30.91	31.59	-0.682		
1600	31.75	32.79	-1.043		
1620	32.60	33.67	-1.070		
1640	33.39	34.21	-0.819		

**LONGITUDINAL SECTION - PONGA ROAD UPGRADE**

SCALE HORIZ=1:1000 VERT=1:250



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**NOT FOR CONSTRUCTION**

ORIGINAL SIZE A1

REV	REVISIONS	DATE	APPROVED	DATE
A	DRAFT ISSUE FOR REVIEW	14.02.2020	R. MASON	27.01.2021
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.2020	A. REVELL	18.12.2020
C	ISSUED FOR ENGAGEMENT	15.05.2020	R. BELTRAN	27.11.2019
D	ISSUED FOR APPROVAL	21.07.2020	J. DELA TORRE	27.01.2021
E	ISSUED FOR NoR LODGEMENT	28.01.2021	G. BROWN	27.11.2019



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - PONGA ROAD UPGRADE (A SECTION OF NoR D5)**  
 Project Title:  
**PLAN AND LONGITUDINAL SECTION**  
 SHEET 1 OF 2

**FOR LODGEMENT**

Drawing Date: 27.01.2021

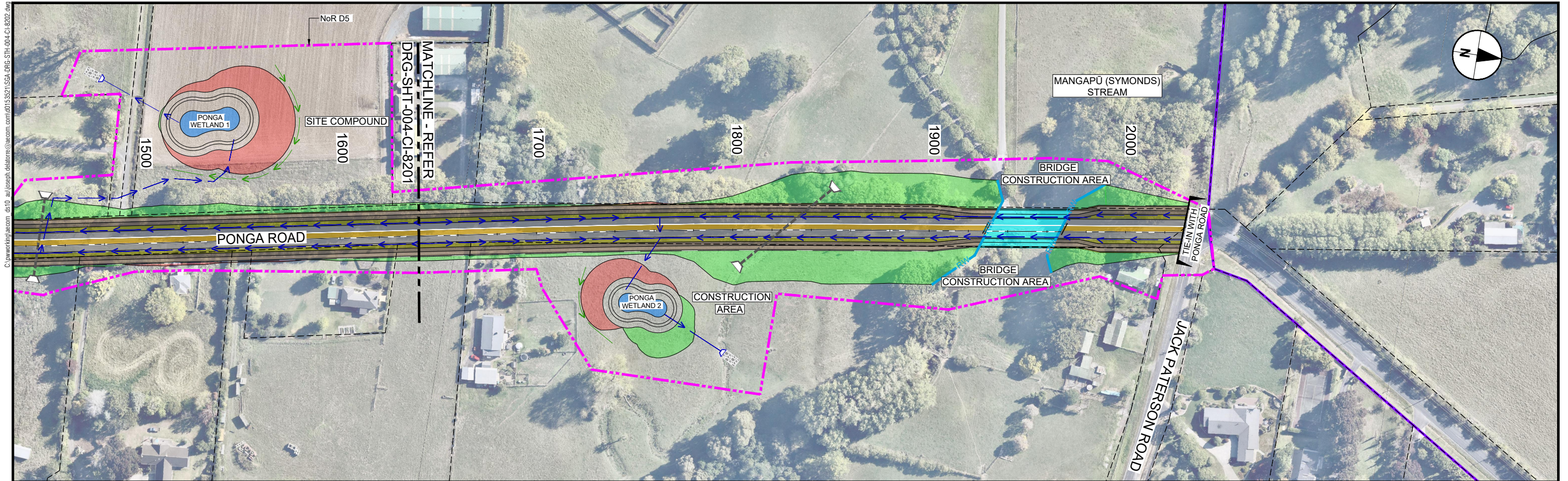
Drawing No: SGA-DRG-STH-04-CI-8201

Discipline: CIVIL

Scale: 1:1000H 1:250V / 1:2000H 1:500V

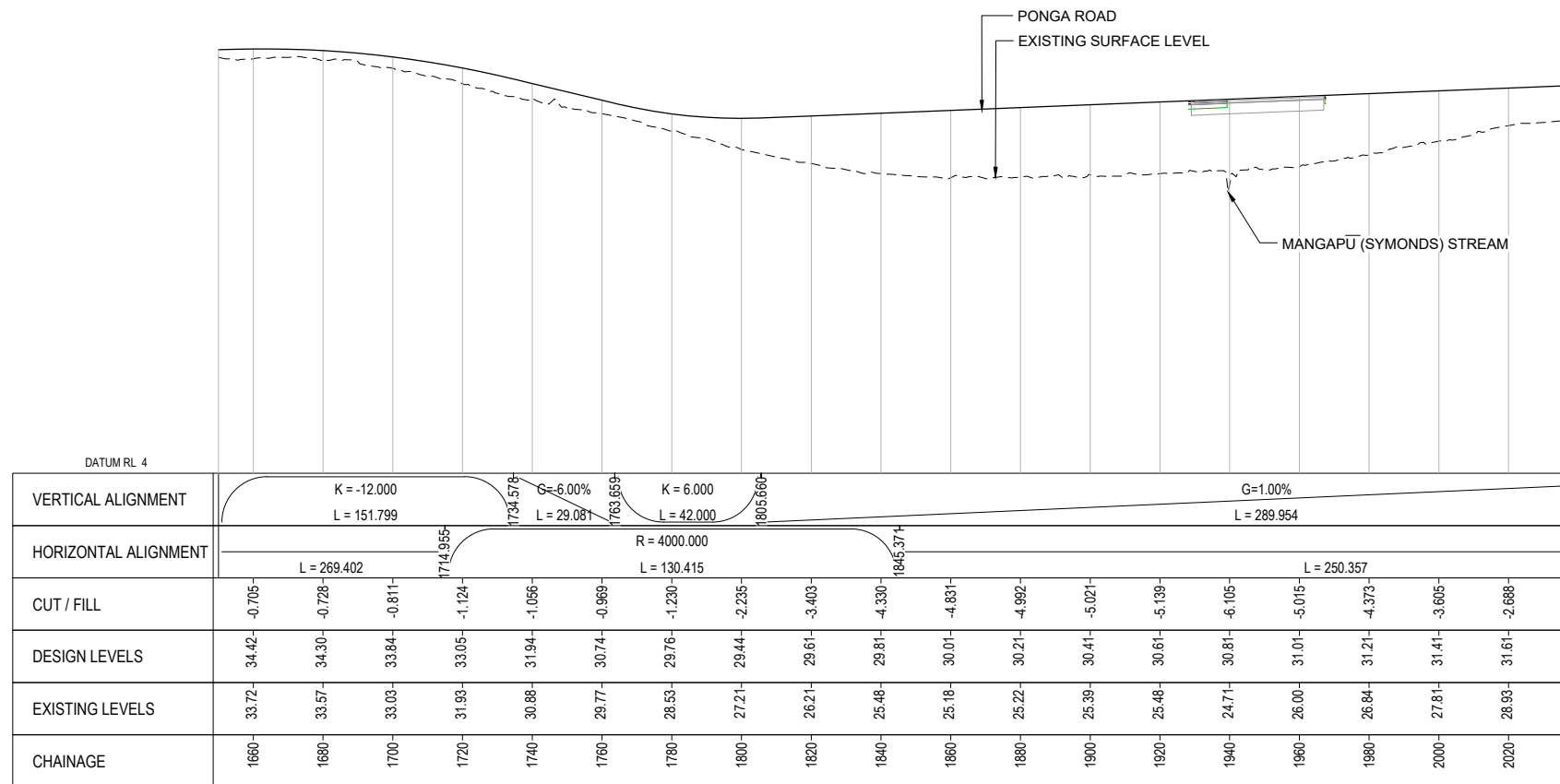
Revision: E





**PLAN VIEW - PONGA ROAD UPGRADE**

Scale 1:1000



**LONGITUDINAL SECTION - PONGA ROAD UPGRADE**

SCALE HORIZ=1:1000 VERT=1:250

ORIGINAL SIZE A1

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REV	DESCRIPTION	DATE	BY	CHECKED	DATE
E	ISSUED FOR NoR LODGEMENT	28.01.2021	GB		
D	ISSUED FOR APPROVAL	21.07.2020	DD		
C	ISSUED FOR ENGAGEMENT	15.05.2020	DD		
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.2020	RB		
A	DRAFT ISSUE FOR REVIEW	14.02.2020	RB		

**SUPPORTING GROWTH PROGRAMME**  
**DRURY - PONGA ROAD UPGRADE (A SECTION OF NoR D5)**  
 Drawing Title:  
**PLAN AND LONGITUDINAL SECTION**  
 SHEET 2 OF 2

Drawing Status: **FOR LODGEMENT**  
 Drawing Date: 27.01.2021  
 Scale: 1:1000H 1:250V / 1:2000H 1:500V  
 Discipline: CIVIL  
 Drawing No: SGA-DRG-STH-004-CI-8202  
 Revision: **E**

\*AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD\*

**NOT FOR CONSTRUCTION**





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ORIGINAL SIZE A1

A1 1:50  
A3 1:100

REV

DATE

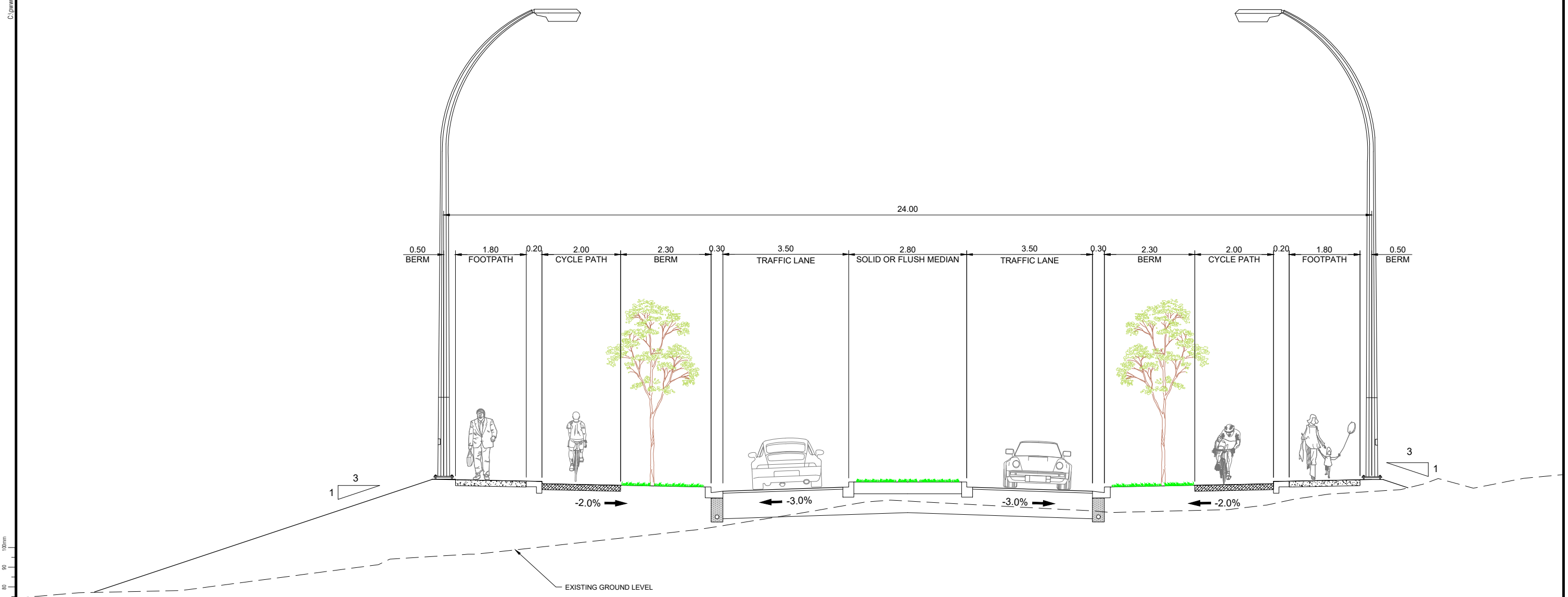
REV	DATE	BY	CHKD	APPD	DESCRIPTION
A	14.02.2020	JDT			DRAFT ISSUE FOR REVIEW
B	28.02.2020	JDT			ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT
C	15.05.2020	JDT			ISSUED FOR ENGAGEMENT
D	21.07.2020	JDT			ISSUED FOR APPROVAL
E	28.01.2021	GB			ISSUED FOR NoR LODGEMENT

REVISIONS	DATE	APPROVED	BY
	27.01.2021	R. MASON	
	18.12.2020	A. REVELL	
	27.11.2019	R. BELTRAN	
	27.11.2019	J. DELA TORRE	
	27.11.2019	G. BROWN	



Project: **SUPPORTING GROWTH PROGRAMME**  
**DRURY - PONGA ROAD UPGRADE (A SECTION OF NoR D5)**  
 Drawing Title: **TYPICAL CROSS SECTION**

Drawing Status: <b>FOR LODGEMENT</b>	
Drawing Date: 27.01.2021	Revision: <b>E</b>
A1 Scales: 1:50	A3 Scales: 1:100
Discipline: CIVIL	
Drawing No: SGA-DRG-STH-004-CI-8301	



**A | TYPICAL CROSS SECTION**  
 Scale 1:50

ORIGINAL IN COLOUR

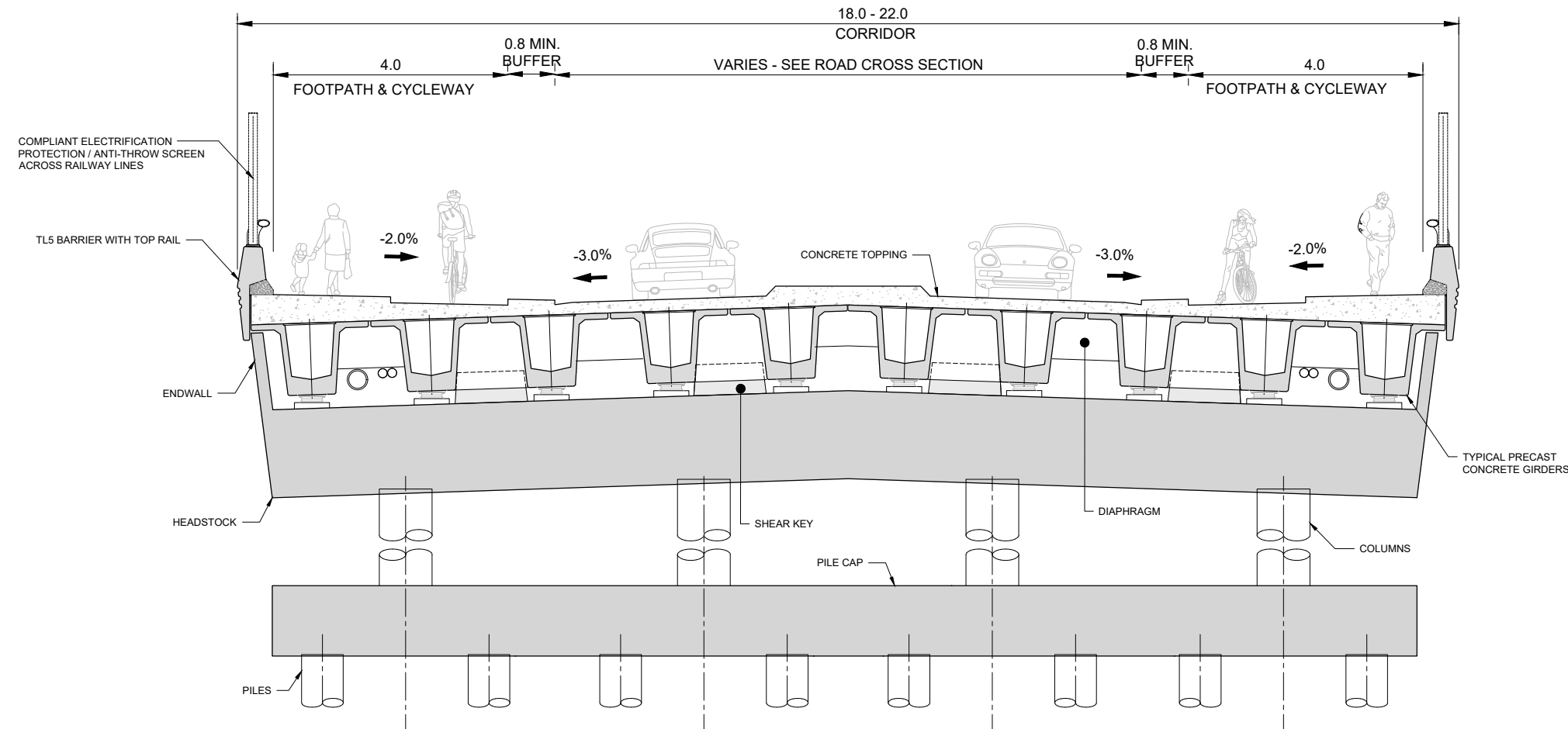
NOT FOR CONSTRUCTION



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**NOTES:**

- BRIDGE DESIGN IS INDICATIVE ONLY.
- UNLESS NOTED OTHERWISE, UTILITIES SHOWN ARE INDICATIVE ONLY.



**TYPICAL CROSS SECTION - TWO LANE BRIDGE**  
Scale : NTS

ORIGINAL SIZE A1  
0 10 20 30 40 50 60 70 80 90 100mm



**NOT FOR CONSTRUCTION**

REV	REVISIONS	DATE	DRAWN	DATE
A	DRAFT ISSUE FOR REVIEW	14.02.20	AG	
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.20	AG	
C	ISSUED FOR ENGAGEMENT	15.05.2020	JT	
D	ISSUED FOR APPROVAL	21.07.2020	AG	
E	ISSUED FOR NoR LODGEMENT	28.01.2021	JDT	

ACTIVITY	BY	DATE
SURVEYED	N/A	
DRAWN	A. GARCIA	17.07.2020
DRAWING CHECK	J. DELA TORRE	21.12.2020
DESIGN	A. REVELL	18.12.2020
DESIGN REVIEW	K. CRAWFORD	18.12.2020
APPROVED	R. MASON	27.01.2021



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - PONGA ROAD UPGRADE (A SECTION OF NoR D5)**  
Project:  
Drawing Title:  
**TWO LANE BRIDGE**  
**TYPICAL CROSS SECTION**

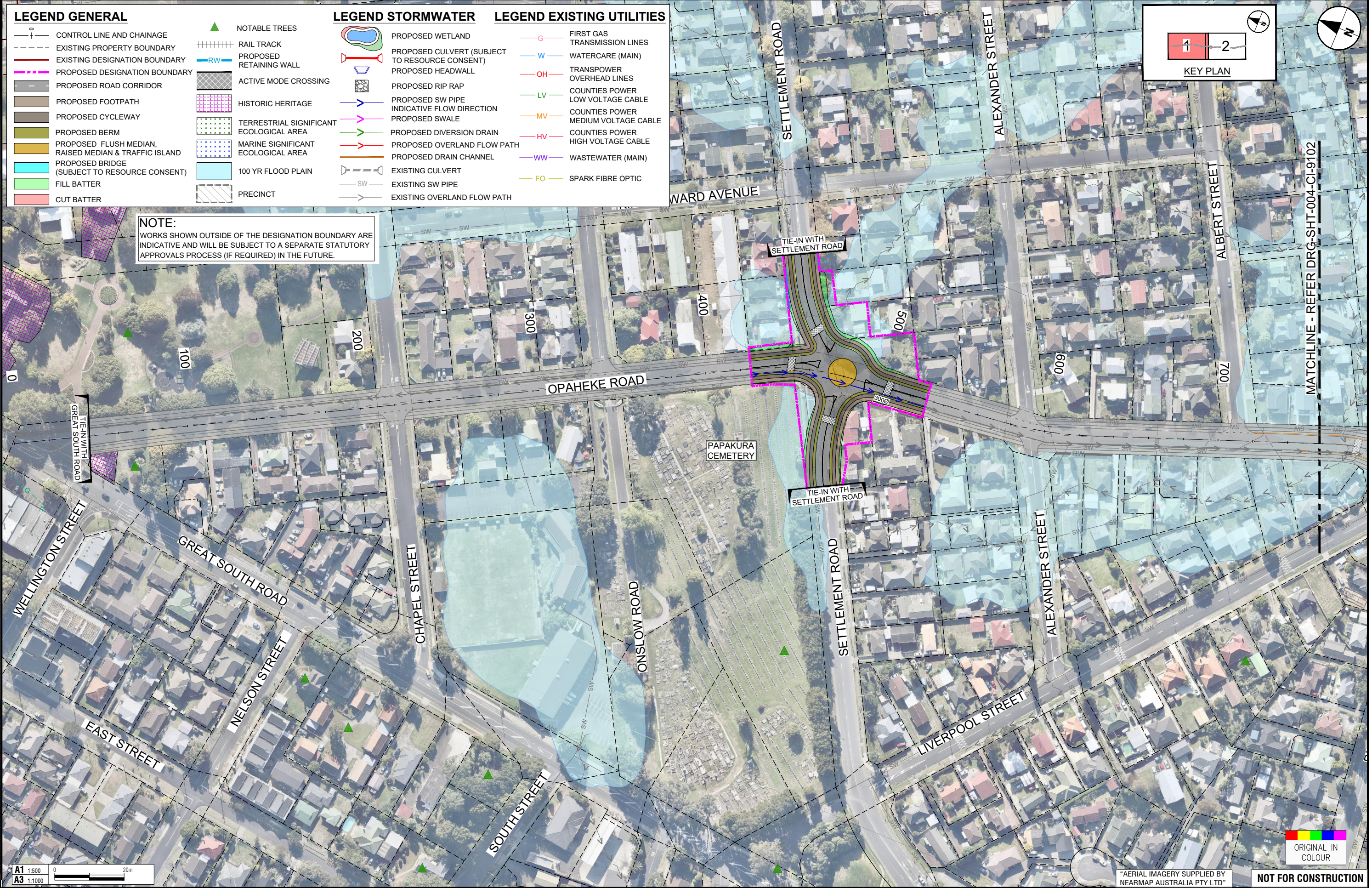
Drawing Status: <b>FOR APPROVAL</b>			
Drawing Date: 27.01.2021		Revision: <b>E</b>	
A1	NTS	A3	NTS
Discipline: STRUCTURAL			
Drawing No: SGA-DRG-STH-004-ST-8720			Revision: <b>E</b>







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**LEGEND GENERAL**

- CONTROL LINE AND CHAINAGE
- EXISTING PROPERTY BOUNDARY
- EXISTING DESIGNATION BOUNDARY
- PROPOSED DESIGNATION BOUNDARY
- PROPOSED ROAD CORRIDOR
- PROPOSED FOOTPATH
- PROPOSED CYCLEWAY
- PROPOSED BERM
- PROPOSED FLUSH MEDIAN, RAISED MEDIAN & TRAFFIC ISLAND
- PROPOSED BRIDGE (SUBJECT TO RESOURCE CONSENT)
- FILL BATTER
- CUT BATTER
- NOTABLE TREES
- RAIL TRACK
- PROPOSED RETAINING WALL
- ACTIVE MODE CROSSING
- HISTORIC HERITAGE
- TERRESTRIAL SIGNIFICANT ECOLOGICAL AREA
- MARINE SIGNIFICANT ECOLOGICAL AREA
- 100 YR FLOOD PLAIN
- PRECINCT

**LEGEND STORMWATER**

- PROPOSED WETLAND
- PROPOSED CULVERT (SUBJECT TO RESOURCE CONSENT)
- PROPOSED HEADWALL
- PROPOSED RIP RAP
- PROPOSED SW PIPE
- INDICATIVE FLOW DIRECTION
- PROPOSED SWALE
- PROPOSED DIVERSION DRAIN
- PROPOSED OVERLAND FLOW PATH
- PROPOSED DRAIN CHANNEL
- EXISTING CULVERT
- EXISTING SW PIPE
- EXISTING OVERLAND FLOW PATH

**LEGEND EXISTING UTILITIES**

- FIRST GAS TRANSMISSION LINES
- WATERCARE (MAIN)
- TRANSPOWER OVERHEAD LINES
- COUNTIES POWER LOW VOLTAGE CABLE
- COUNTIES POWER MEDIUM VOLTAGE CABLE
- COUNTIES POWER HIGH VOLTAGE CABLE
- WASTEWATER (MAIN)
- SPARK FIBRE OPTIC

**NOTE:**  
WORKS SHOWN OUTSIDE OF THE DESIGNATION BOUNDARY ARE INDICATIVE AND WILL BE SUBJECT TO A SEPARATE STATUTORY APPROVALS PROCESS (IF REQUIRED) IN THE FUTURE.

1      2

KEY PLAN

ORIGINAL SIZE A1

A1 1:500  
A3 1:1000

ORIGINAL IN COLOUR

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHKD
A	14.02.2020	DRAFT ISSUE FOR REVIEW	JDT	
B	28.02.2020	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	JDT	
C	15.05.2020	ISSUED FOR ENGAGEMENT	JDT	
D	21.07.2020	ISSUED FOR APPROVAL	JDT	
E	28.01.2021	ISSUED FOR NoR LODGEMENT	GB	

SURVEYED	N/A
DRAWN	G. BROWN 27.11.2019
DESIGN CHECK	J. DELA TORRE 27.01.2021
DESIGN	R. BELTRAN 27.11.2019
DESIGN REVIEW	A. REVELL 18.12.2020
APPROVED	R. MASON 27.01.2021



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (URBAN) UPGRADE (A SECTION OF NoR D5)**  
 Drawing Title:  
**GENERAL ARRANGEMENT LAYOUT PLAN**  
 SHEET 1 OF 2

DRAWING STATUS		FOR LODGEMENT	
Drawing Date: 27.01.2021		Revision: E	
A1 Scale: 1:1000	A3 Scale: 1:2000		
Discipline: CIVIL			
Drawing No: SGA-DRG-STH-004-CI-9101			



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**LEGEND GENERAL**

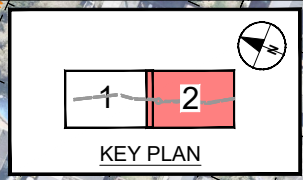
- CONTROL LINE AND CHAINAGE
- EXISTING PROPERTY BOUNDARY
- EXISTING DESIGNATION BOUNDARY
- PROPOSED DESIGNATION BOUNDARY
- PROPOSED ROAD CORRIDOR
- PROPOSED FOOTPATH
- PROPOSED CYCLEWAY
- PROPOSED BERM
- PROPOSED FLUSH MEDIAN, RAISED MEDIAN & TRAFFIC ISLAND
- PROPOSED BRIDGE (SUBJECT TO RESOURCE CONSENT)
- FILL BATTER
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- RAIL TRACK
- PROPOSED RETAINING WALL
- ACTIVE MODE CROSSING
- HISTORIC HERITAGE
- TERRESTRIAL SIGNIFICANT ECOLOGICAL AREA
- MARINE SIGNIFICANT ECOLOGICAL AREA
- 100 YR FLOOD PLAIN
- PRECINCT

**LEGEND STORMWATER**

- PROPOSED WETLAND
- PROPOSED CULVERT (SUBJECT TO RESOURCE CONSENT)
- PROPOSED HEADWALL
- PROPOSED RIP RAP
- PROPOSED SW PIPE
- INDICATIVE FLOW DIRECTION
- PROPOSED SWALE
- PROPOSED DIVERSION DRAIN
- PROPOSED OVERLAND FLOW PATH
- PROPOSED DRAIN CHANNEL
- EXISTING CULVERT
- EXISTING SW PIPE
- EXISTING OVERLAND FLOW PATH

**LEGEND EXISTING UTILITIES**

- FIRST GAS TRANSMISSION LINES
- WATERCARE (MAIN)
- TRANSPOWER OVERHEAD LINES
- COUNTIES POWER LOW VOLTAGE CABLE
- COUNTIES POWER MEDIUM VOLTAGE CABLE
- COUNTIES POWER HIGH VOLTAGE CABLE
- WASTEWATER (MAIN)
- SPARK FIBRE OPTIC



**NOTE:**

1. THE PROPERTY ADDRESSES SHOWN INDICATE WHERE DRIVEWAYS ARE LIKELY TO REQUIRE REGRADING TO TIE INTO THE PROPOSED OPAHEKE ROAD UPGRADE.
2. WORKS SHOWN OUTSIDE OF THE DESIGNATION BOUNDARY ARE INDICATIVE AND WILL BE SUBJECT TO A SEPARATE STATUTORY APPROVALS PROCESS (IF REQUIRED) IN THE FUTURE.



ORIGINAL SIZE A1

A1 1:500  
A3 1:1000

REV	DATE	DESCRIPTION	BY	CHKD
A	14.02.2020	DRAFT ISSUE FOR REVIEW	JDT	
B	28.02.2020	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	JDT	
C	15.05.2020	ISSUED FOR ENGAGEMENT	JDT	
D	21.07.2020	ISSUED FOR APPROVAL	JDT	
E	28.01.2021	ISSUED FOR NOB LODGEMENT	GB	

SURVEYED	N/A	DATE
DRAWN	G. BROWN	27.11.2019
DESIGN CHECK	J. DELA TORRE	27.01.2021
DESIGN	R. BELTRAN	27.11.2019
DESIGN REVIEW	A. REVELL	18.12.2020
APPROVED	R. MASON	27.01.2021



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (URBAN) UPGRADE (A SECTION OF NOB D5)**  
 Drawing Title:  
**GENERAL ARRANGEMENT LAYOUT PLAN**  
 SHEET 2 OF 2

DRAWING STATUS		FOR LODGEMENT	
Drawing Date: 27.01.2021		Revision: E	
A1 Scale: 1:1000	A3 Scale: 1:2000	Discipline: CIVIL	
Drawing No: SGA-DRG-STH-004-CI-9102		Project: SUPPORTING GROWTH PROGRAMME	

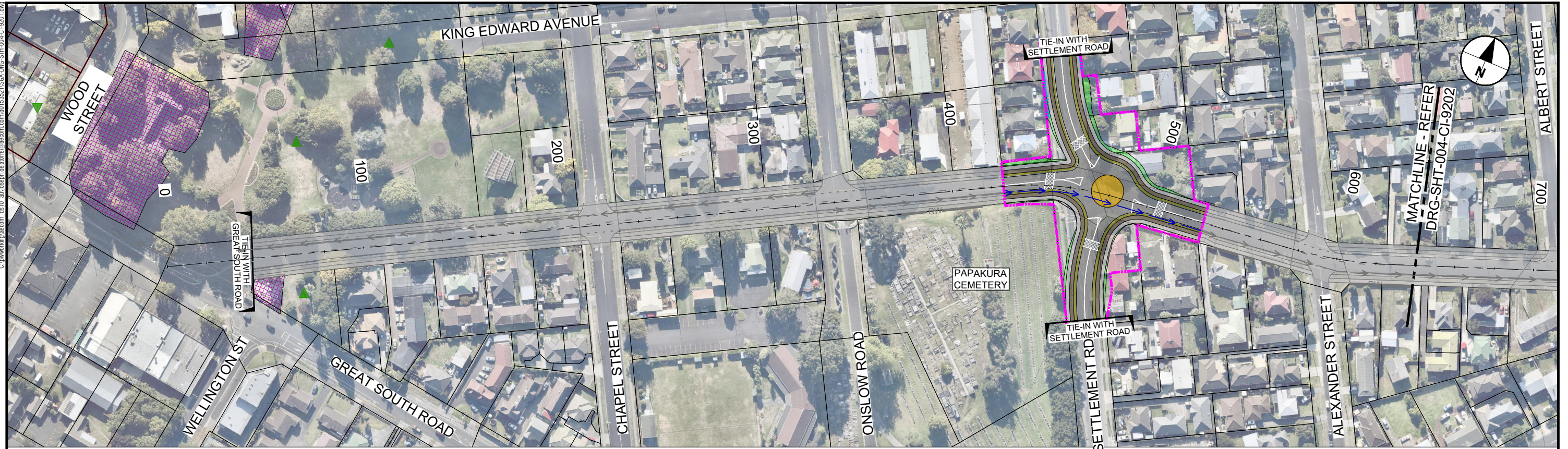
NOT FOR CONSTRUCTION



\*AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD\*



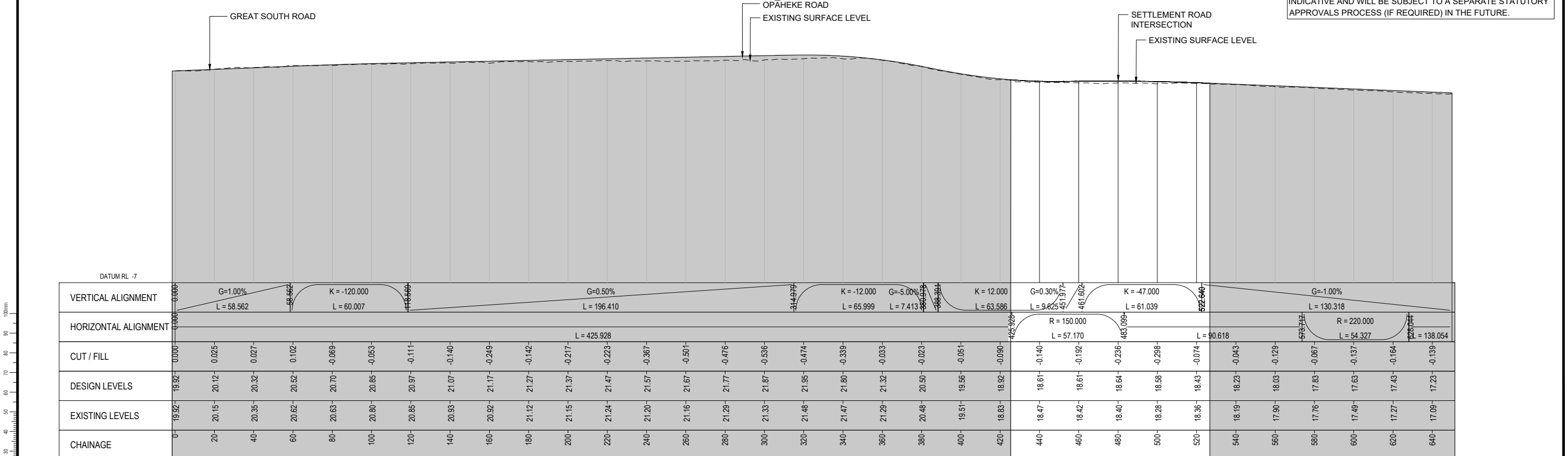
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**PLAN VIEW - OPAHEKE ROAD (URBAN) UPGRADE**

Scale 1:1000

**NOTE:**  
WORKS SHOWN OUTSIDE OF THE DESIGNATION BOUNDARY ARE INDICATIVE AND WILL BE SUBJECT TO A SEPARATE STATUTORY APPROVALS PROCESS (IF REQUIRED) IN THE FUTURE.



**LONGITUDINAL SECTION - OPAHEKE ROAD (URBAN) UPGRADE**

SCALE HORIZ=1:1000 VERT=1:250

ORIGINAL IN COLOUR

ORIGINAL SIZE A1

REV	REVISIONS	DATE	APPROVED	DATE	APPROVED
A	DRAFT ISSUE FOR REVIEW	14.02.2020	R. MASON	27.01.2021	
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.2020	A. REVELL	18.12.2020	
C	ISSUED FOR ENGAGEMENT	15.05.2020	R. BELTRAN	27.11.2019	
D	ISSUED FOR APPROVAL	21.07.2020	J. DELA TORRE	27.01.2021	
E	ISSUED FOR NoR LODGEMENT	28.01.2021	G. BROWN	27.11.2019	

SURVEYED	N/A	DATE	APPROVED
DRAWN	G. BROWN	27.11.2019	
DRAWING CHECK	J. DELA TORRE	27.01.2021	
DESIGN	R. BELTRAN	27.11.2019	
DESIGN REVIEW	A. REVELL	18.12.2020	
APPROVED	R. MASON	27.01.2021	



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (URBAN) UPGRADE (A SECTION OF NoR D5)**  
 Project:  
 Drawing Title:  
**PLAN AND LONGITUDINAL SECTION**  
 SHEET 1 OF 3

\*AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD\*

**NOT FOR CONSTRUCTION**

Drawing Status:		Revision:	
<b>FOR LODGEMENT</b>			
Drawing Date:	27.01.2021		
A1 Scale:	1:1000H 1:250V	A3 Scale:	1:2000H 1:500V
Discipline: CIVIL			
Drawing No. SGA-DRG-STH-04-CI-9201		Revision: <b>E</b>	



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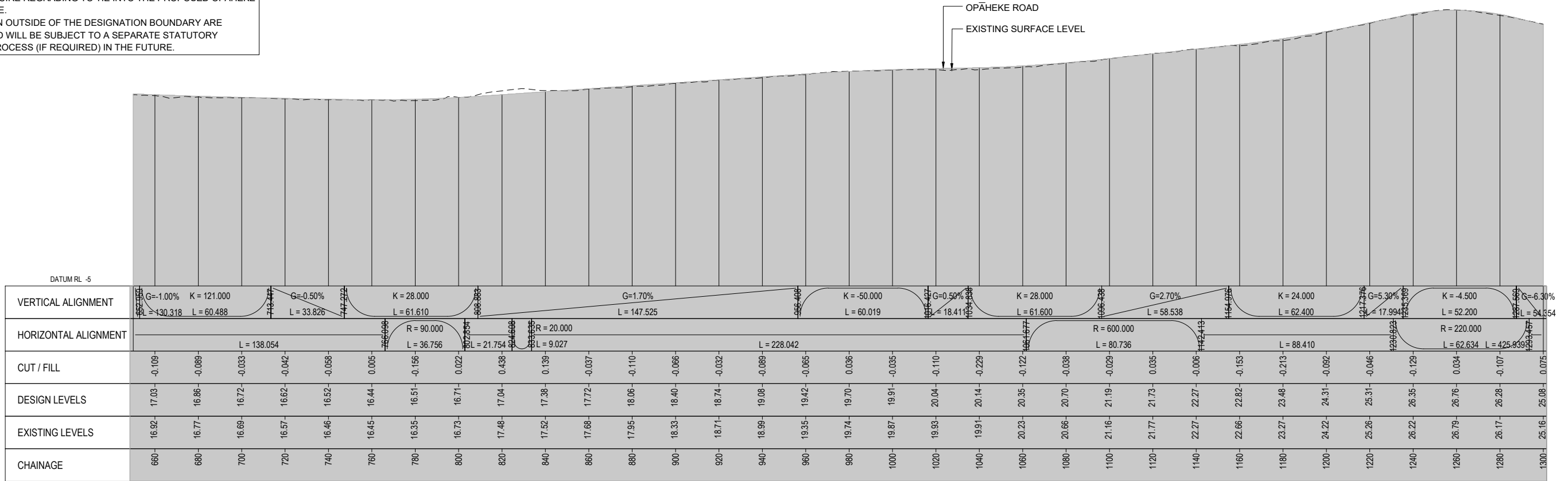


**NOTE:**

1. THE PROPERTY ADDRESSES SHOWN INDICATE WHERE DRIVEWAYS ARE LIKELY TO REQUIRE REGRADING TO TIE INTO THE PROPOSED OPAHEKE ROAD UPGRADE.
2. WORKS SHOWN OUTSIDE OF THE DESIGNATION BOUNDARY ARE INDICATIVE AND WILL BE SUBJECT TO A SEPARATE STATUTORY APPROVALS PROCESS (IF REQUIRED) IN THE FUTURE.

**PLAN VIEW - OPAHEKE ROAD (URBAN) UPGRADE**

Scale 1:1000



**LONGITUDINAL SECTION - OPAHEKE ROAD (URBAN) UPGRADE**

SCALE HORIZ=1:1000 VERT=1:250



"AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD"

**NOT FOR CONSTRUCTION**

REV	REVISIONS	DATE	APPROVED	DATE
A	DRAFT ISSUE FOR REVIEW	14.02.2020	R. MASON	27.01.2021
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.2020	A. REVELL	18.12.2020
C	ISSUED FOR ENGAGEMENT	15.05.2020	R. BELTRAN	27.11.2019
D	ISSUED FOR APPROVAL	21.07.2020	J. DELA TORRE	27.01.2021
E	ISSUED FOR NoR LODGEMENT	28.01.2021	G. BROWN	27.11.2019



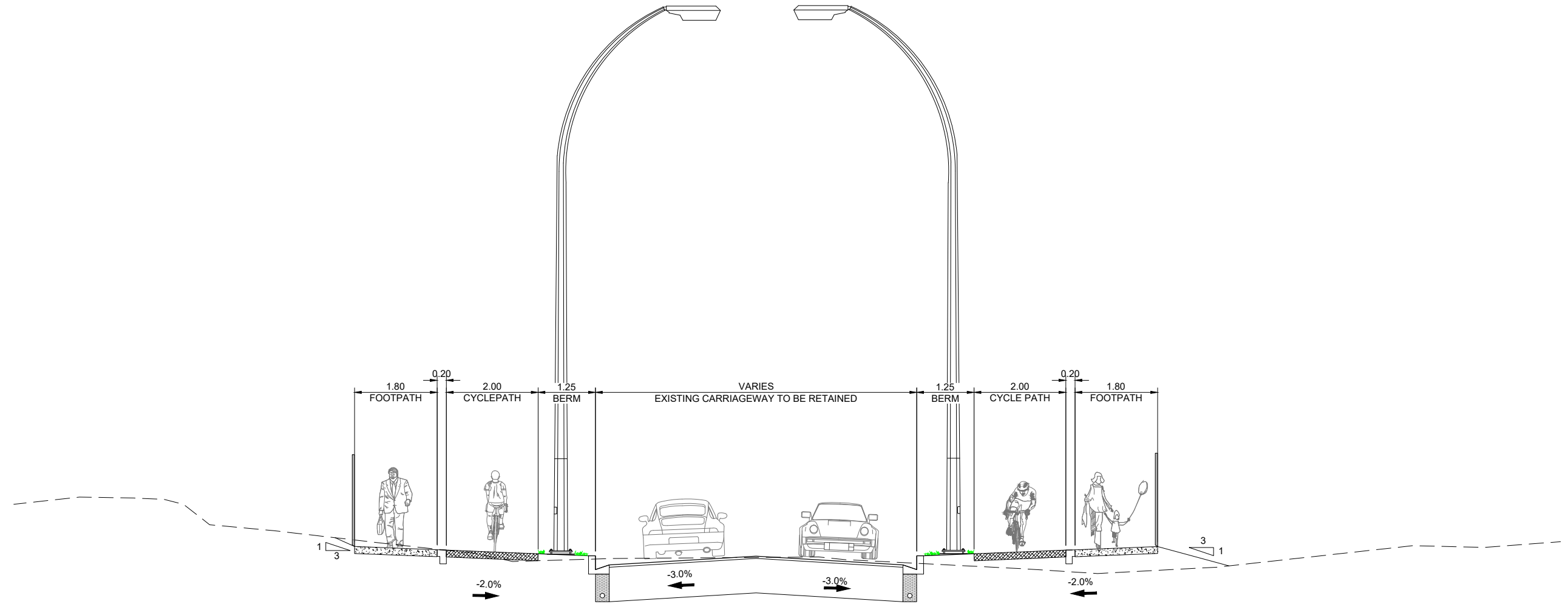
**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (URBAN) UPGRADE (A SECTION OF NoR D5)**  
 Project Title:  
**PLAN AND LONGITUDINAL SECTION**  
 SHEET 2 OF 3

Drawing Status:		Revision:	
<b>FOR LODGEMENT</b>		<b>E</b>	
Drawing Date:	27.01.2021	Revision:	
Discipline:	CIVIL	Scale:	1:2000H 1:500V
Project:	SGA-DRG-STH-04-CI-9202	Scale:	1:1000H 1:250V









**A | TYPICAL CROSS SECTION**  
Scale 1:50

ORIGINAL SIZE A1

A1	1:50	0	2m
A3	1:100		



**NOT FOR CONSTRUCTION**

REV	REVISIONS	DRAWN	DATE	APPROVED	DATE
B	ISSUED FOR NoR LODGEMENT	GB	28.01.2021	A. REVELL	18.12.2020
A	ISSUED FOR APPROVAL	JDT	21.07.2020	R. MASON	27.01.2021



Project: **SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (URBAN) UPGRADE (A SECTION OF NoR D5)**  
 Drawing Title: **TYPICAL CROSS SECTION**

Drawing Status: <b>FOR LODGEMENT</b>	
Drawing Date: 27.01.2021	Revision: B
A1 Scales: 1:50	A3 Scales: 1:100
Discipline: CIVIL	
Drawing No: SGA-DRG-STH-004-CI-9302	

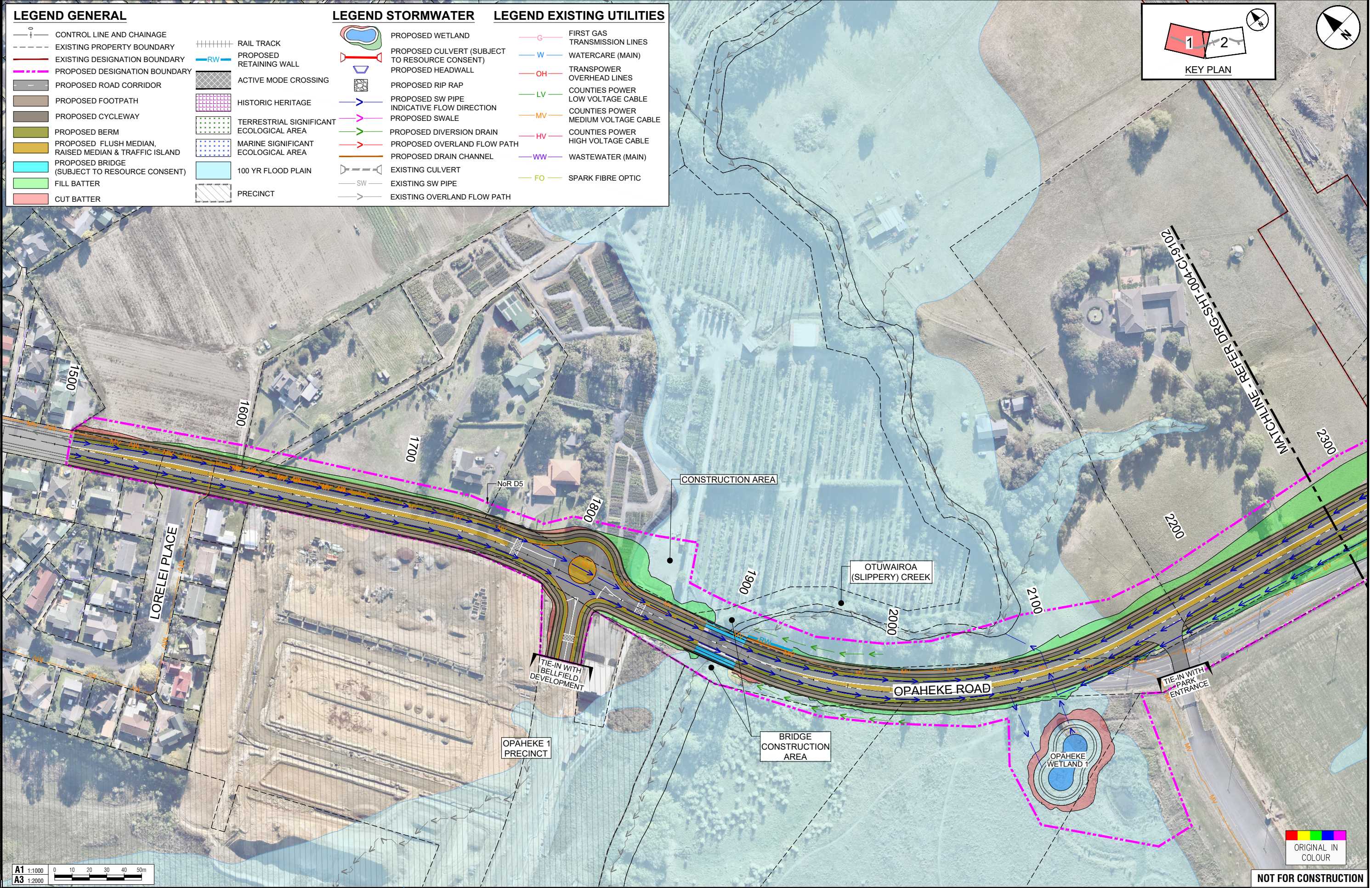
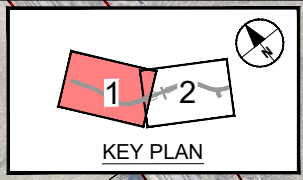






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LEGEND GENERAL		LEGEND STORMWATER		LEGEND EXISTING UTILITIES	
	CONTROL LINE AND CHAINAGE		PROPOSED WETLAND		FIRST GAS TRANSMISSION LINES
	EXISTING PROPERTY BOUNDARY		PROPOSED CULVERT (SUBJECT TO RESOURCE CONSENT)		WATERCARE (MAIN)
	EXISTING DESIGNATION BOUNDARY		PROPOSED HEADWALL		TRANSPOWER OVERHEAD LINES
	PROPOSED DESIGNATION BOUNDARY		PROPOSED RIP RAP		COUNTIES POWER LOW VOLTAGE CABLE
	PROPOSED ROAD CORRIDOR		PROPOSED SW PIPE		COUNTIES POWER MEDIUM VOLTAGE CABLE
	PROPOSED FOOTPATH		INDICATIVE FLOW DIRECTION		COUNTIES POWER HIGH VOLTAGE CABLE
	PROPOSED CYCLEWAY		PROPOSED SWALE		WASTEWATER (MAIN)
	PROPOSED BERM		PROPOSED DIVERSION DRAIN		SPARK FIBRE OPTIC
	PROPOSED FLUSH MEDIAN, RAISED MEDIAN & TRAFFIC ISLAND		PROPOSED OVERLAND FLOW PATH		
	PROPOSED BRIDGE (SUBJECT TO RESOURCE CONSENT)		PROPOSED DRAIN CHANNEL		
	FILL BATTER		EXISTING CULVERT		
	CUT BATTER		EXISTING SW PIPE		
			EXISTING OVERLAND FLOW PATH		
	RAIL TRACK				
	PROPOSED RETAINING WALL				
	ACTIVE MODE CROSSING				
	HISTORIC HERITAGE				
	TERRESTRIAL SIGNIFICANT ECOLOGICAL AREA				
	MARINE SIGNIFICANT ECOLOGICAL AREA				
	100 YR FLOOD PLAIN				
	PRECINCT				



ORIGINAL SIZE A1

A1 1:1000  
A3 1:2000

ORIGINAL IN COLOUR

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APPROVED	DATE
A	14.02.2020	DRAFT ISSUE FOR REVIEW	JT	
B	28.02.2020	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	JT	
C	15.05.2020	ISSUED FOR ENGAGEMENT	JT	
D	21.07.2020	ISSUED FOR APPROVAL	JT	
E	28.01.2021	ISSUED FOR NOI LODGEMENT	JT	

REV	DATE	DESCRIPTION	APPROVED	DATE
		SURVEYED	N/A	
		DRAWN	G. BROWN	27.11.2019
		DRAWING CHECK	J. DELA TORRE	27.01.2021
		DESIGN	R. BELTRAN	27.11.2019
		DESIGN REVIEW	A. REVELL	18.12.2020
		APPROVED	R. MASON	27.01.2021

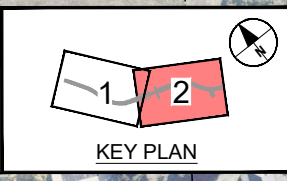
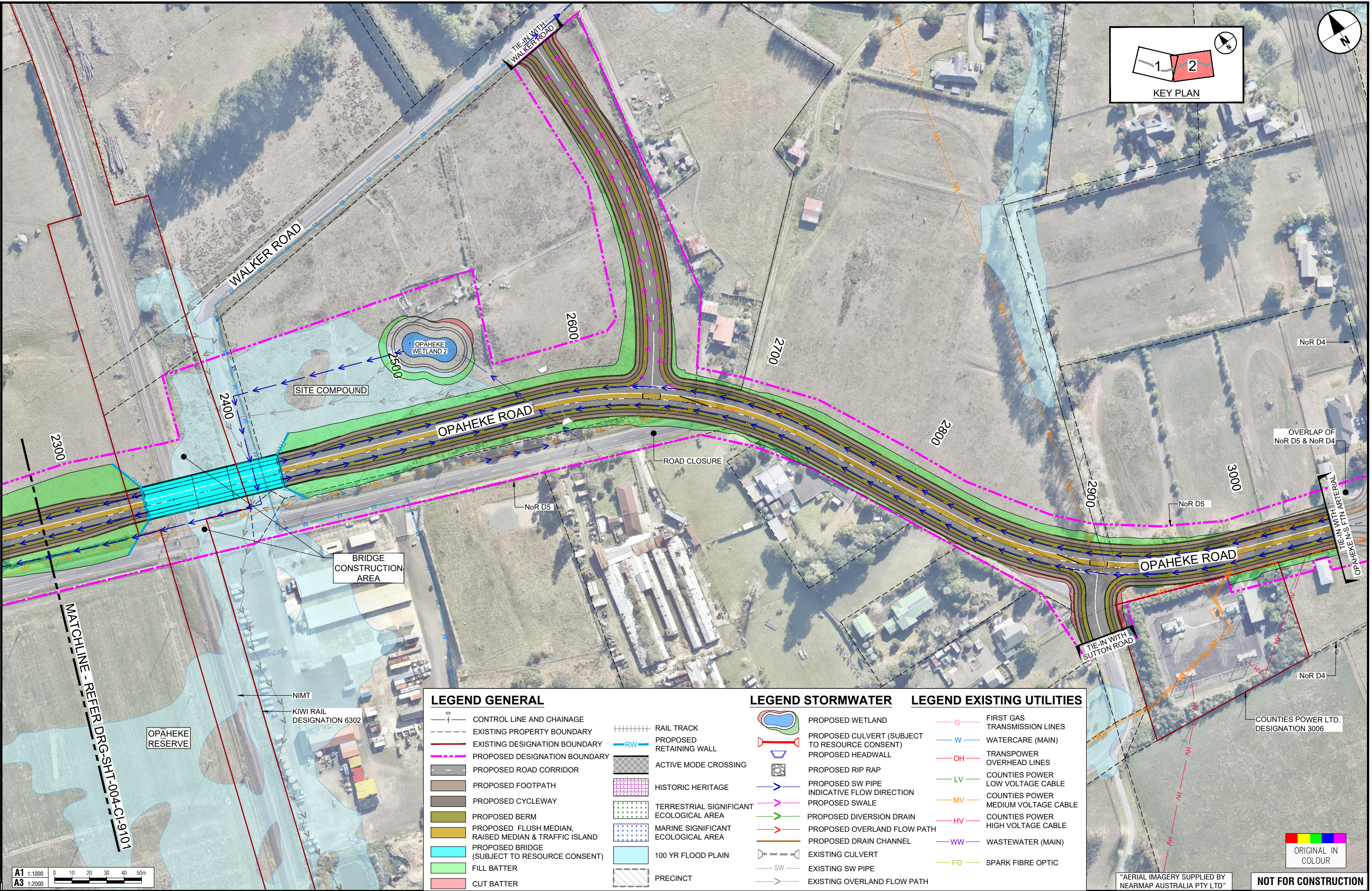


**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (RURAL) UPGRADE (A SECTION OF NoR D5)**  
 Drawing Title:  
**GENERAL ARRANGEMENT LAYOUT PLAN**  
 SHEET 1 OF 2

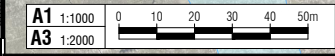
FOR LODGEMENT	
Drawing Date:	27.01.2021
Drawing No:	SGA-DRG-STH-004-CI-9103
Discipline:	CIVIL
Scale:	A1 1:1000, A3 1:2000
Revision:	E



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ORIGINAL SIZE A1  
A1 1:1000  
A3 1:2000



**LEGEND GENERAL**

- +— CONTROL LINE AND CHAINAGE
- - - EXISTING PROPERTY BOUNDARY
- EXISTING DESIGNATION BOUNDARY
- - - PROPOSED DESIGNATION BOUNDARY
- PROPOSED ROAD CORRIDOR
- PROPOSED FOOTPATH
- PROPOSED CYCLEWAY
- PROPOSED BERM
- PROPOSED FLUSH MEDIAN, RAISED MEDIAN & TRAFFIC ISLAND
- PROPOSED BRIDGE (SUBJECT TO RESOURCE CONSENT)
- FILL BATTER
- CUT BATTER
- ||||| RAIL TRACK
- RW — PROPOSED RETAINING WALL
- ACTIVE MODE CROSSING
- HISTORIC HERITAGE
- TERRESTRIAL SIGNIFICANT ECOLOGICAL AREA
- MARINE SIGNIFICANT ECOLOGICAL AREA
- 100 YR FLOOD PLAIN
- PRECINCT

**LEGEND STORMWATER**

- PROPOSED WETLAND
- PROPOSED CULVERT (SUBJECT TO RESOURCE CONSENT)
- PROPOSED HEADWALL
- PROPOSED RIP RAP
- PROPOSED SW PIPE
- INDICATIVE FLOW DIRECTION
- PROPOSED SWALE
- PROPOSED DIVERSION DRAIN
- PROPOSED OVERLAND FLOW PATH
- PROPOSED DRAIN CHANNEL
- EXISTING CULVERT
- SW — EXISTING SW PIPE
- EXISTING OVERLAND FLOW PATH

**LEGEND EXISTING UTILITIES**

- G — FIRST GAS TRANSMISSION LINES
- W — WATERCARE (MAIN)
- OH — TRANSPOWER OVERHEAD LINES
- LV — COUNTIES POWER LOW VOLTAGE CABLE
- MV — COUNTIES POWER MEDIUM VOLTAGE CABLE
- HV — COUNTIES POWER HIGH VOLTAGE CABLE
- WW — WASTEWATER (MAIN)
- FO — SPARK FIBRE OPTIC

"AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD"



**NOT FOR CONSTRUCTION**

REV	DATE	DESCRIPTION	BY	CHKD	DATE
A	14.02.2020	DRAFT ISSUE FOR REVIEW	JDT		
B	28.02.2020	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	JDT		
C	15.05.2020	ISSUED FOR ENGAGEMENT	JDT		
D	21.07.2020	ISSUED FOR APPROVAL	JDT		
E	28.01.2021	ISSUED FOR NoR LODGEMENT	GB		

DATE	BY	DESCRIPTION
27.11.2019	G. BROWN	DRAWN
27.11.2019	R. BELTRAN	DESIGN
18.12.2020	A. REVELL	DESIGN REVIEW
27.01.2021	R. MASON	APPROVED

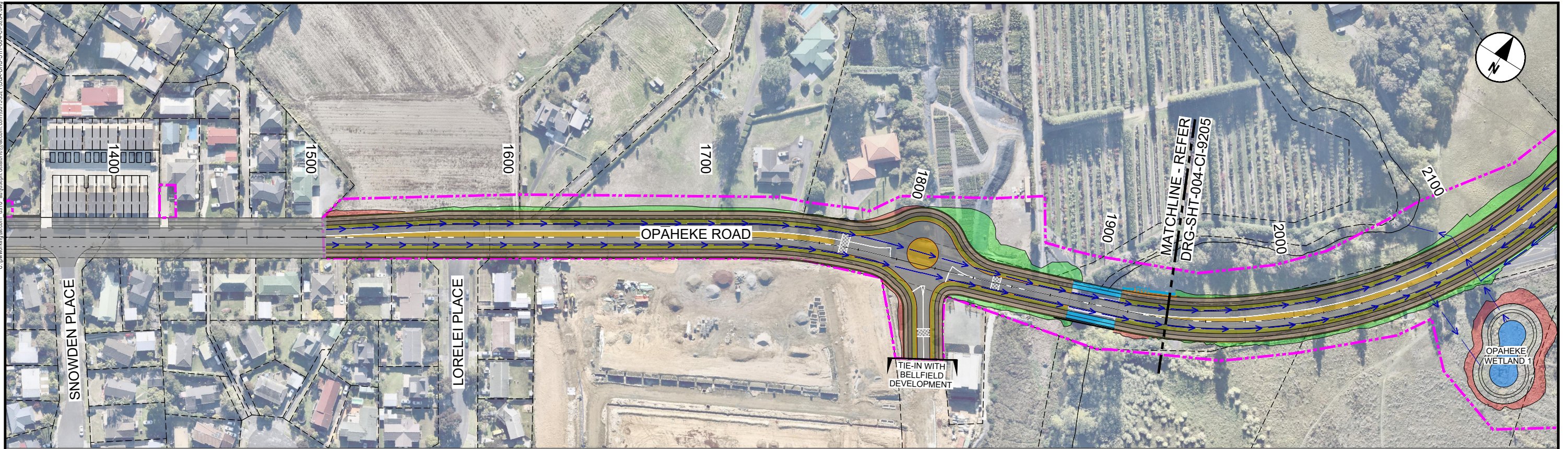


**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (RURAL) UPGRADE (A SECTION OF NoR D5)**  
 Drawing Title:  
**GENERAL ARRANGEMENT LAYOUT PLAN**  
 SHEET 2 OF 2

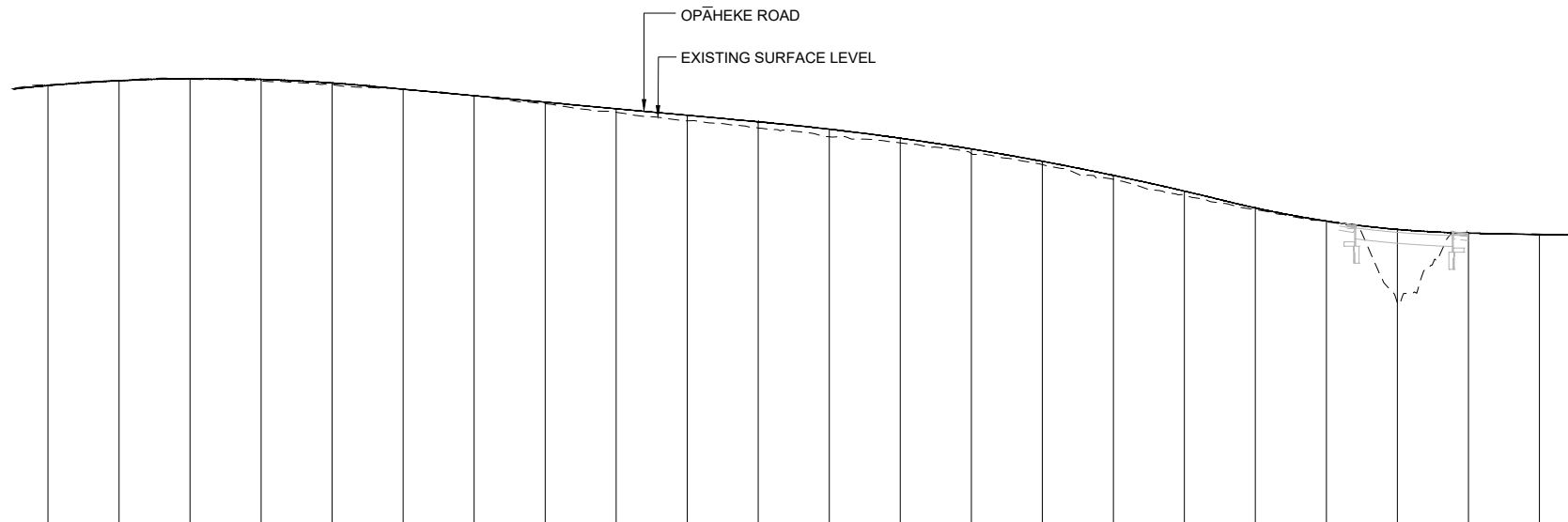
Drawing Status:		FOR LODGEMENT	
Drawing Date:	27.01.2021		
A1 Scale:	1:1000	A3 Scale:	1:2000
Discipline:	CIVIL		
Drawing No:	SGA-DRG-STH-004-CI-9104	Revision:	E



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**PLAN VIEW - OPAHEKE ROAD (RURAL) UPGRADE**  
Scale 1:1000



VERTICAL ALIGNMENT	K = -20.000 L = 125.042		G = -2.30% L = 109.447				K = -34.000 L = 131.540			K = 12.000 L = 68.027		G = -0.50% L = 136.545										
HORIZONTAL ALIGNMENT	5.939		1610.495				1719.396/1719.942			1851.581		1919.508										
CUT / FILL	0.061	0.000	-0.031	-0.115	-0.139	-0.022	0.013	-0.112	-0.249	-0.395	-0.434	-0.327	-0.329	-0.231	-0.281	-0.284	-0.129	-0.058	-5.167	-0.024	0.032	
DESIGN LEVELS	21.82	22.17	22.31	22.26	22.00	21.57	21.11	20.65	20.19	19.73	19.27	18.75	18.11	17.36	16.49	15.50	14.39	13.21	12.28	11.69	11.43	11.33
EXISTING LEVELS	21.88	22.17	22.28	22.14	21.86	21.55	21.12	20.54	19.94	19.33	18.83	18.21	17.79	17.03	16.26	15.22	14.11	13.08	12.22	6.52	11.41	11.36
CHAINAGE	1520	1540	1560	1580	1600	1620	1640	1660	1680	1700	1720	1740	1760	1780	1800	1820	1840	1860	1880	1900	1920	1940

**LONGITUDINAL SECTION - OPAHEKE ROAD (RURAL) UPGRADE**  
SCALE HORIZ=1:1000 VERT=1:250



ORIGINAL SIZE A1

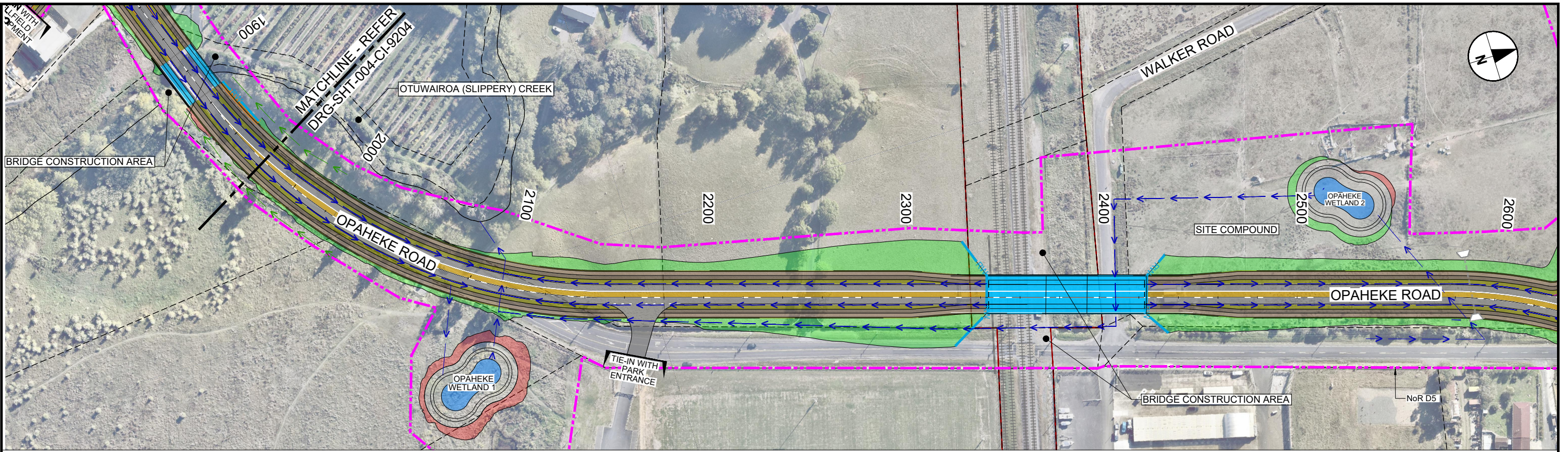
REV	DATE	BY	CHKD	APPD	DESCRIPTION
A	14.02.2020	RB			DRAFT ISSUE FOR REVIEW
B	28.02.2020	RB			ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT
C	15.05.2020	KKS			ISSUED FOR ENGAGEMENT
D	21.07.2020	DD			ISSUED FOR APPROVAL
E	28.01.2021	GB			ISSUED FOR NoR LODGEMENT

**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (RURAL) UPGRADE (A SECTION OF NoR D5)**  
 Project: PLAN AND LONGITUDINAL SECTION  
 SHEET 1 OF 3

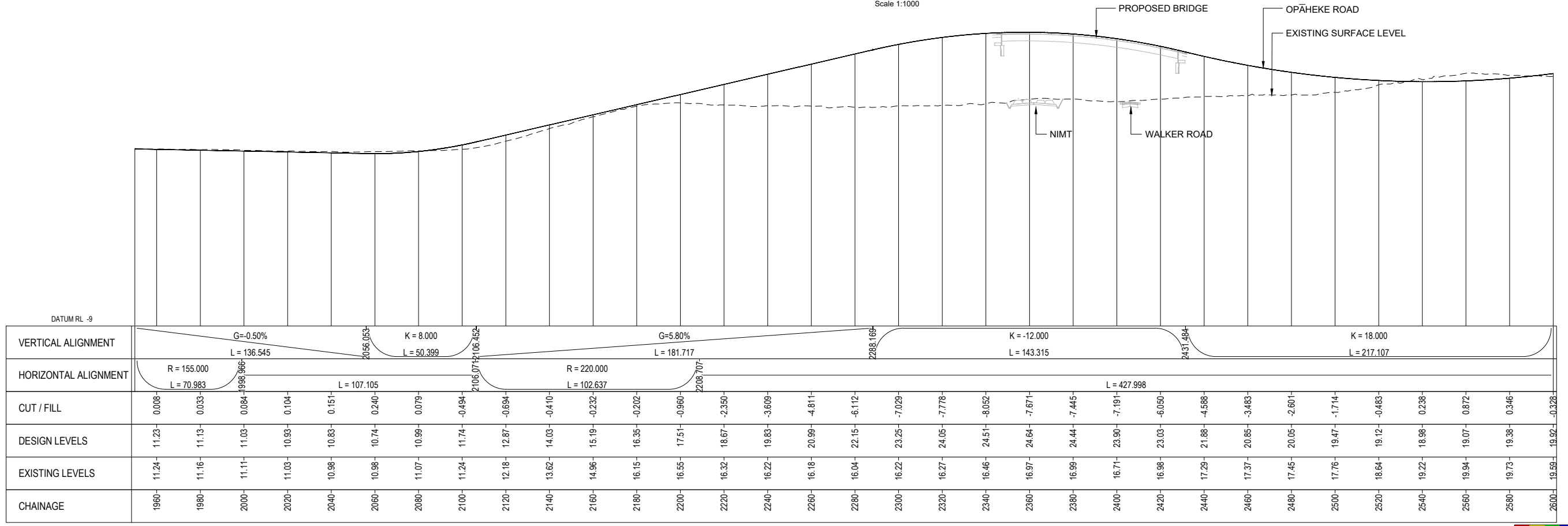
\*AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD\*  
**NOT FOR CONSTRUCTION**  
**FOR LODGEMENT**  
 Drawing Date: 27.01.2021  
 Drawing Title: CIVIL  
 Scale: 1:1000H 1:250V / 1:2000H 1:500V  
 Drawing No: SGA-DRG-STH-04-CI-9204  
 Revision: E



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**PLAN VIEW - OPAHEKE ROAD UPGRADE**  
Scale 1:1000



**LONGITUDINAL SECTION - OPAHEKE ROAD UPGRADE**  
SCALE HORIZ=1:1000 VERT=1:250

ORIGINAL IN COLOUR

ORIGINAL SIZE A1

REV	REVISIONS	DATE	APPROVED	DATE
E	ISSUED FOR NoR LODGEMENT	28.01.2021	J. DELA TORRE	27.01.2021
D	ISSUED FOR APPROVAL	21.07.2020	R. BELTRAN	27.11.2019
C	ISSUED FOR ENGAGEMENT	15.05.2020	A. REVELL	18.12.2020
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.2020	R. MASON	27.01.2021
A	DRAFT ISSUE FOR REVIEW	14.02.2020		



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (RURAL) UPGRADE (A SECTION OF NoR D5)**  
Project:  
Drawing Title:  
SHEET 1 OF 3

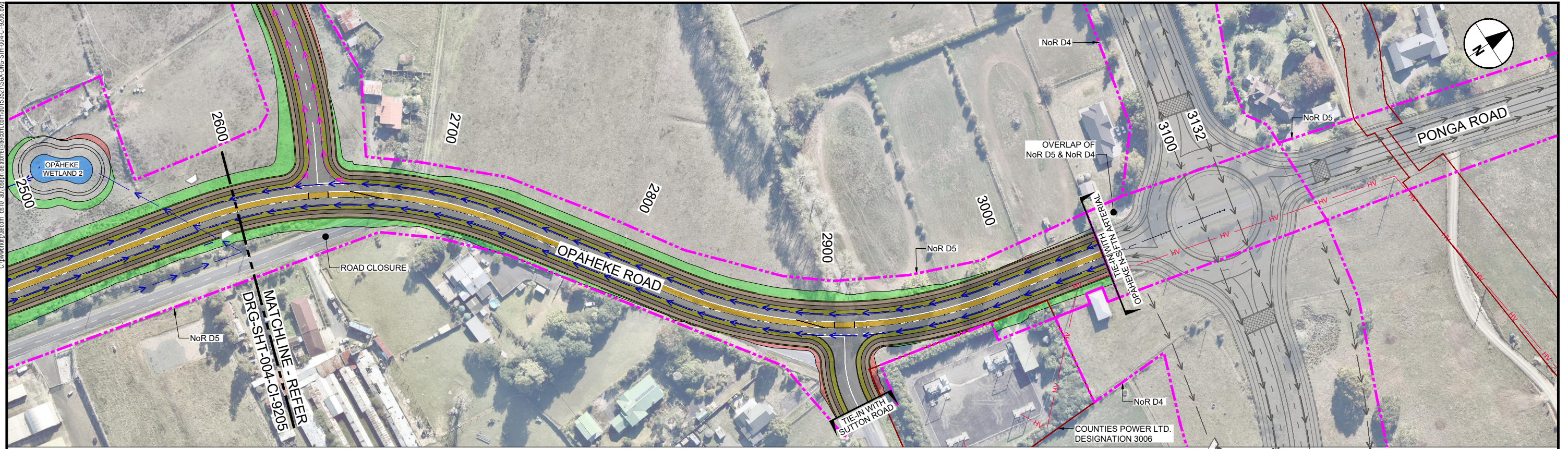
\*AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD\*

**NOT FOR CONSTRUCTION**

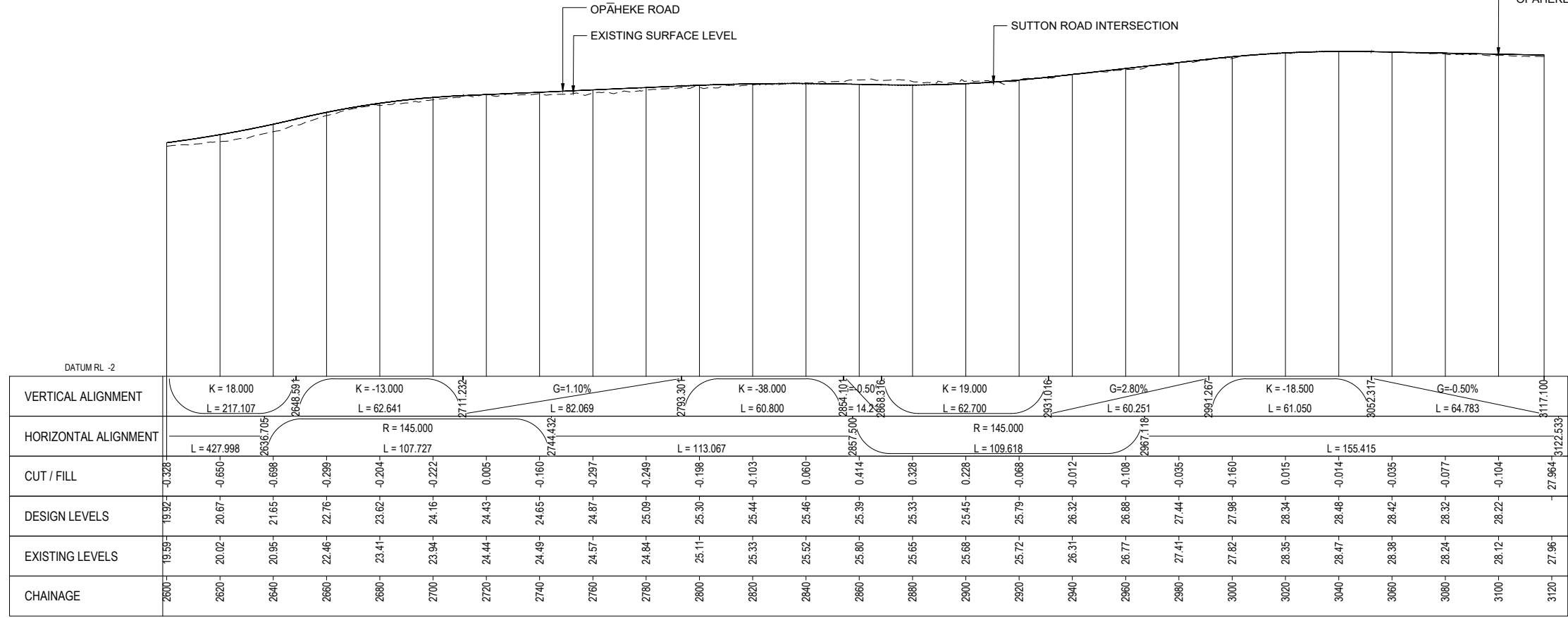
FOR LODGEMENT	
Drawing Date:	27.01.2021
A1 Scale:	1:1000H 1:250V
A3 Scale:	1:2000H 1:500V
Discipline:	CIVIL
Drawing No:	SGA-DRG-STH-004-CI-9205
Revision:	E



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**PLAN VIEW - OPAHEKE ROAD (RURAL) UPGRADE**  
Scale 1:1000



**LONGITUDINAL SECTION - OPAHEKE ROAD (RURAL) UPGRADE**  
SCALE HORIZ=1:1000 VERT=1:250

ORIGINAL SIZE A1

ORIGINAL IN COLOUR

\*AERIAL IMAGERY SUPPLIED BY NEARMAP AUSTRALIA PTY LTD\*

**NOT FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	APPROVED	DATE
A	DRAFT ISSUE FOR REVIEW	14.02.2020	R. MASON	27.01.2021
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.2020	A. REVELL	18.12.2020
C	ISSUED FOR ENGAGEMENT	15.05.2020	R. BELTRAN	27.11.2019
D	ISSUED FOR APPROVAL	21.07.2020	J. DELA TORRE	27.01.2021
E	ISSUED FOR NoR LODGEMENT	28.01.2021	G. BROWN	27.11.2019



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD (RURAL) UPGRADE (A SECTION OF NoR D5)**  
Project:  
Drawing Title:  
**PLAN AND LONGITUDINAL SECTION**  
SHEET 3 OF 3

Drawing Status:		<b>FOR LODGEMENT</b>	
Drawing Date:		27.01.2021	
A1 Scale: Discipline:	1:1000H 1:250V CIVIL	A3 Scale: Discipline:	1:2000H 1:500V
Drawing No:	SGA-DRG-STH-004-CI-9206	Revision:	<b>E</b>

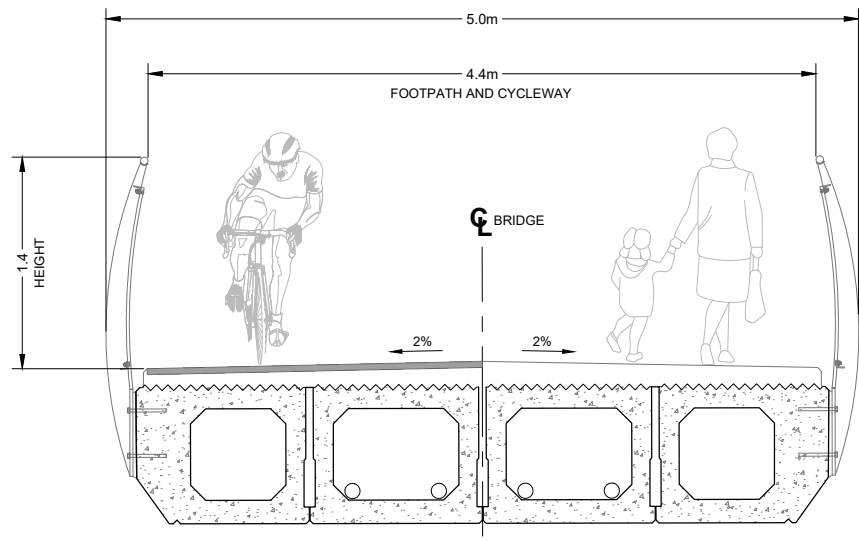




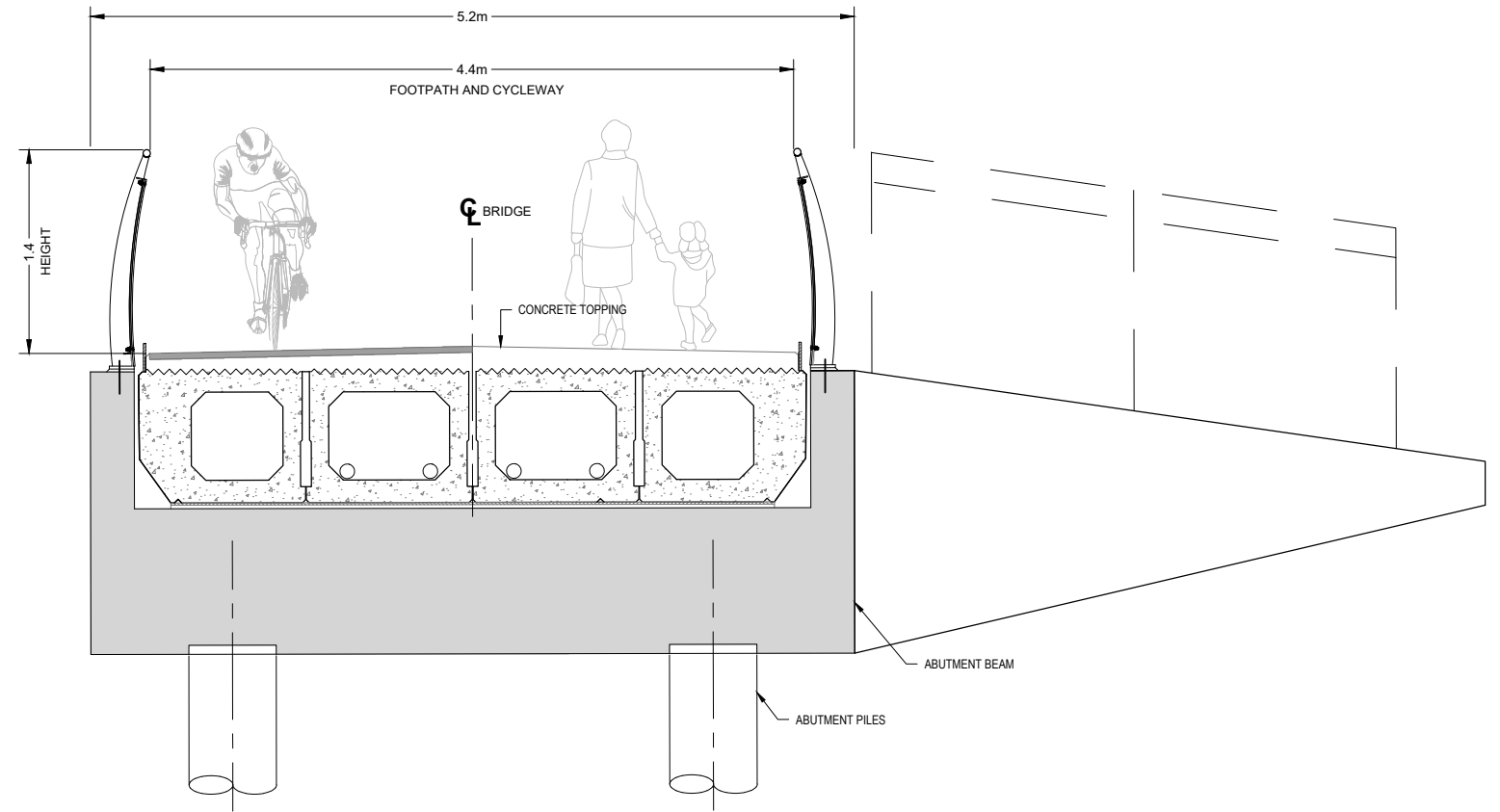


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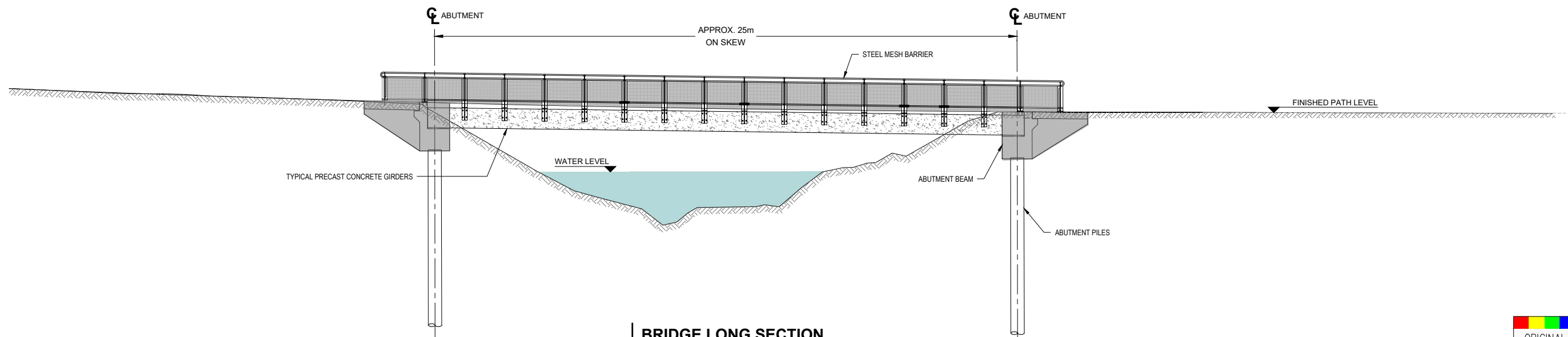
**NOTES:**  
 1. BRIDGE DESIGN IS INDICATIVE ONLY.  
 2. UNLESS NOTED OTHERWISE, UTILITIES SHOWN ARE INDICATIVE ONLY.



**BRIDGE CROSS SECTION**  
 Scale : NTS



**BRIDGE ABUTMENT SECTION**  
 Scale : NTS



**BRIDGE LONG SECTION**  
 Scale : NTS

ORIGINAL SIZE A1



**NOT FOR CONSTRUCTION**

REV	REVISIONS	DATE
E	ISSUED FOR NOB LODGEMENT	JDT 28.01.2021
D	ISSUED FOR APPROVAL	AG 21.07.2020
C	ISSUED FOR ENGAGEMENT	AG 15.05.2020
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	AG 28.02.2020
A	DRAFT ISSUE FOR REVIEW	AG 14.02.2020

SURVEYED	N/A	DATE
DRAWN	A. GARCIA	28.11.2019
DRAWING CHECK	J. DELA TORRE	21.12.2020
DESIGN	A. REVELL	18.12.2020
DESIGN REVIEW	K. CRAWFORD	18.12.2020
APPROVED	R. MASON	27.01.2021



**SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD UPGRADE**  
 Project:  
 Drawing Title:  
**OPAHEKE ROAD ACTIVE MODE BRIDGES**  
**SECTIONS**

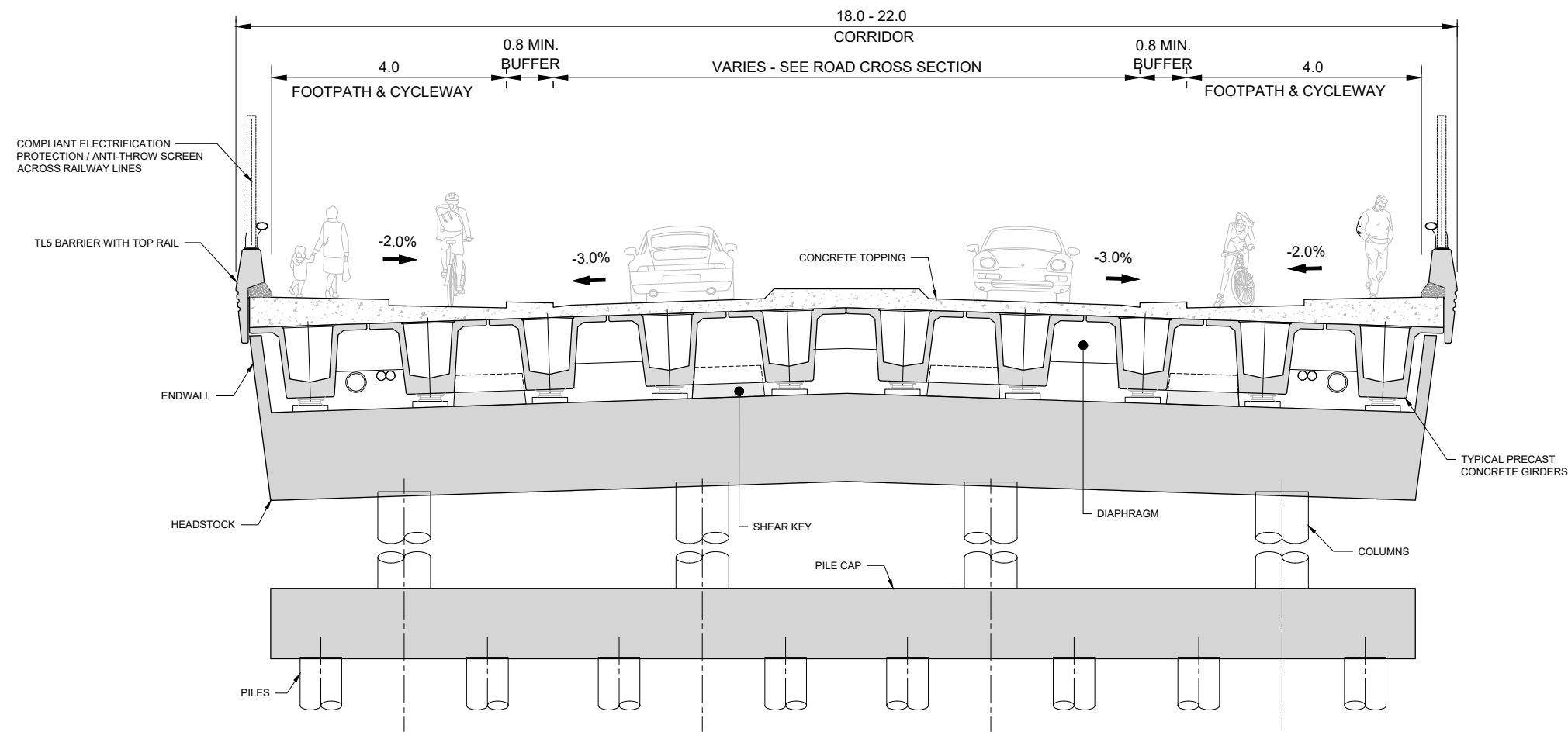
Drawing Status: <b>FOR APPROVAL</b>			
Drawing Date: 27.01.2021			
A1	NTS	A3	NTS
Discipline: STRUCTURAL			
Drawing No: SGA-DRG-STH-004-ST-9720			Revision: <b>E</b>



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**NOTES:**

- BRIDGE DESIGN IS INDICATIVE ONLY.
- UNLESS NOTED OTHERWISE, UTILITIES SHOWN ARE INDICATIVE ONLY.



**TYPICAL CROSS SECTION - TWO LANE BRIDGE**  
Scale : NTS

ORIGINAL SIZE A1



**NOT FOR CONSTRUCTION**

REV	REVISIONS	DATE	DRAWN	DATE	APPROVED	DATE
E	ISSUED FOR NOB LODGEMENT	28.01.2021	JDT	28.01.2021		
D	ISSUED FOR APPROVAL	21.07.2020	AG	21.07.2020	J. DELA TORRE	21.12.2020
C	FOR ENGAGEMENT	15.05.2020	JT	15.05.2020	A. REVELL	18.12.2020
B	ISSUED FOR ASSESSMENT OF EFFECTS ON ENVIRONMENT	28.02.2020	AG	28.02.2020	K. CRAWFORD	18.12.2020
A	DRAFT ISSUE FOR REVIEW	14.02.2020	AG	14.02.2020	R. MASON	27.01.2021



Project: **SUPPORTING GROWTH PROGRAMME**  
**DRURY - OPAHEKE ROAD UPGRADE**  
Drawing Title: **TWO LANE BRIDGE**  
**TYPICAL CROSS SECTION**

Drawing Status: <b>FOR APPROVAL</b>	
Drawing Date: 27.01.2021	
A1 Scale: 1:50	A3 Scale: 1:100
Discipline: <b>STRUCTURE</b>	
Drawing No: <b>SGA-DRG-STH-004-ST-9721</b>	Revision: <b>E</b>