

CHRISTCHURCH MAIN SOUTH ROAD FOUR LANING



FOR CONSENT

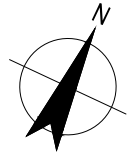
0	FOR CONSENT	AF	DGA	GAP	29.08.12
No	Revision	Drawn	Checked	Approved	Date
Note: * indicates signatures on original issue of drawing or last revision of drawing					



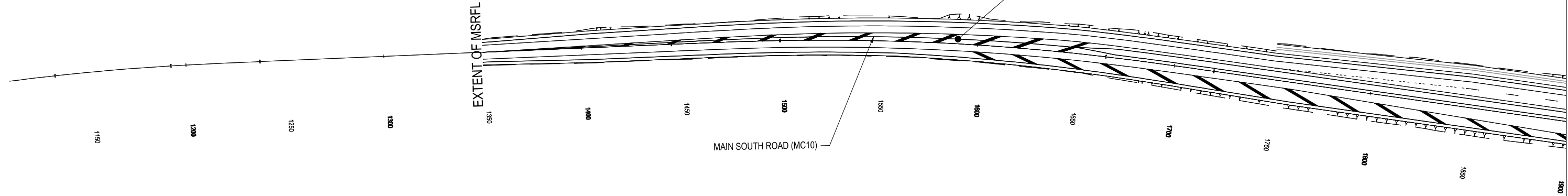
DO NOT SCALE
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Drawn	AMW	Designed	KGA
Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	N.T.S.		

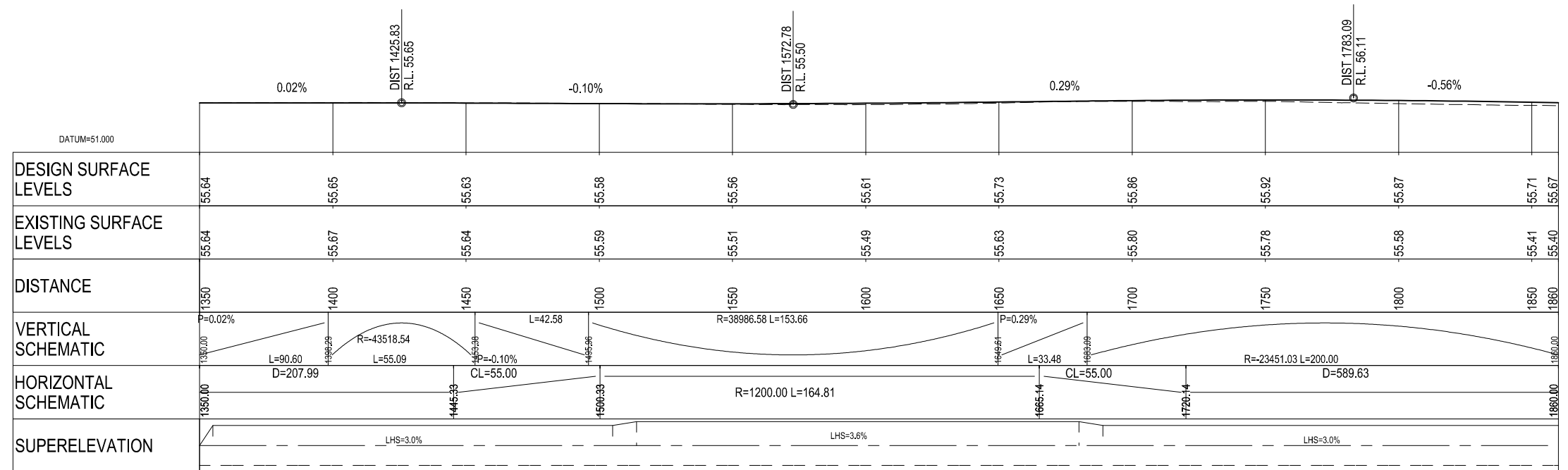
Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLANS & LONGITUDINAL SECTIONS SHEET LAYOUT		
Drawing No:	62236-A-C100	Rev:	0



MC10 - CURVE 1	
RADIUS (m)	1200
DESIGN SPEED (km/h)	100
SUPERELEVATION (%)	3.6
ROTATION RATE (%/s)	2.0
CURVE LENGTH (m)	165



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12

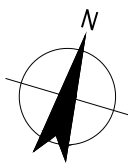


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Drawn	CK/AMW	Designed	KGA
Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	HALF SIZE AS SHOWN		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION SHEET 1 OF 7		
Drawing No:	62236-A-C101		Rev: 0

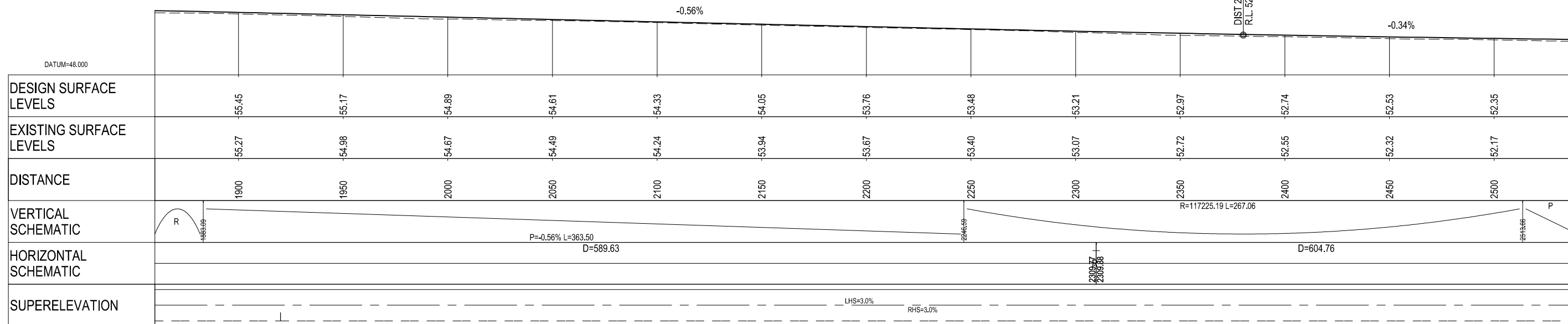


MAIN SOUTH ROAD (MC10)



1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500

PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

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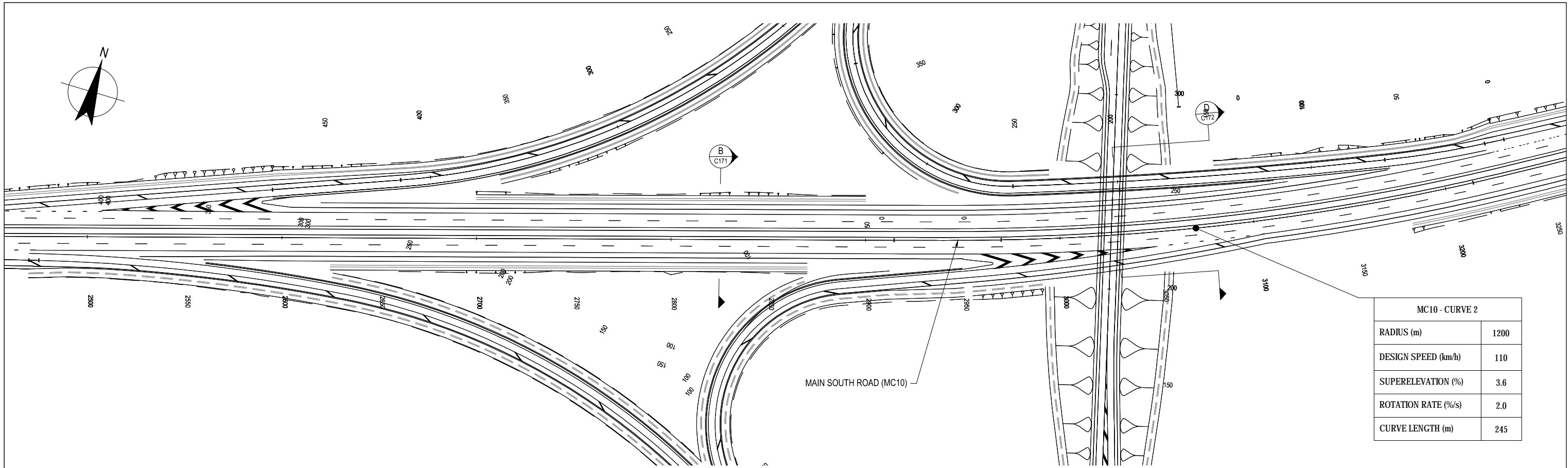


DO NOT SCALE

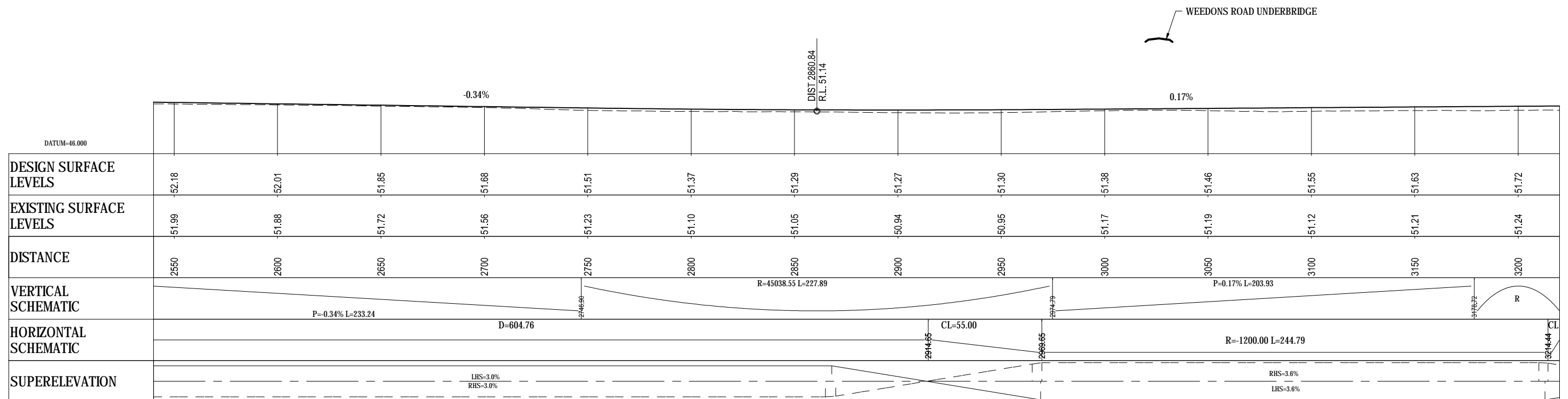
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A3 Scale	HALF SIZE AS SHOWN		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION SHEET 2 OF 7		
Drawing No:	62236-A-C102		Rev: 0



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

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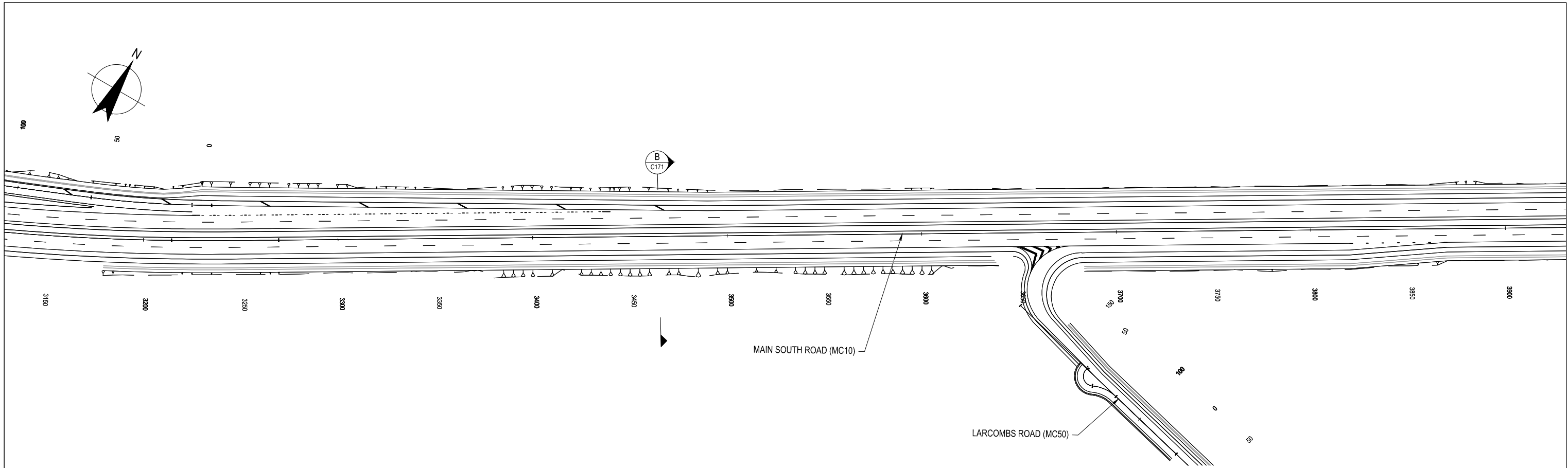


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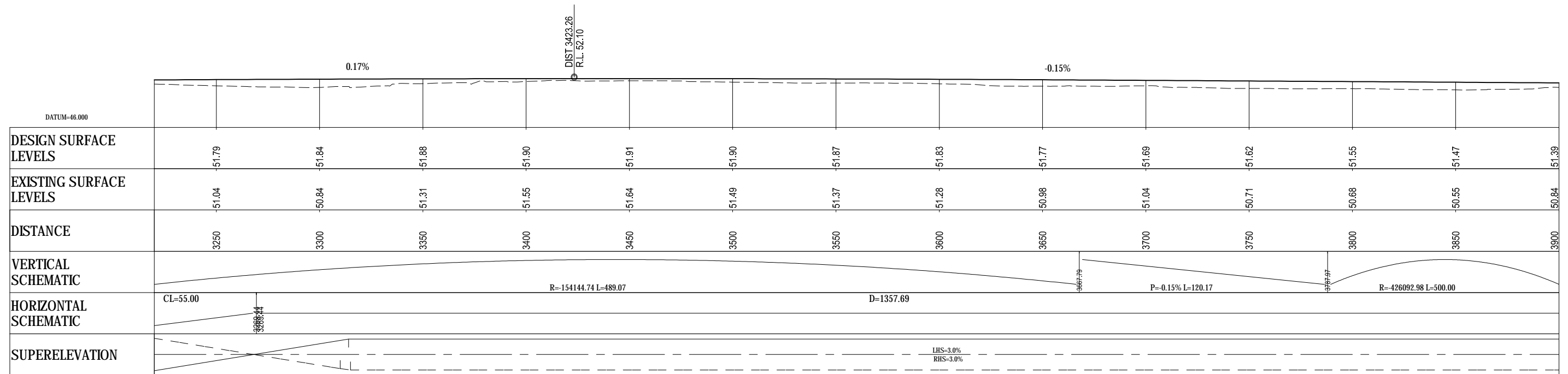
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Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION SHEET 3 OF 7		
Drawing No:	62236-A-C103		Rev: 0



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

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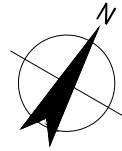


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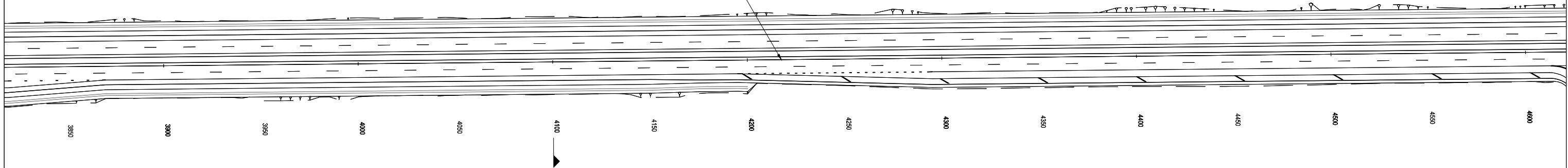
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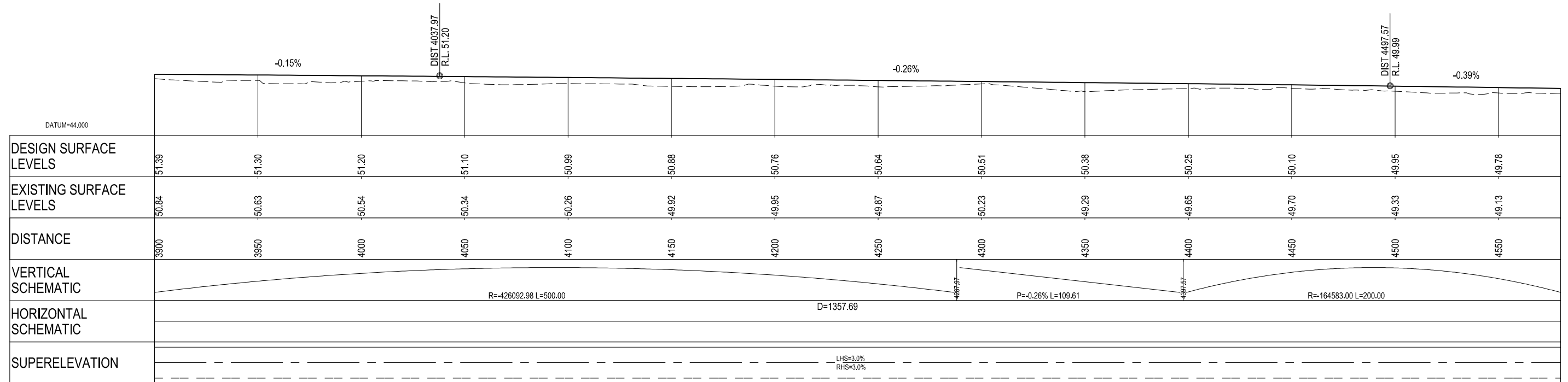
Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION SHEET 4 OF 7		
Drawing No:	62236-A-C104		Rev: 0



MAIN SOUTH ROAD (MC10)



PLAN
SCALE 1:1000 (A12) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
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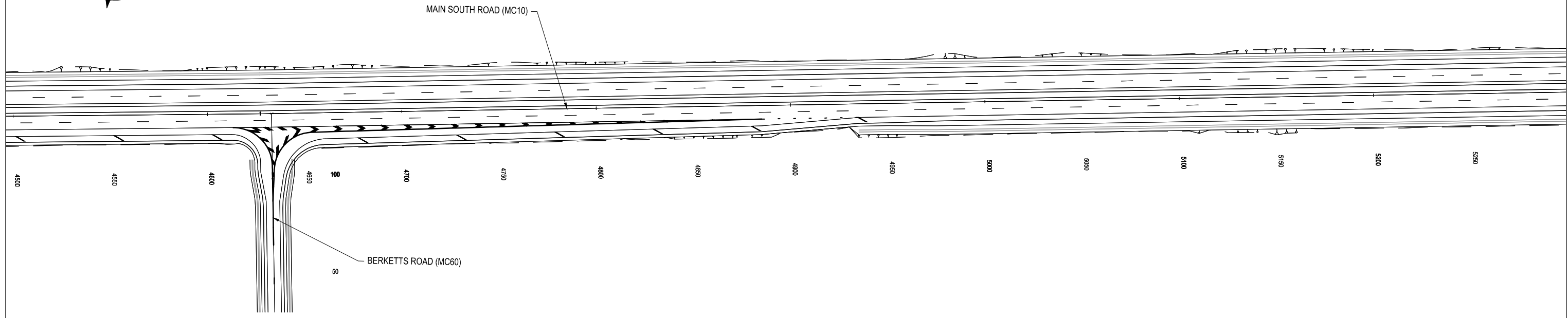
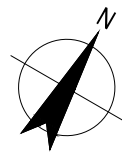


DO NOT SCALE

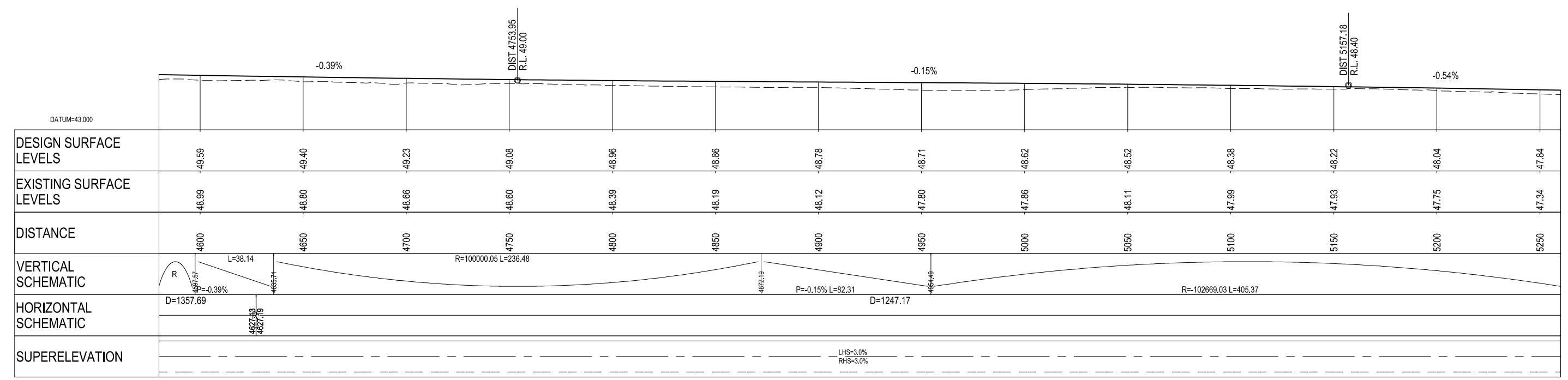
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Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	HALF SCALE SHOWN		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION SHEET 5 OF 7		
Drawing No:	62236-A-C105		Rev: 0



PLAN
SCALE 1:1000 (A1) 1:2000(A3)



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

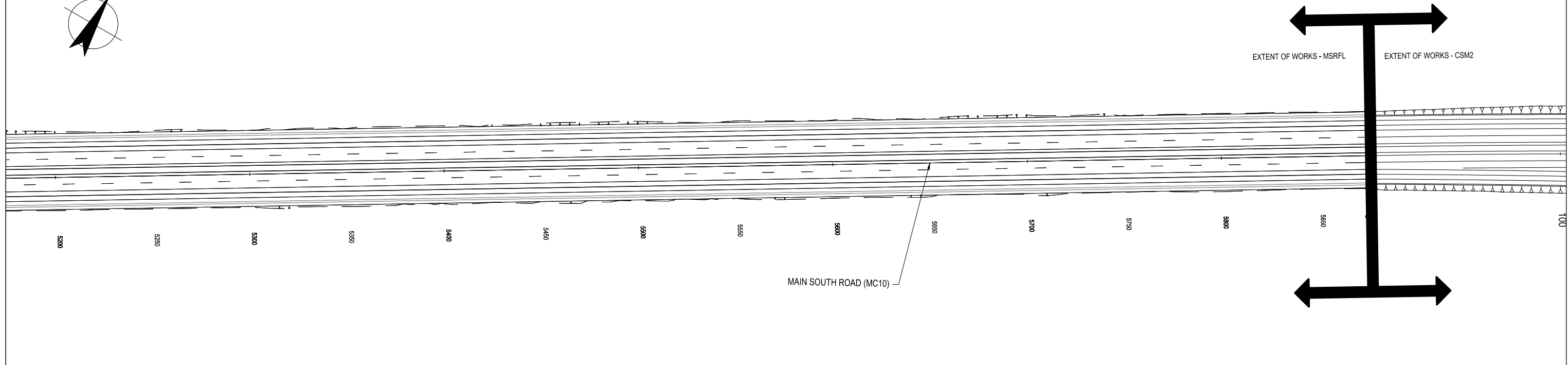
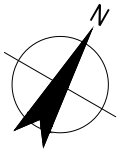
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0	FOR CONSENT		AF	DGA	GAP	29.08.12

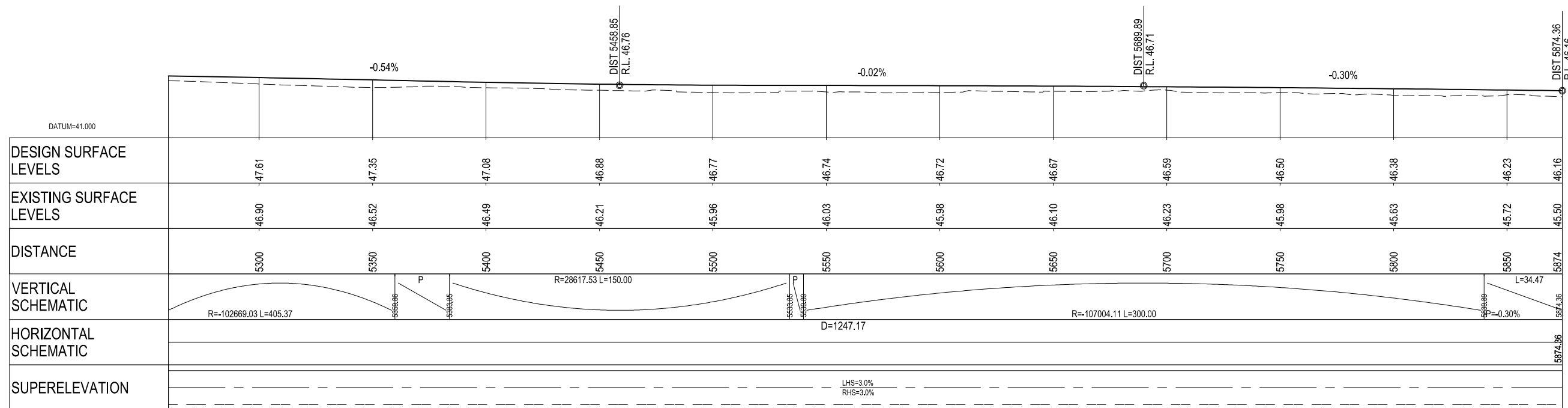


DO NOT SCALE	Drawn CK	Designed KGA
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	Approved GARY PAYNE	
	Date 29.08.12	
A1 Scale	This Drawing must not be used for Construction unless signed as Approved	
A3 Scale HALF SIZE AS SHOWN		

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350 3.92 RP365 2.11
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION SHEET 6 OF 7
Drawing No:	62236-A-C106
Rev:	0



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12
No	Revision	Drawn	Checked	Approved	Date

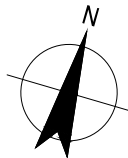


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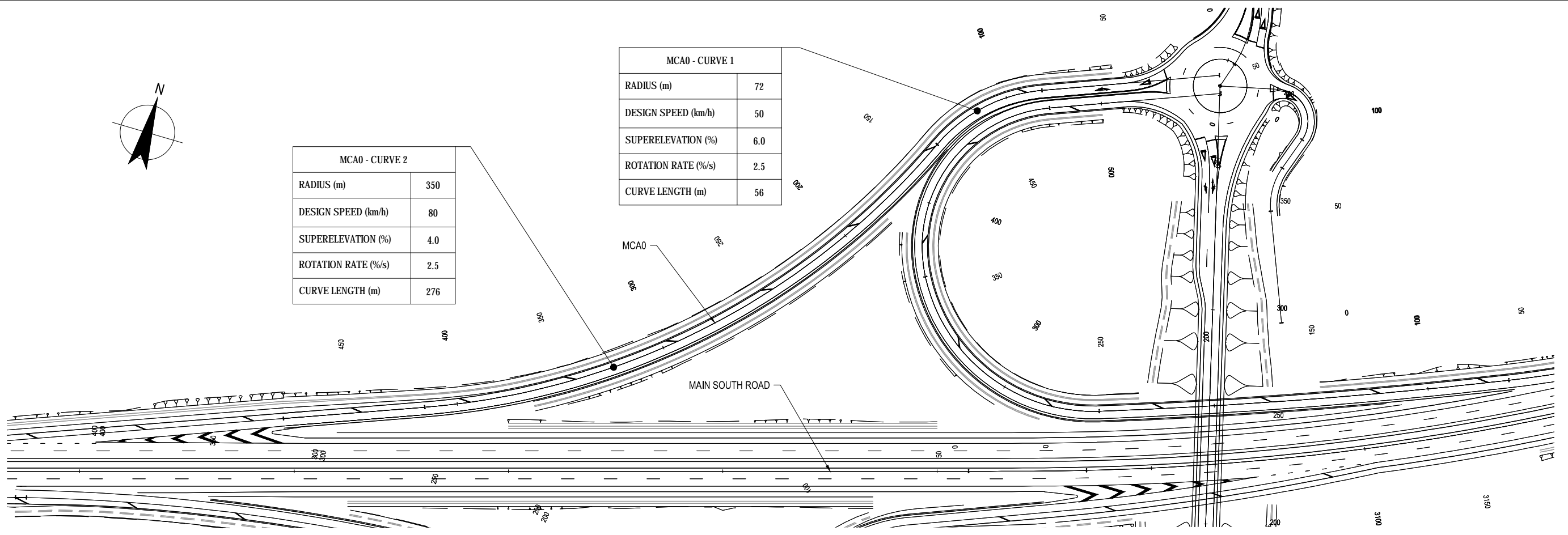
Drawn	CK	Designed	KGA
Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
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Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION SHEET 7 OF 7		
Drawing No:	62236-A-C107		Rev: 0

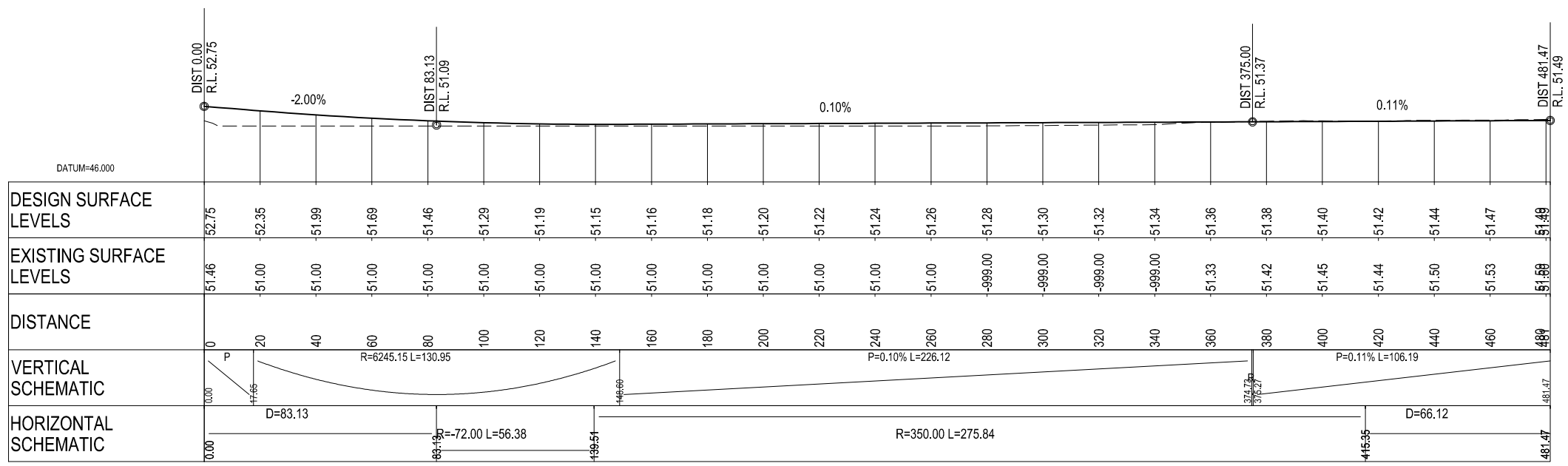


MCA0 - CURVE 2	
RADIUS (m)	350
DESIGN SPEED (km/h)	80
SUPERELEVATION (%)	4.0
ROTATION RATE (%/s)	2.5
CURVE LENGTH (m)	276

MCA0 - CURVE 1	
RADIUS (m)	72
DESIGN SPEED (km/h)	50
SUPERELEVATION (%)	6.0
ROTATION RATE (%/s)	2.5
CURVE LENGTH (m)	56



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



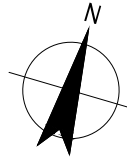
NZ TRANSPORT AGENCY
WAKA KOTAHI



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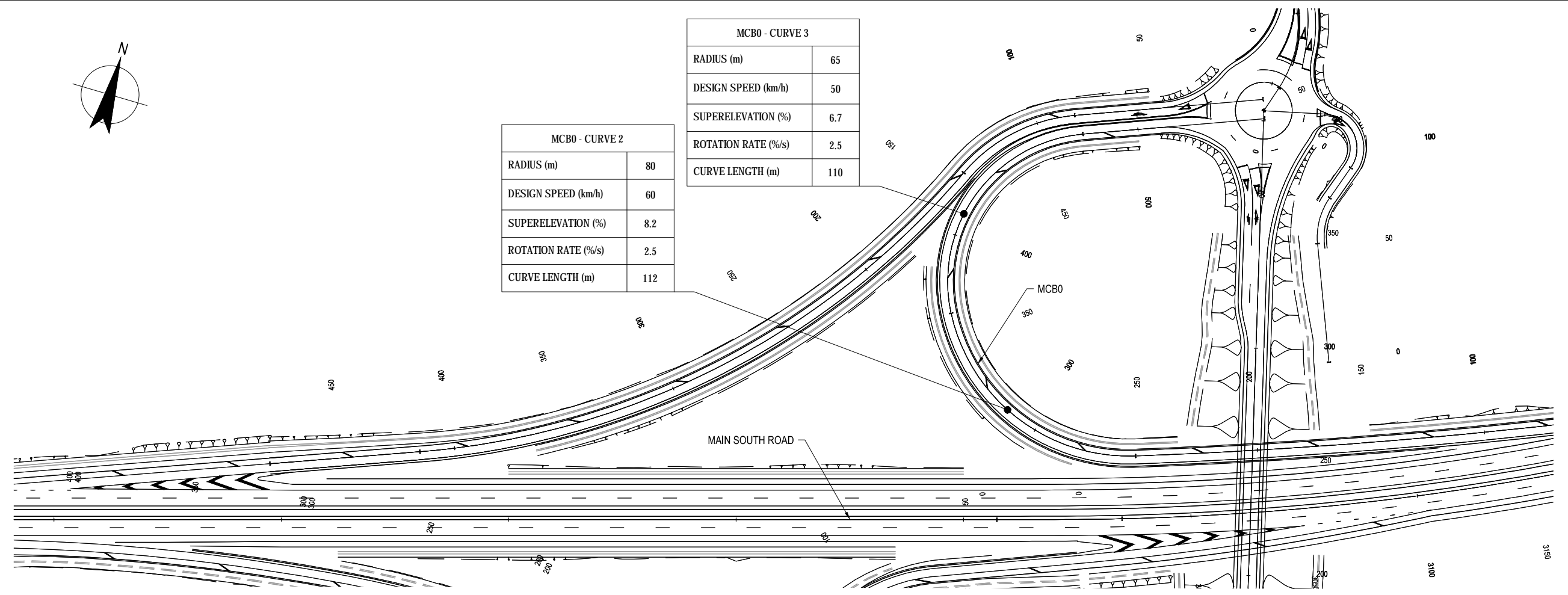
Drawn	CK	Designed	KGA
Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
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Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION - MCA0		
Drawing No:	62236-A-C110		Rev: 0

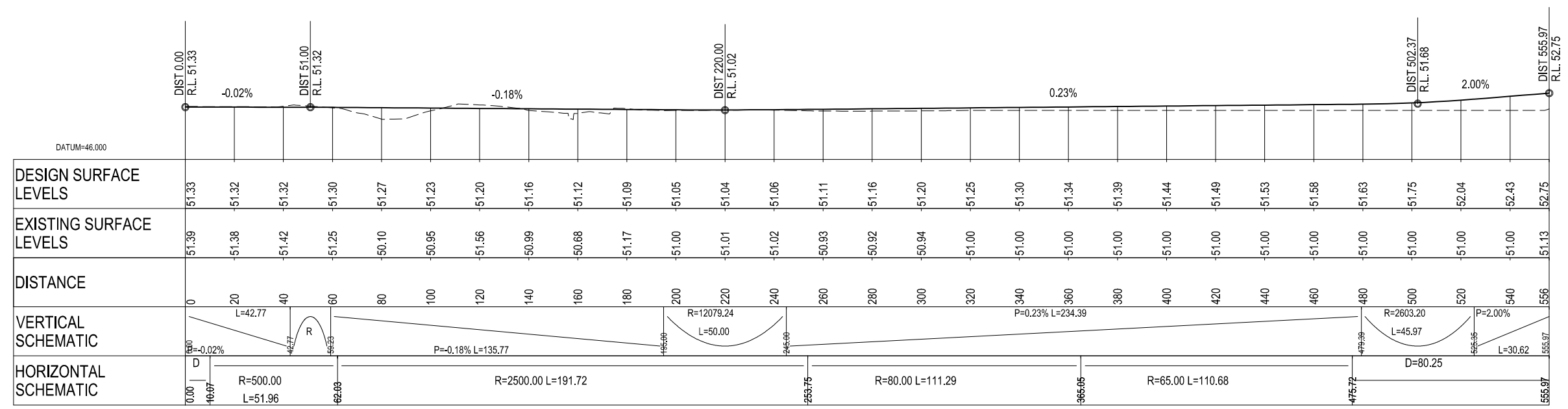


MCB0 - CURVE 2	
RADIUS (m)	80
DESIGN SPEED (km/h)	60
SUPERELEVATION (%)	8.2
ROTATION RATE (%/s)	2.5
CURVE LENGTH (m)	112

MCB0 - CURVE 3	
RADIUS (m)	65
DESIGN SPEED (km/h)	50
SUPERELEVATION (%)	6.7
ROTATION RATE (%/s)	2.5
CURVE LENGTH (m)	110



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MCB0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
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NZ TRANSPORT AGENCY
WAKA KOTAHI

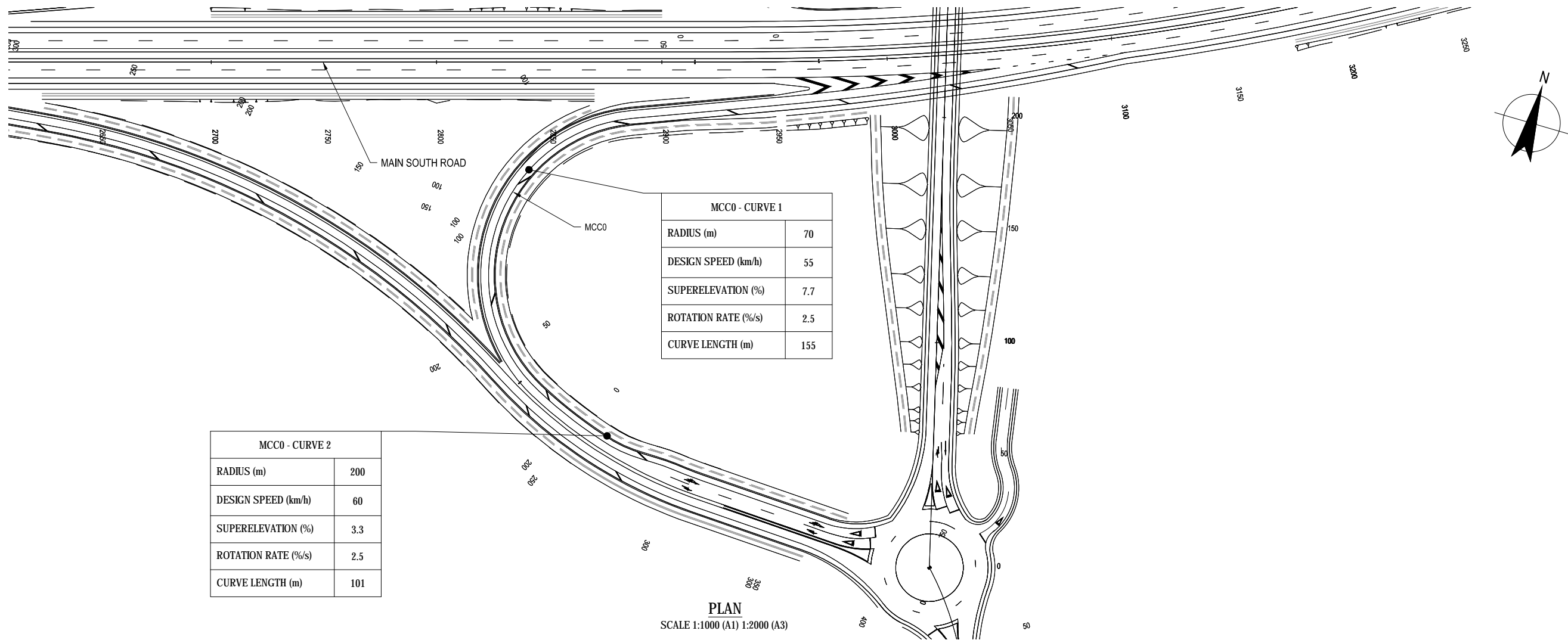
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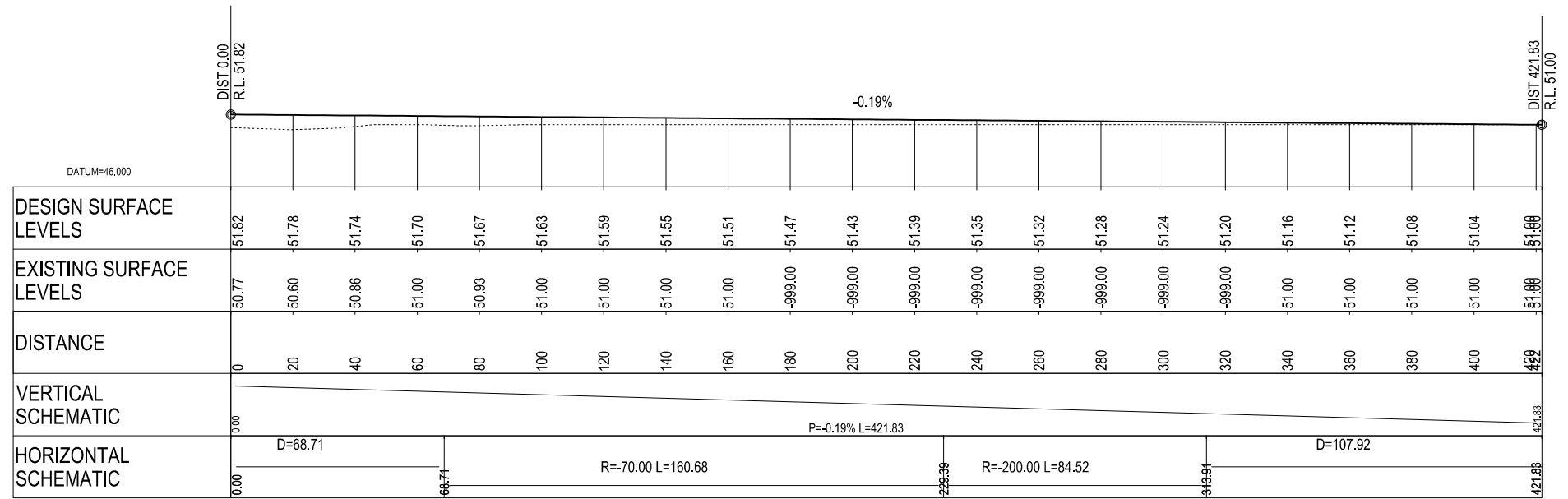
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Drafting Check	NJD	Design Check	DGA
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Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION - MCB0		
Drawing No:	62236-A-C111		Rev: 0



MCC0 - CURVE 2	
RADIUS (m)	200
DESIGN SPEED (km/h)	60
SUPERELEVATION (%)	3.3
ROTATION RATE (%/s)	2.5
CURVE LENGTH (m)	101

PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MCC0
SCALE HORIZ=1:1000 VERT=1:250

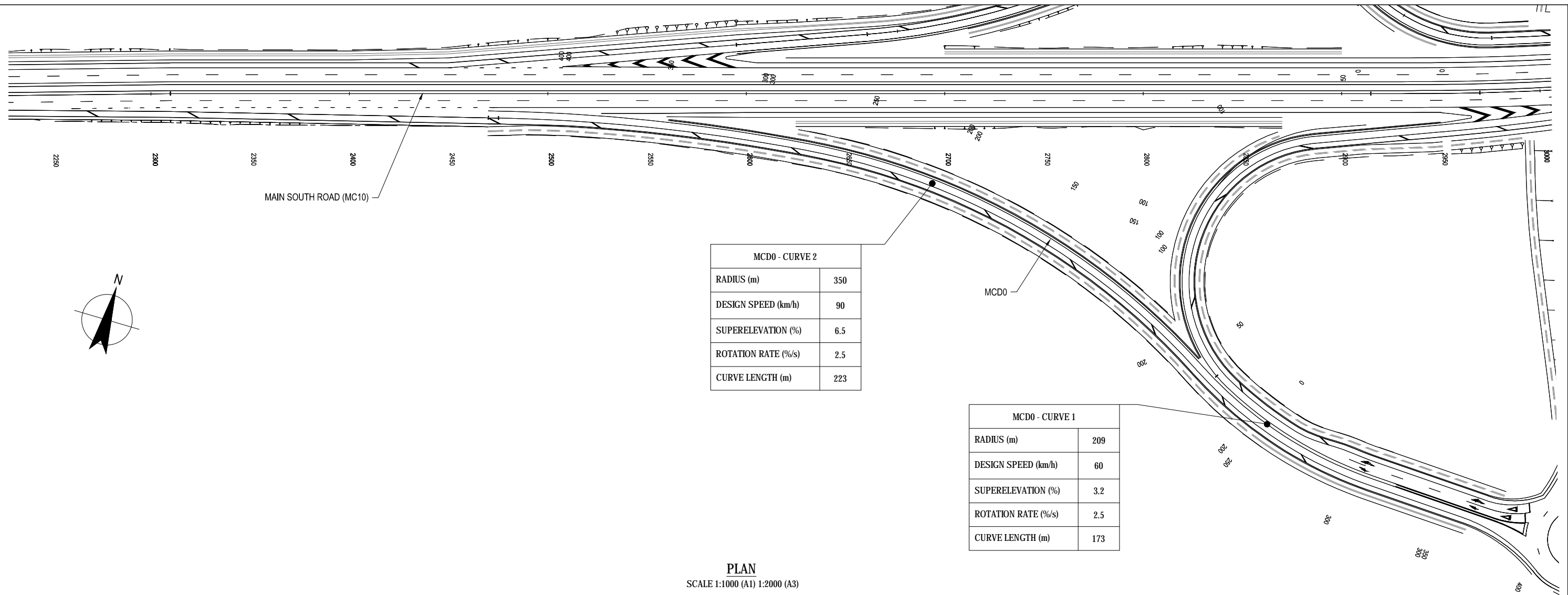
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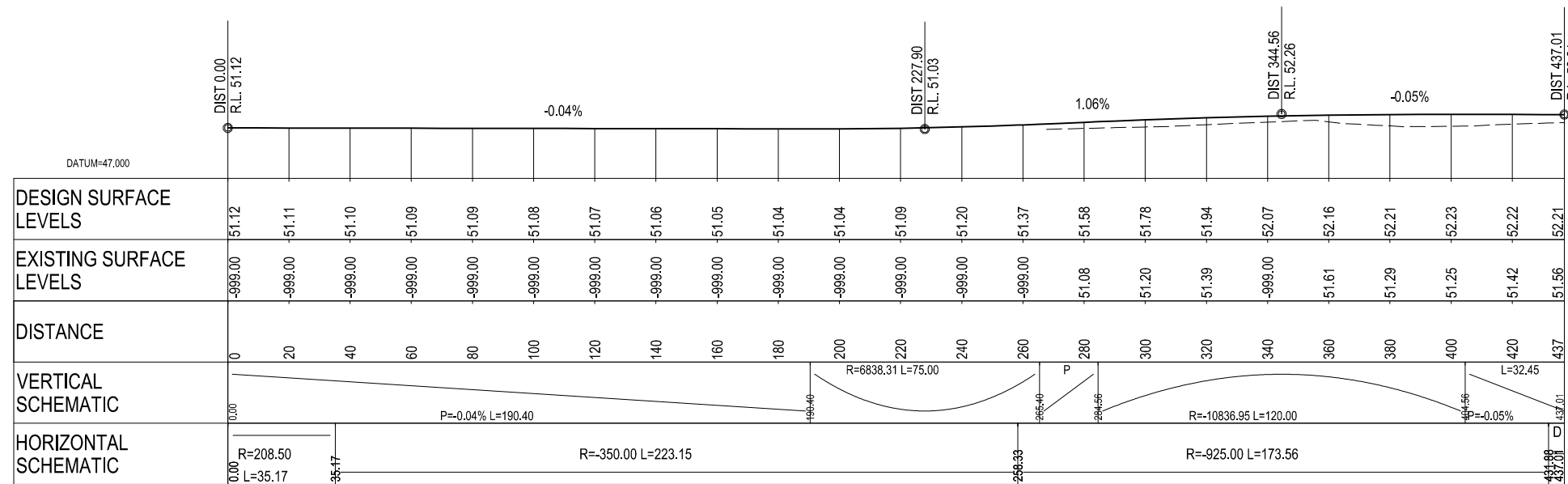


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	Approved GARY PAYNE	
	Date 29.08.12	
A1 Scale	This Drawing must not be used for Construction unless signed as Approved	
A3 Scale HALF SIZE AS SHOWN		

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350 3.92 RP365 2.11
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION - MCC0
Drawing No:	62236-A-C112
Rev:	0



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MCD0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

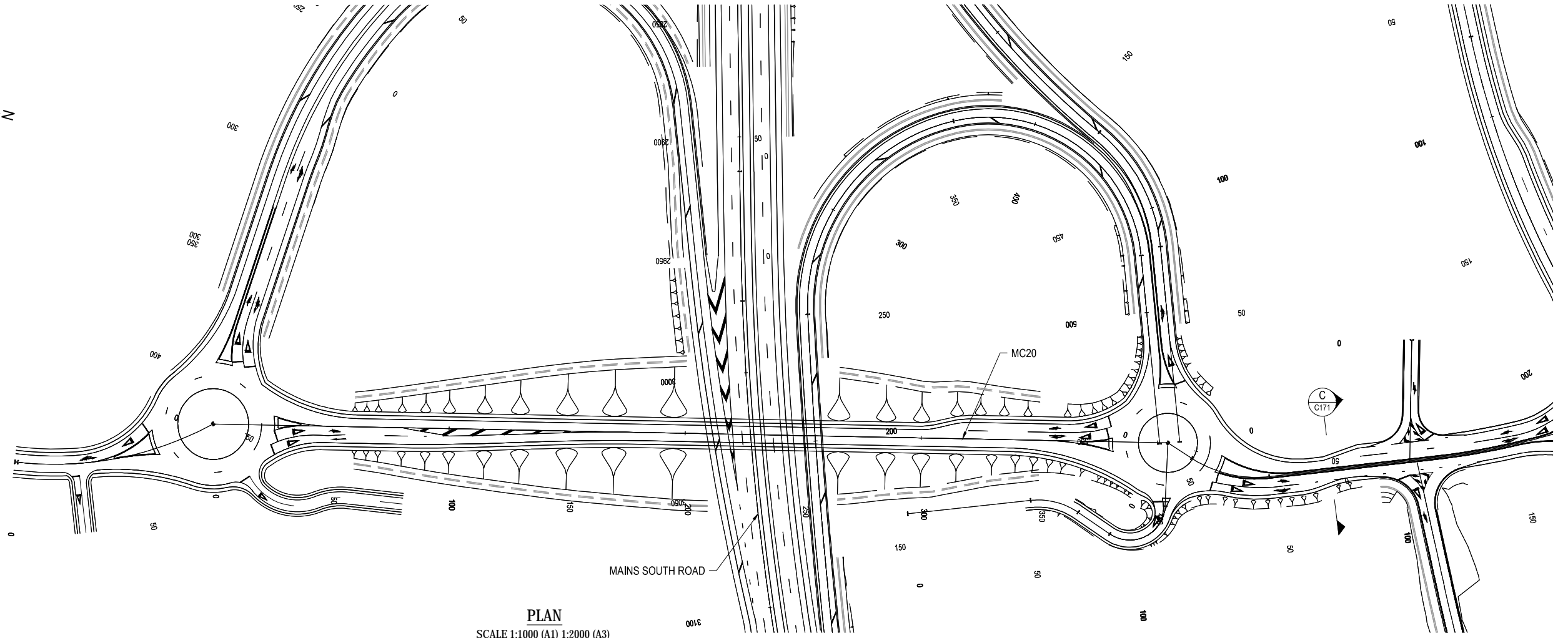
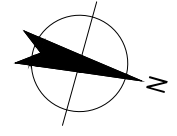
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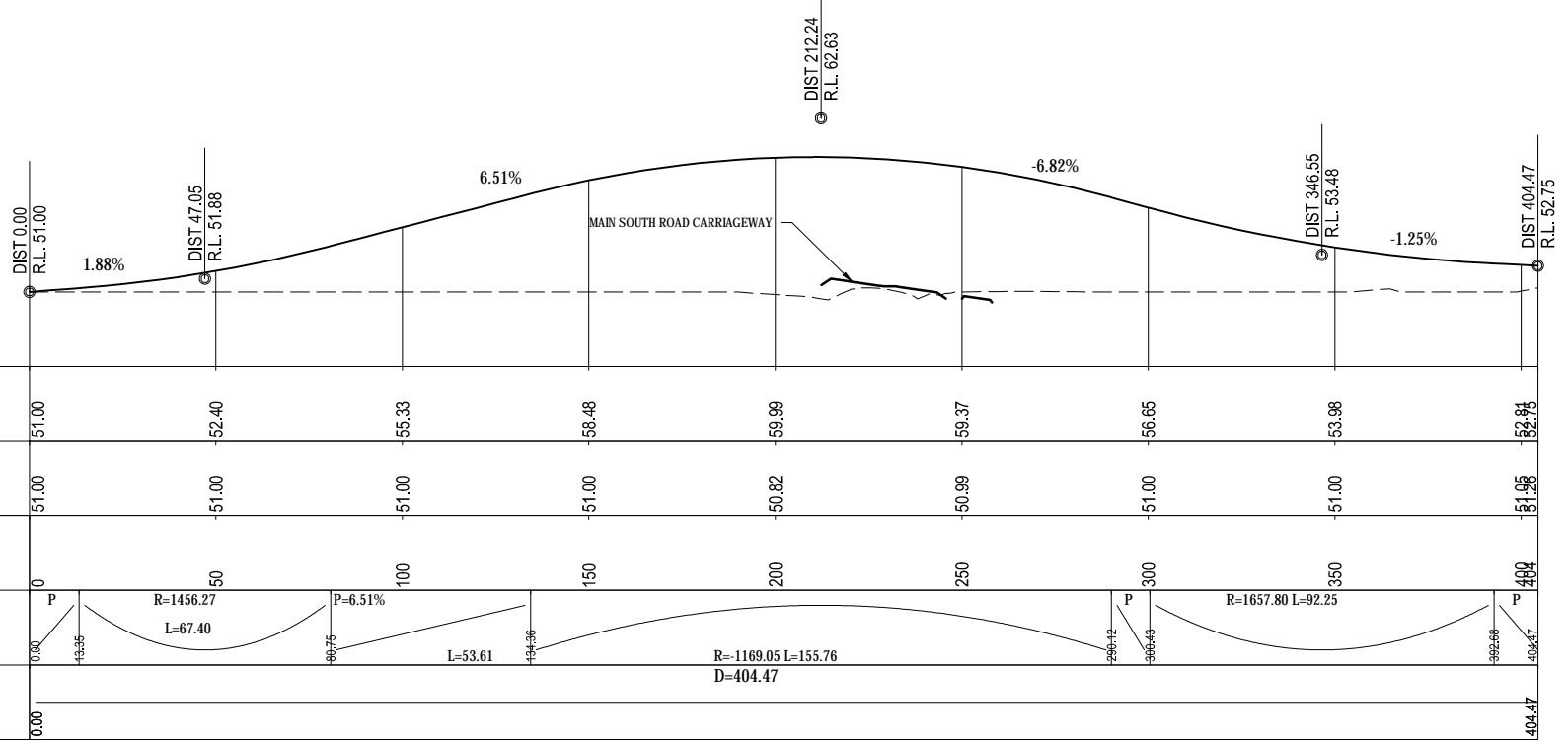
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Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION - MCD0		
Drawing No:	62236-A-C113		Rev: 0



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



Distance	Design Surface Levels (R.L.)	Existing Surface Levels (R.L.)	Distance	Vertical Schematic	Horizontal Schematic
0.00	51.00	51.00	0	P	0.00
50	52.40	51.00	50	R=1456.27 L=67.40	46.35
100	55.33	51.00	100	P=6.51%	48.75
150	58.48	51.00	150	L=53.61	44.36
200	59.99	50.82	200	R=1169.05 L=155.76	40.47
250	59.37	50.99	250		36.12
300	56.65	51.00	300	P	36.43
350	53.98	51.00	350	R=1657.80 L=92.25	32.88
404.47	52.75	51.98	404.47	P	40.47

LONGITUDINAL SECTION ON CONTROL STRING MC20
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

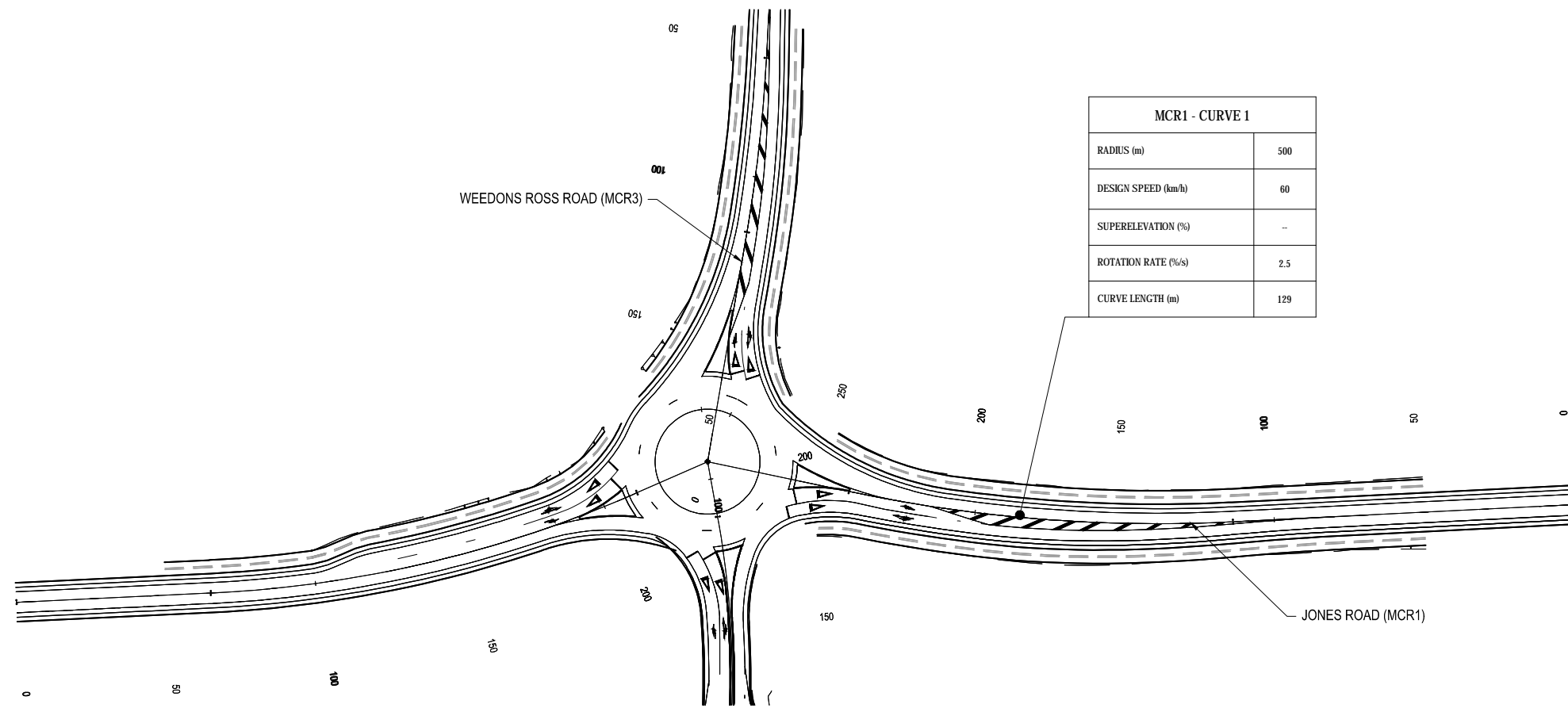
No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



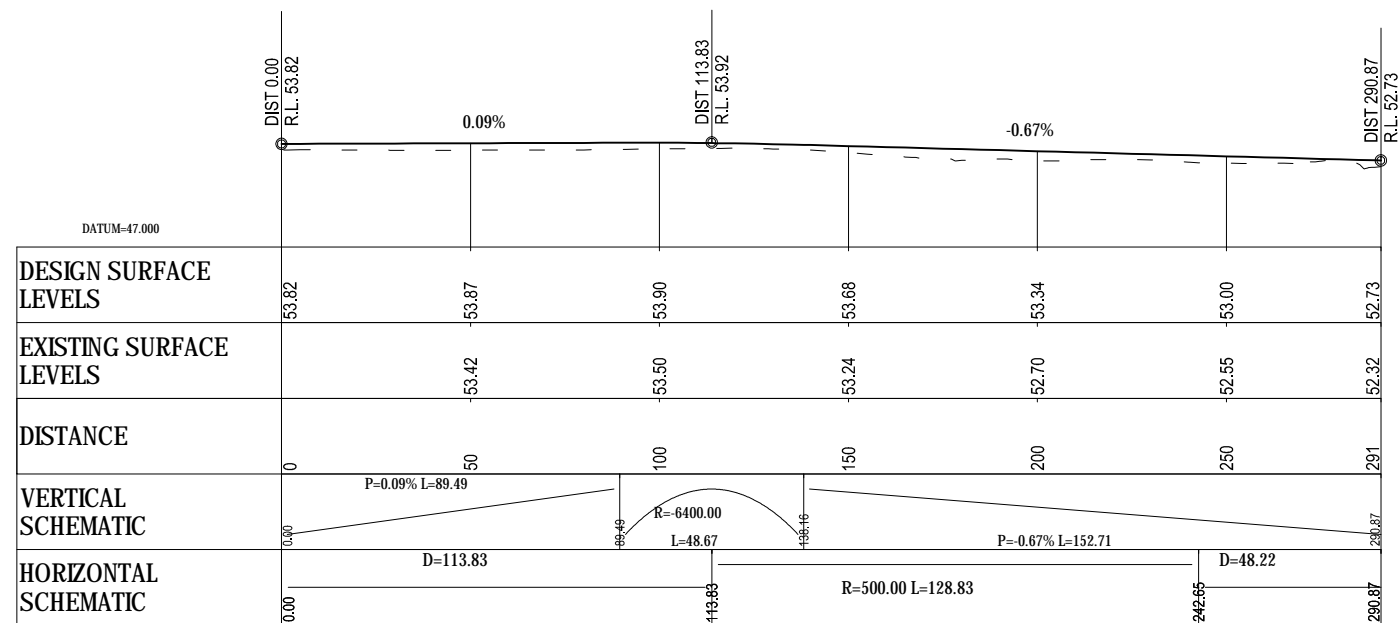
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A3 Scale	A3 HALF SIZE SHOWN		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANING PLAN AND LONGITUDINAL SECTION - MC20		
Drawing No:	62236-A-C120		Rev: 0



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MCR1
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



DO NOT SCALE

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Drawn	CK	Designed	KGA
Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	A3 HALF SIZE SHOWN		

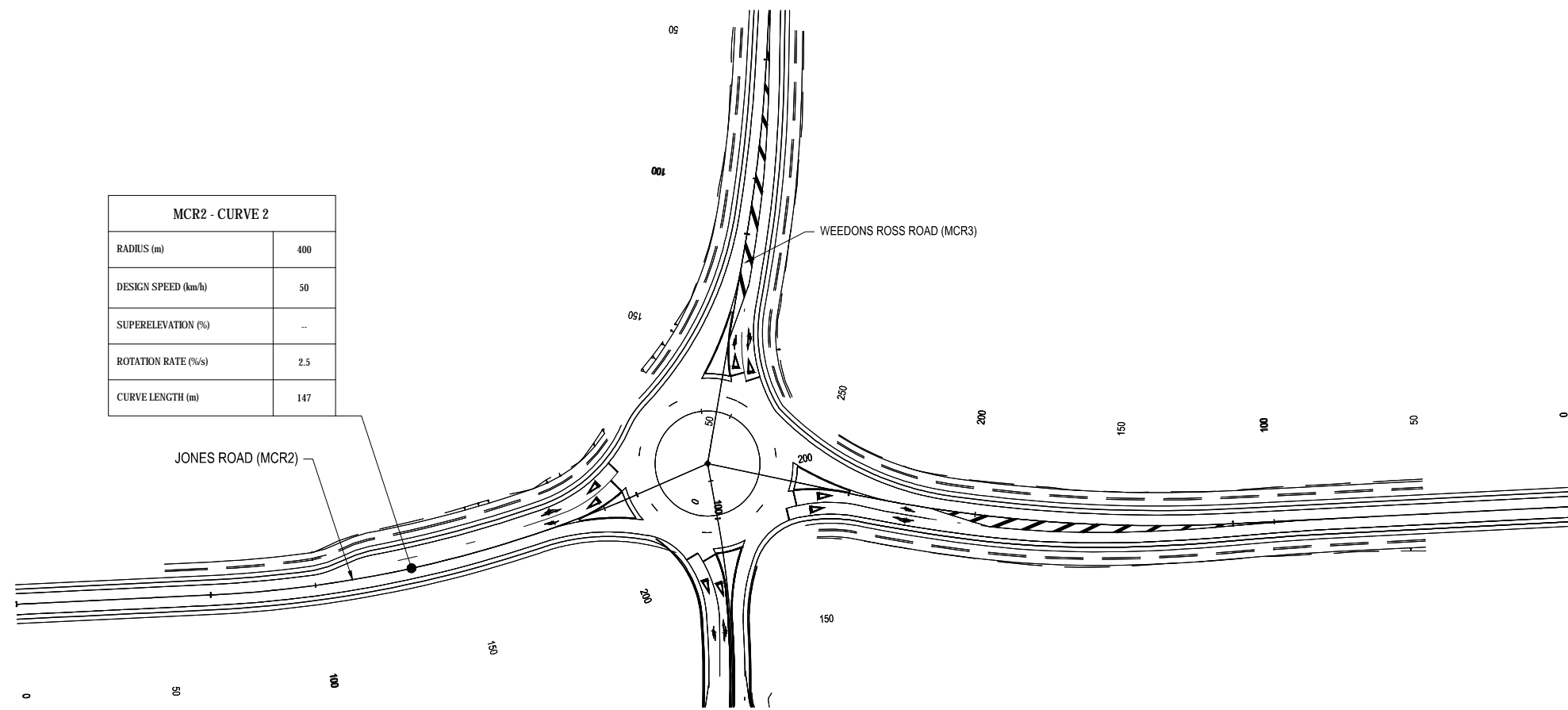
Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350 3.92 RP365 2.11
Title	MAIN SOUTH ROAD FOUR LANE PLAN AND LONGITUDINAL SECTION - MCR1

Drawing No: **62236-A-C131**

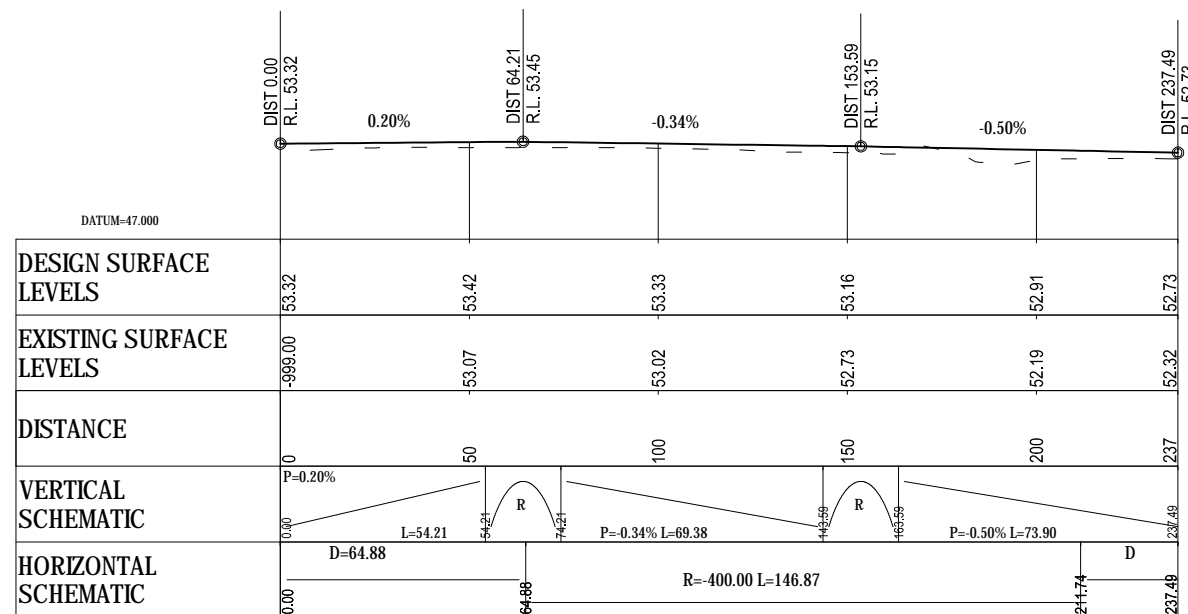
Rev: **0**



MCR2 - CURVE 2	
RADIUS (m)	400
DESIGN SPEED (km/h)	50
SUPERELEVATION (%)	-
ROTATION RATE (%/s)	2.5
CURVE LENGTH (m)	147



PLAN
SCALE 1:1000 (A1) 1:2000 (A3)



LONGITUDINAL SECTION ON CONTROL STRING MCR2
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



DO NOT SCALE

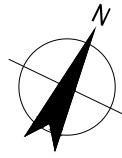
This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.

Drawn	AMW	Designed	KGA
Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	A3 HALF SIZE SHOWN		

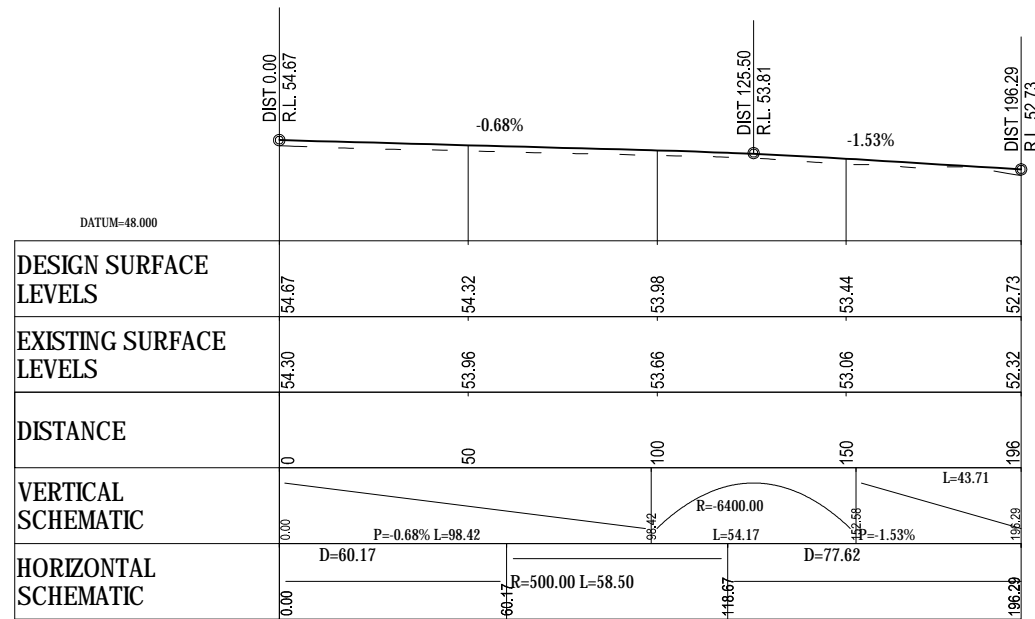
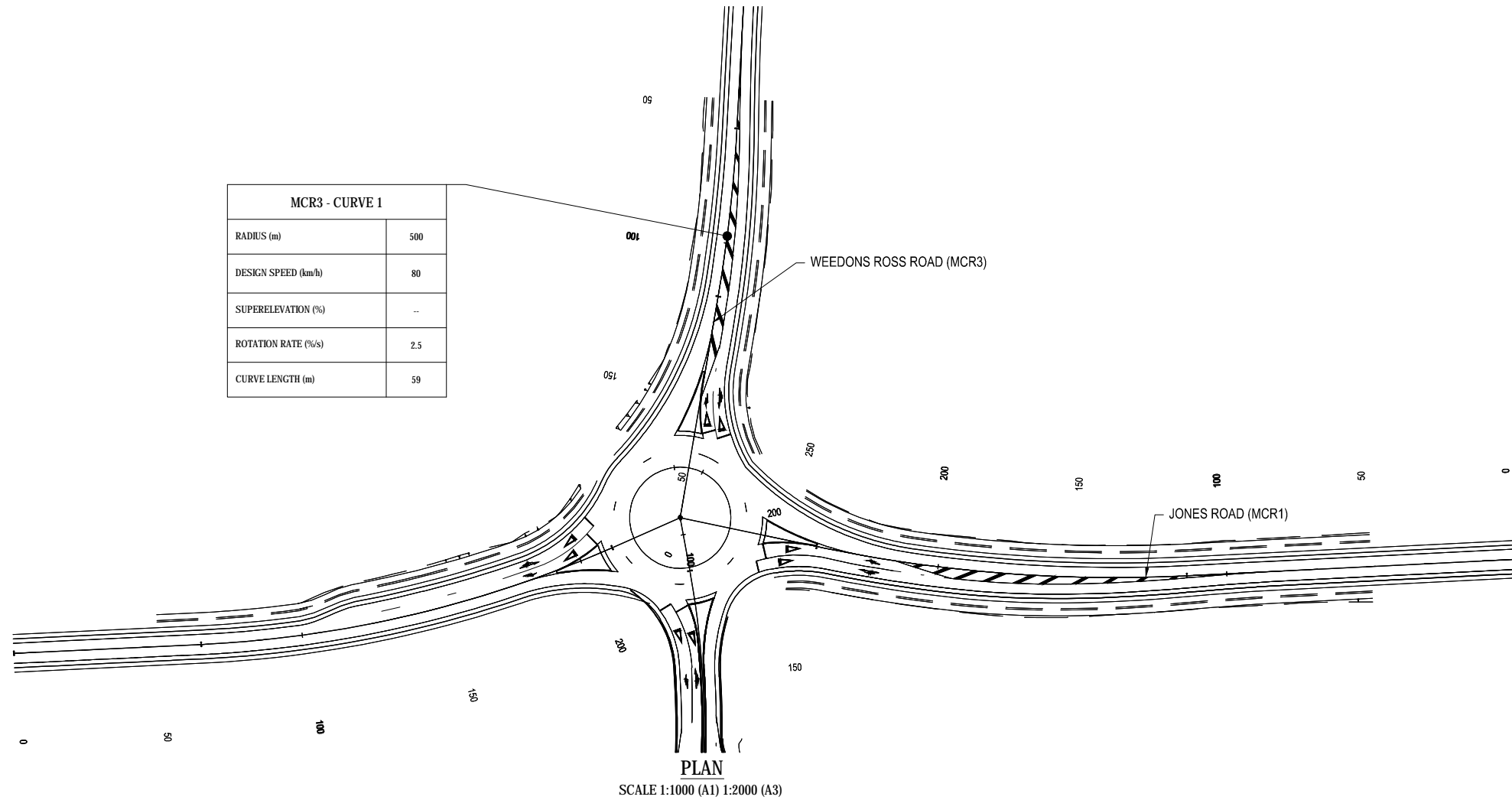
Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANE PLAN AND LONGITUDINAL SECTION - MCR2		

Drawing No: **62236-A-C132**

Rev: **0**



MCR3 - CURVE 1	
RADIUS (m)	500
DESIGN SPEED (km/h)	80
SUPERELEVATION (%)	--
ROTATION RATE (%/s)	2.5
CURVE LENGTH (m)	59



LONGITUDINAL SECTION ON CONTROL STRING MCR3
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



NZ TRANSPORT AGENCY
WAKA KOTAHI



DO NOT SCALE

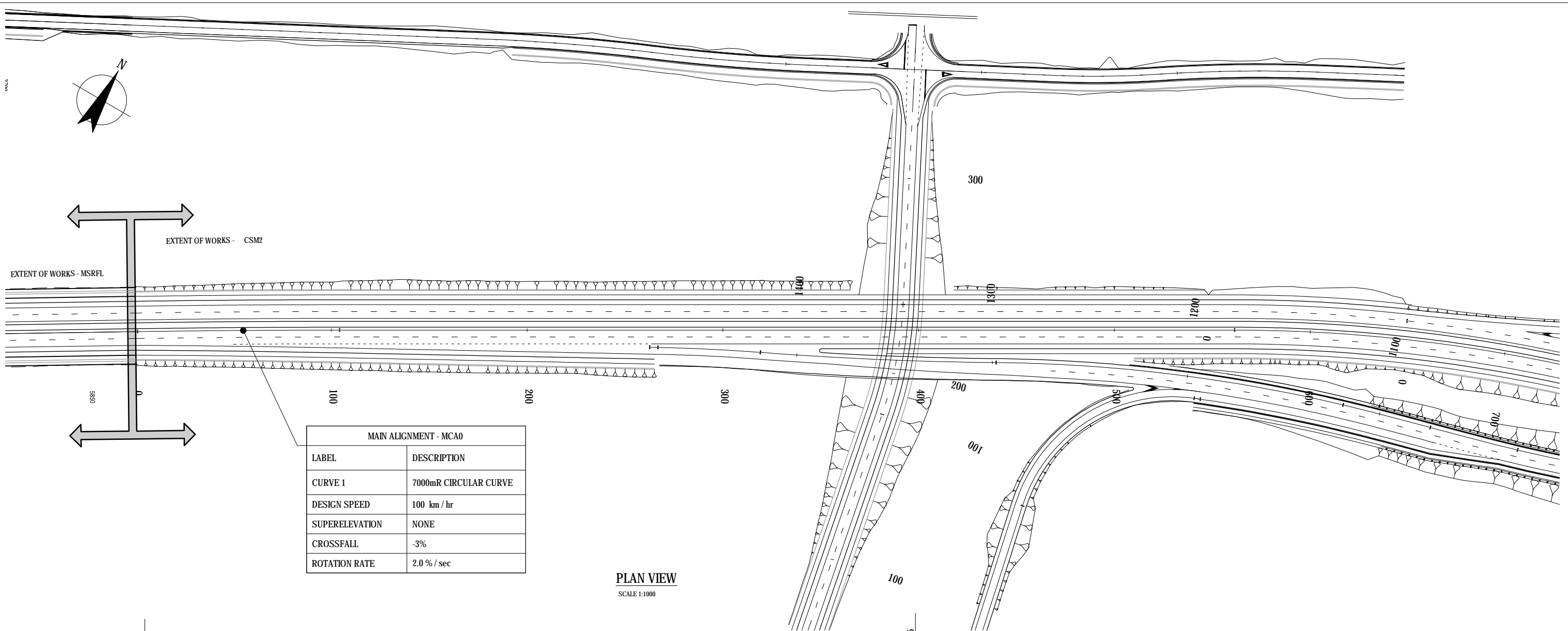
This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.

Drawn	AMW	Designed	KGA
Drafting Check	NJD	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	A3 HALF SIZE SHOWN		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350 3.92 RP365 2.11		
Title	MAIN SOUTH ROAD FOUR LANEING PLAN AND LONGITUDINAL SECTION - MCR3		

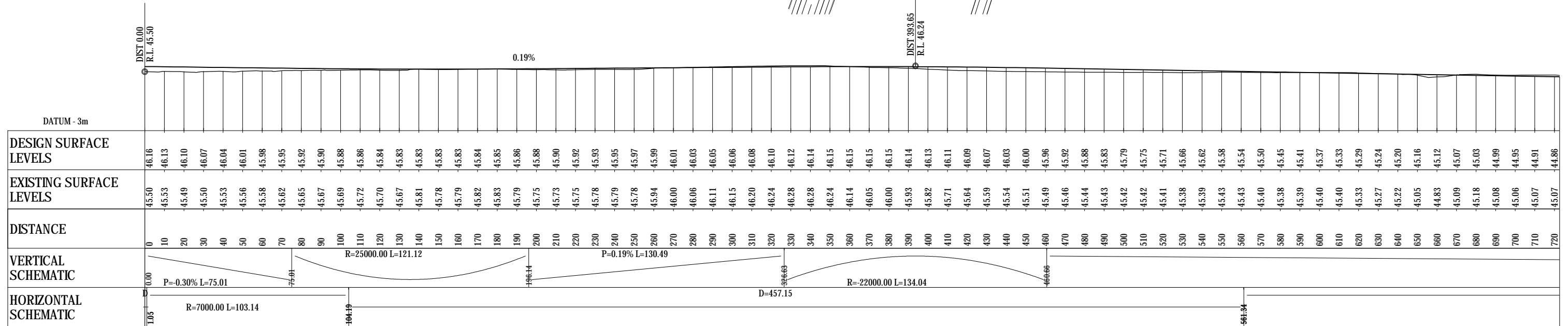
Drawing No: **62236-A-C133**

Rev: 0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 1	7000mR CIRCULAR CURVE
DESIGN SPEED	100 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.0 % / sec

PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

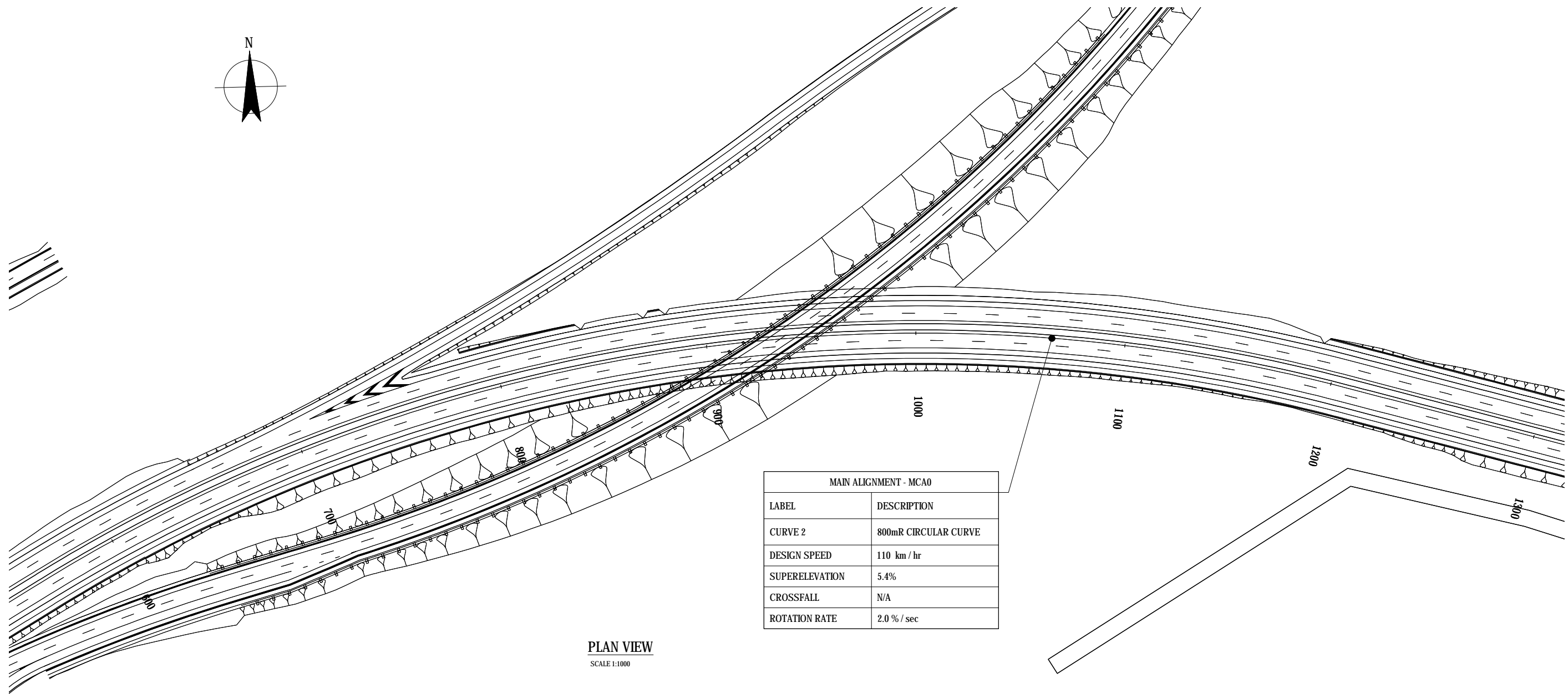
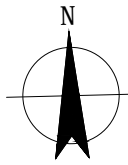
FOR CONSENT

No	Revision	Date	Drawn	Checked	Approved
0	FOR CONSENT	29.08.12	AF	DGA	GAP



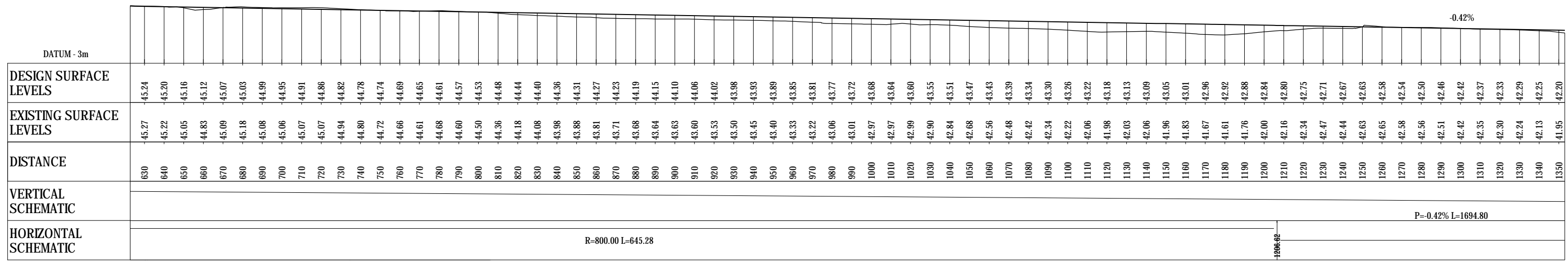
DO NOT SCALE <small>This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.</small>	Drawn BSE Designed JAS Drafting JAS Check DGA Approved GARY PAYNE Date 29.08.12 A1 Scale A3 Scale Half Scale Shown	Design Check DGA This Drawing must not be used for Construction unless signed as Approved
---	---	--

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 1 OF 12
Drawing No:	62236-B-C101
Rev:	0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 2	800mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	5.4%
CROSSFALL	N/A
ROTATION RATE	2.0 % / sec

PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

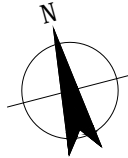
No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



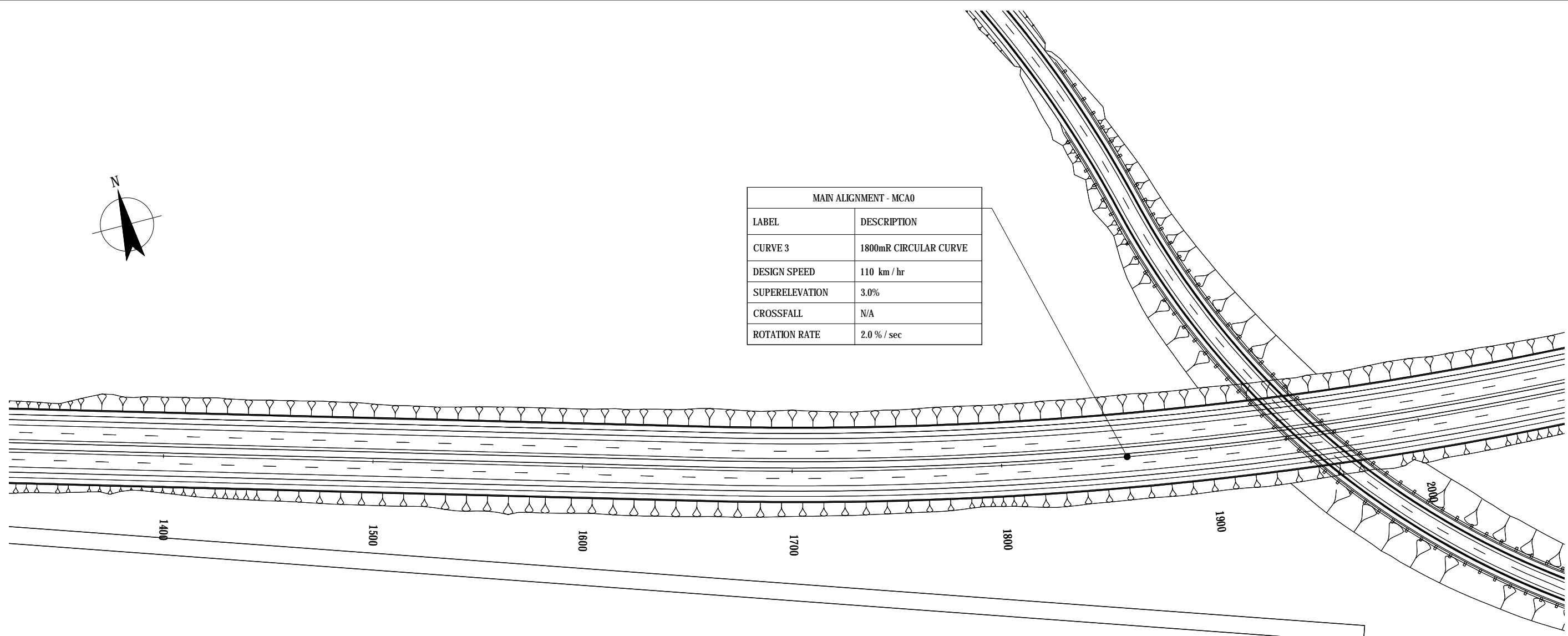
DO NOT SCALE
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Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 2 OF 12		
Drawing No:	62236-B-C102		Rev: 0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 3	1800mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	3.0%
CROSSFALL	N/A
ROTATION RATE	2.0 % / sec



PLAN VIEW
SCALE 1:1000

DATUM - 4m	
DESIGN SURFACE LEVELS	-42.25 -42.20 -42.16 -42.12 -42.08 -42.04 -41.99 -41.95 -41.91 -41.87 -41.82 -41.78 -41.74 -41.70 -41.66 -41.61 -41.57 -41.53 -41.49 -41.44 -41.40 -41.36 -41.32 -41.28 -41.23 -41.19 -41.15 -41.11 -41.07 -41.02 -40.98 -40.94 -40.90 -40.85 -40.81 -40.77 -40.73 -40.69 -40.64 -40.60 -40.56 -40.52 -40.47 -40.43 -40.39 -40.35 -40.31 -40.26 -40.22 -40.18 -40.14 -40.09 -40.05 -40.01 -39.97 -39.93 -39.88 -39.84 -39.80 -39.76 -39.71 -39.67 -39.63 -39.59 -39.55 -39.50 -39.46 -39.42 -39.38 -39.34 -39.29 -39.25 -39.21
EXISTING SURFACE LEVELS	42.13 41.95 41.69 42.34 41.61 41.85 42.02 42.17 42.22 42.27 42.16 42.12 42.06 42.05 42.04 42.01 42.00 41.99 41.93 41.83 41.89 41.89 41.94 41.93 41.87 41.83 41.89 41.66 41.64 41.77 41.86 41.86 41.84 41.83 41.81 41.75 41.71 41.69 41.65 41.57 41.48 41.32 41.11 40.97 40.95 41.08 41.04 41.00 41.08 41.07 41.02 41.01 41.02 41.04 41.01 40.90 40.80 40.72 40.69 40.73 40.70 40.62 40.52 40.21 40.36 39.64 -999.00 -999.00 -999.00 -999.00 -999.00 -999.00 -999.00 -999.00 -999.00 -999.00 -999.00 -999.00
DISTANCE	1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060
VERTICAL SCHEMATIC	
HORIZONTAL SCHEMATIC	D=449.43 -4666.05

LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

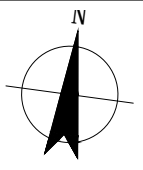
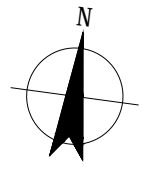
FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

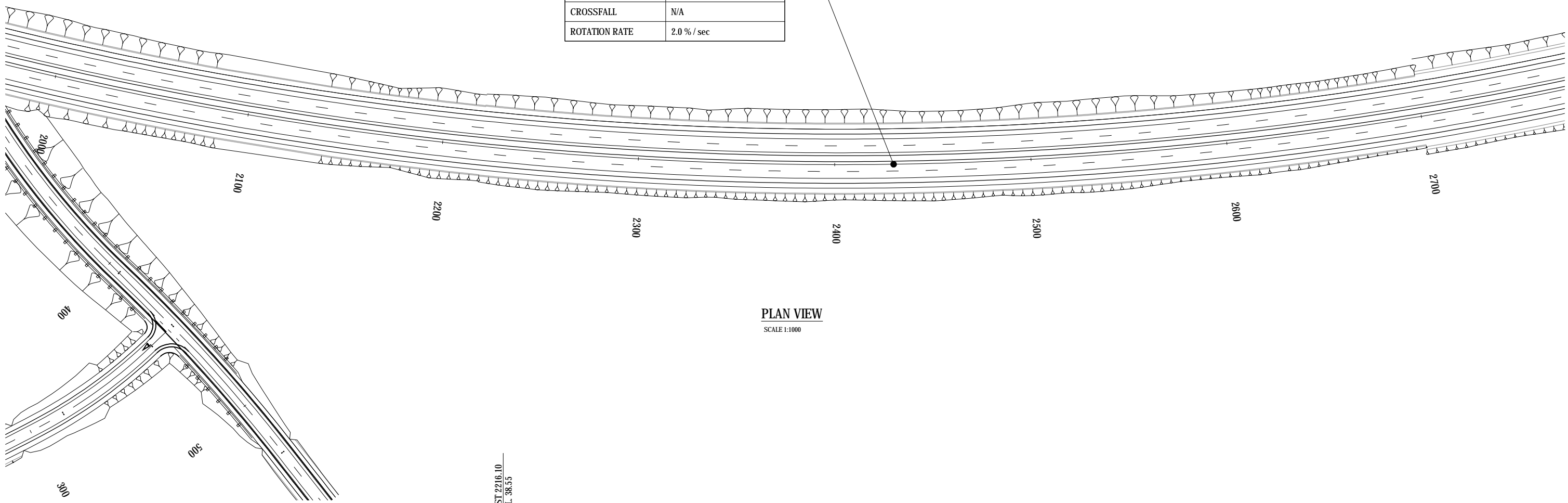


DO NOT SCALE	Drawn BSE	Designed JAS
<small>This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.</small>	Drafting JAS	Design Check DGA
	Approved GARY PAYNE	
	Date 29.08.12	
	A1 Scale	This Drawing must not be used for Construction unless signed as Approved
	A3 Scale Half Scale Shown	

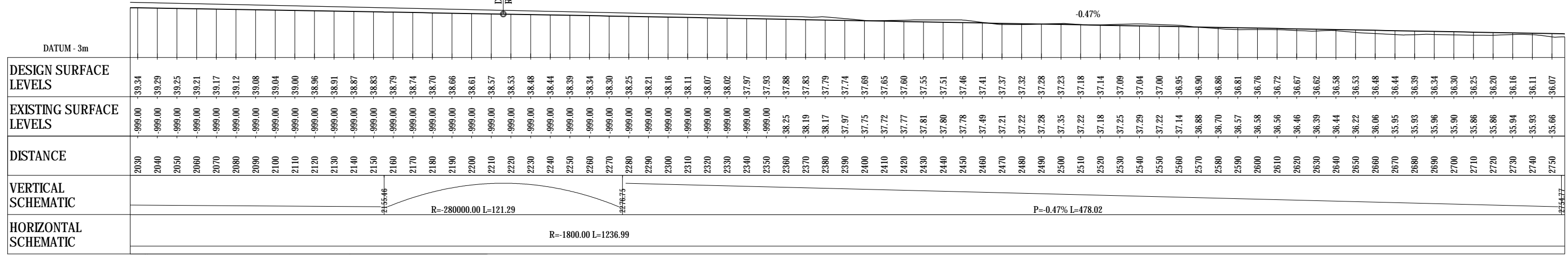
Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 3 OF 12
Drawing No:	62236-B-C103
Rev:	0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 3	1800mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	3.0%
CROSSFALL	N/A
ROTATION RATE	2.0 % / sec



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

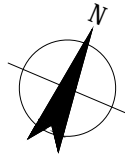
No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



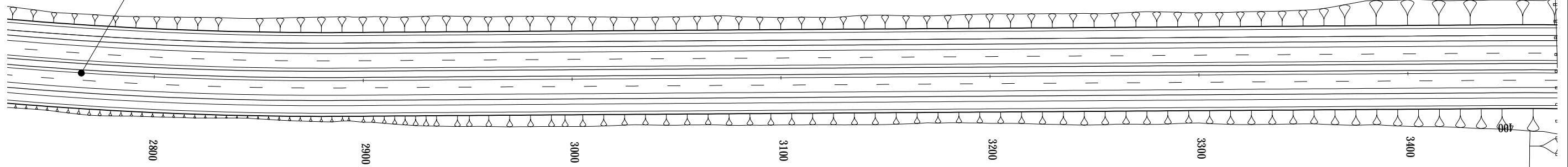
DO NOT SCALE
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Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

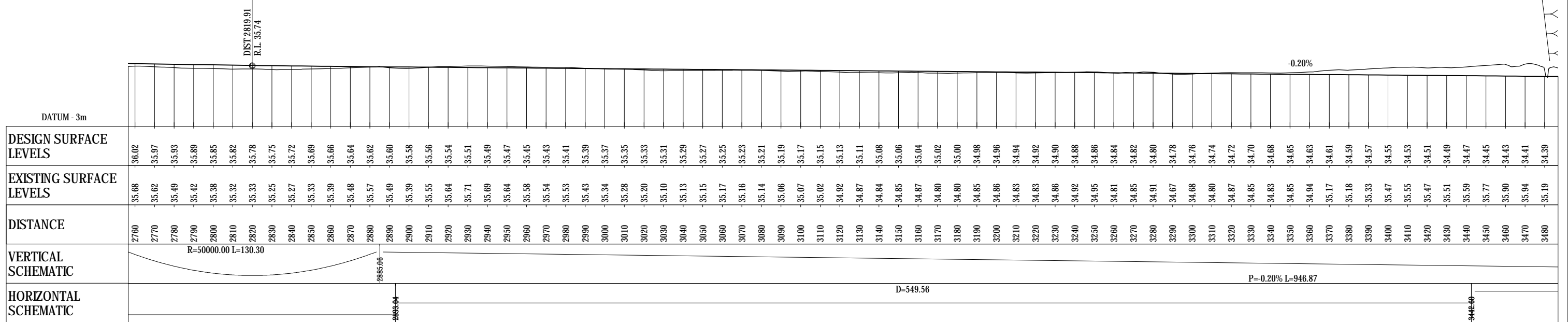
Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 4 OF 12		
Drawing No:	62236-B-C104		Rev: 0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 3	1800mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	3.0%
CROSSFALL	N/A
ROTATION RATE	2.0 % / sec



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12

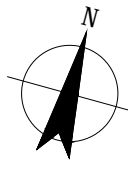


DO NOT SCALE

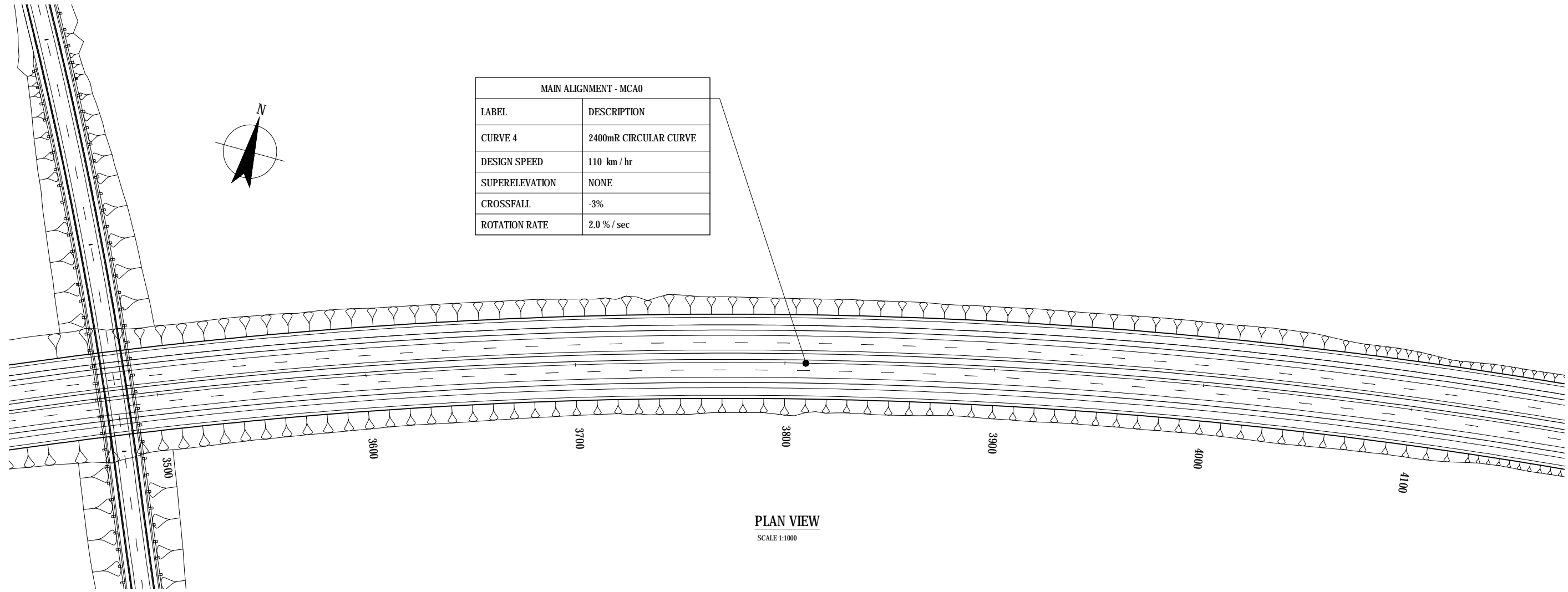
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Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	Half Scale Shown		
A3 Scale	This Drawing must not be used for Construction unless signed as Approved		

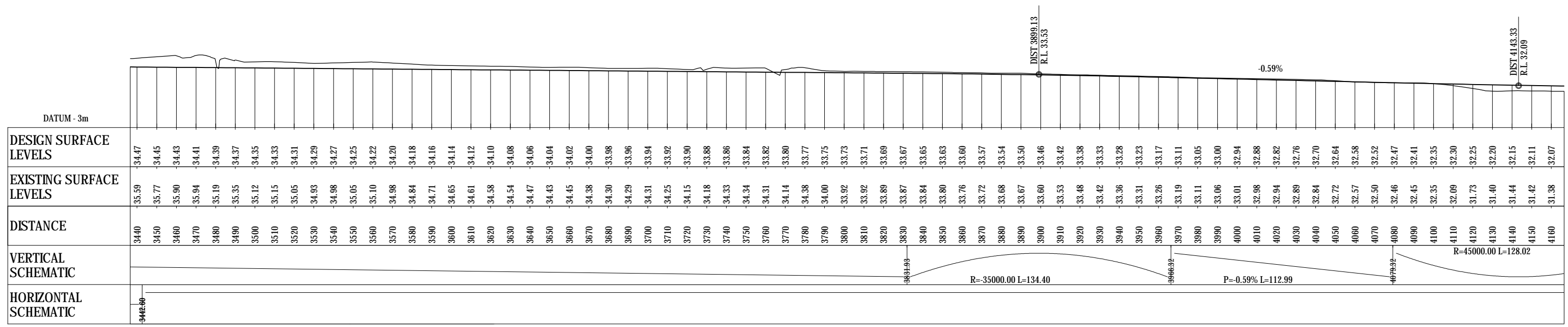
Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
	CHRISTCHURCH SOUTHERN MOTORWAY 2		
Title	PLAN & LONGITUDINAL SECTION SHEET 5 OF 12		
Drawing No:	62236-B-C105		Rev: 0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 4	2400mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.0 % / sec



PLAN VIEW
SCALE 1:1000



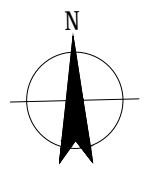
LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

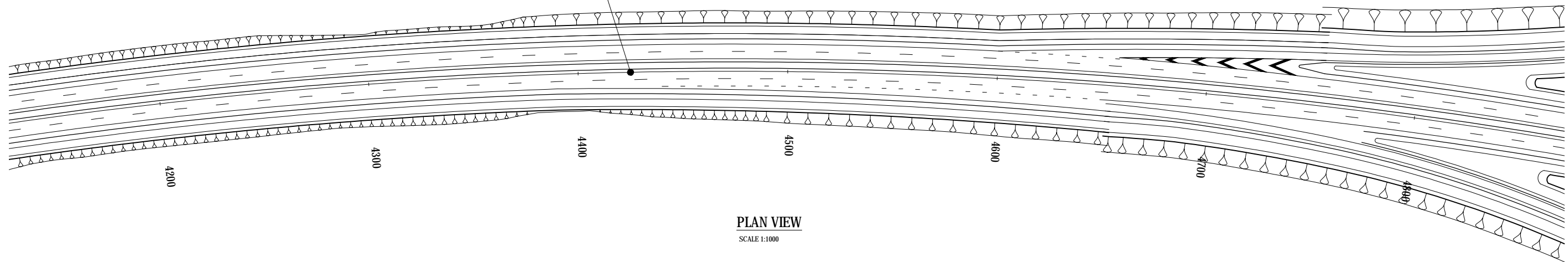
No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12

 NZ TRANSPORT AGENCY WAKA KOTAHI			DO NOT SCALE		Drawn BSE	Designed JAS
			<small>This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.</small>		Drafting JAS	Design Check DGA
			Approved GARY PAYNE		Date 29.08.12	
			A1 Scale		This Drawing must not be used for Construction unless signed as Approved	
			A3 Scale Half Scale Shown			

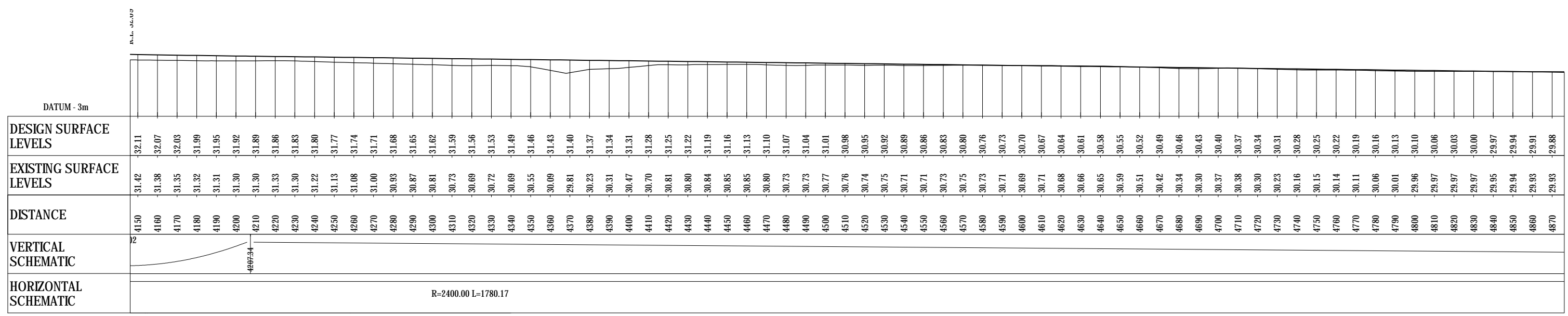
Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY 2 PLAN & LONGITUDINAL SECTION SHEET 6 OF 12
Drawing No:	62236-B-C106
Rev:	0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 4	2400mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.0 % / sec



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

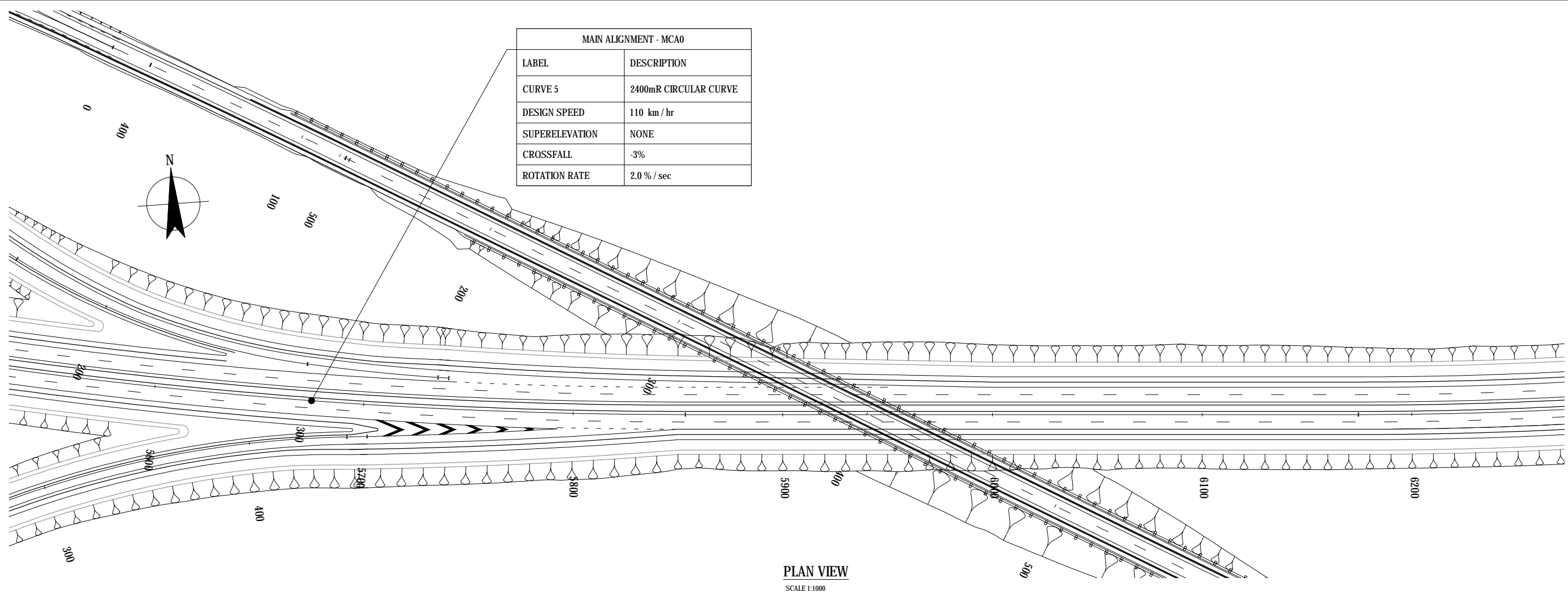
FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12

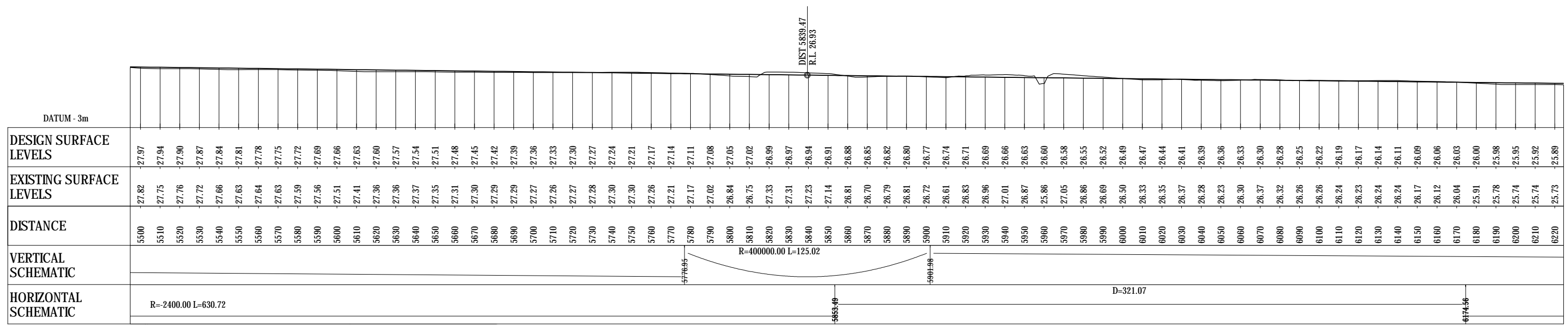


DO NOT SCALE	
Drawn	BSE
Designed	JAS
Drafting Check	JAS
Design Check	DGA
Approved	GARY PAYNE
Date	29.08.12
A1 Scale	
A3 Scale	Half Scale Shown

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY 2 PLAN & LONGITUDINAL SECTION SHEET 7 OF 12
Drawing No:	62236-B-C107
Rev:	0



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

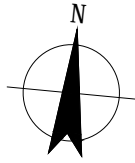
FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

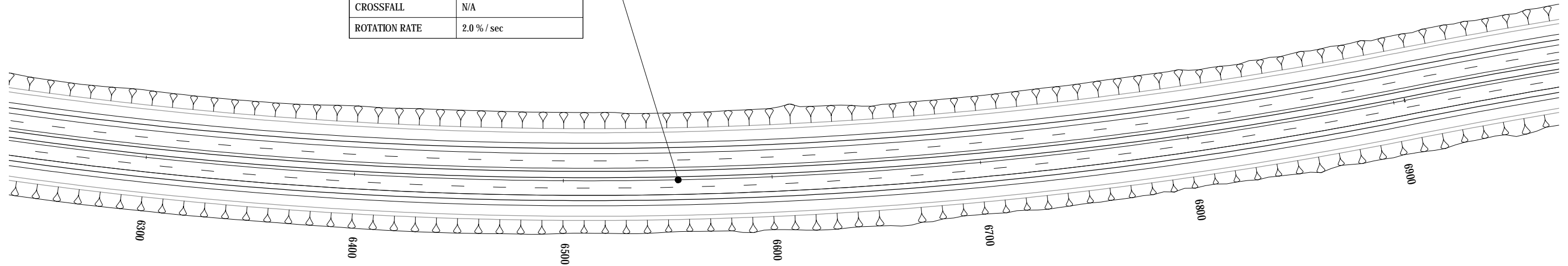


DO NOT SCALE	Drawn BSE	Designed JAS
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	Approved GARY PAYNE	
	Date 29.08.12	
	A1 Scale	This Drawing must not be used for Construction unless signed as Approved
	A3 Scale Half Scale Shown	

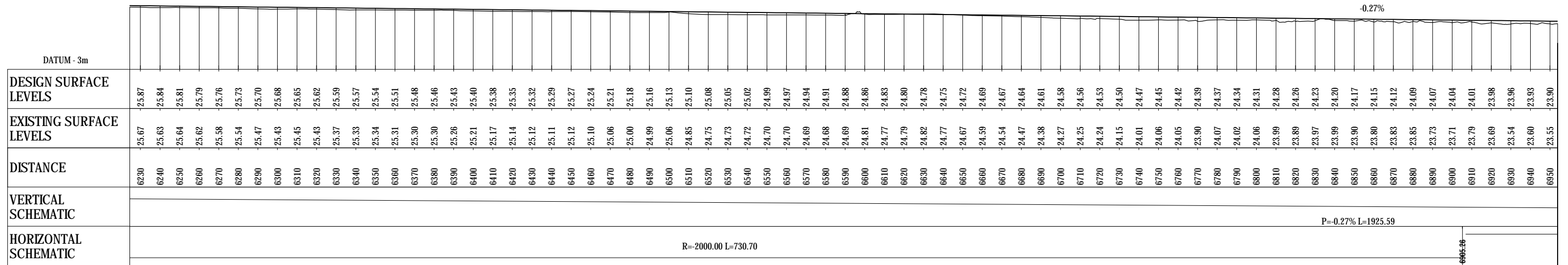
Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
	CHRISTCHURCH SOUTHERN MOTORWAY 2
Title	PLAN & LONGITUDINAL SECTION SHEET 9 OF 12
Drawing No:	62236-B-C109



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 6	2000mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	3%
CROSSFALL	N/A
ROTATION RATE	2.0 % / sec



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

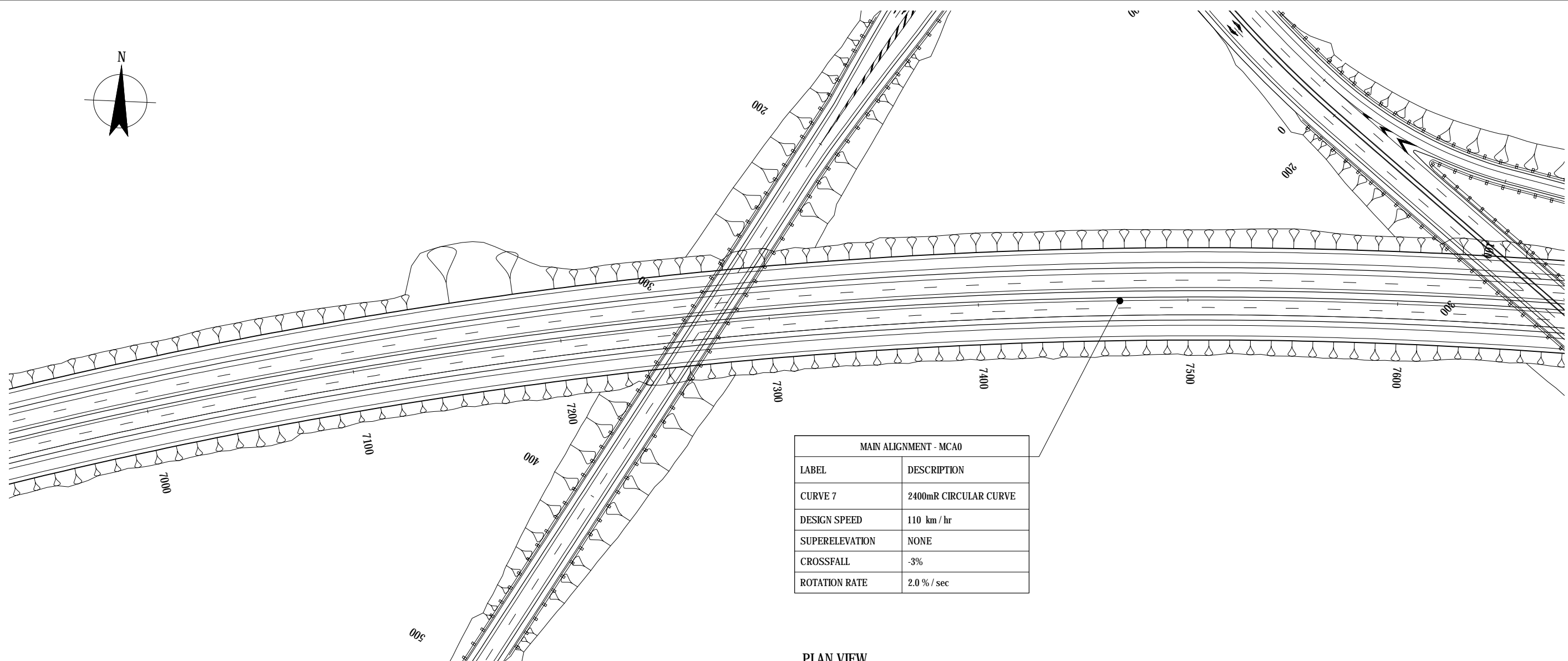
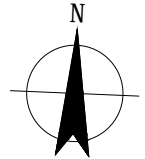
0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



DO NOT SCALE
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Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
	CHRISTCHURCH SOUTHERN MOTORWAY 2		
Title	PLAN & LONGITUDINAL SECTION SHEET 10 OF 12		
Drawing No:	62236-B-C110		Rev: 0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 7	2400mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.0 % / sec

PLAN VIEW
SCALE 1:1000

DATUM - 3m	
DESIGN SURFACE LEVELS	-23.90 -23.87 -23.85 -23.82 -23.79 -23.77 -23.74 -23.71 -23.68 -23.66 -23.63 -23.60 -23.57 -23.55 -23.52 -23.49 -23.46 -23.44 -23.41 -23.38 -23.36 -23.33 -23.30 -23.27 -23.25 -23.22 -23.19 -23.16 -23.14 -23.11 -23.08 -23.06 -23.03 -23.00 -22.97 -22.95 -22.92 -22.89 -22.86 -22.84 -22.81 -22.78 -22.76 -22.73 -22.70 -22.67 -22.65 -22.62 -22.59 -22.56 -22.54 -22.51 -22.48 -22.45 -22.43 -22.40 -22.37 -22.35 -22.32 -22.29 -22.26 -22.24 -22.21 -22.18 -22.15 -22.13 -22.10 -22.07 -22.05 -22.02 -21.99 -21.96 -21.94
EXISTING SURFACE LEVELS	23.55 23.53 24.04 23.73 23.86 23.63 23.49 23.37 23.36 22.97 23.17 23.26 23.35 23.37 23.29 23.15 23.07 23.00 23.19 22.90 23.05 22.94 22.81 23.19 23.91 23.41 22.66 22.73 22.86 23.03 22.78 22.82 22.91 22.72 22.70 22.75 22.77 22.77 22.59 22.60 22.54 22.63 22.83 22.71 22.79 22.75 22.56 22.85 22.62 22.66 22.49 22.55 22.54 22.40 22.48 22.43 22.32 22.31 22.30 22.24 22.27 22.04 21.96 21.90 21.76 21.65 21.71 21.77 21.80 21.08 21.77
DISTANCE	6950 6960 6970 6980 6990 7000 7010 7020 7030 7040 7050 7060 7070 7080 7090 7100 7110 7120 7130 7140 7150 7160 7170 7180 7190 7200 7210 7220 7230 7240 7250 7260 7270 7280 7290 7300 7310 7320 7330 7340 7350 7360 7370 7380 7390 7400 7410 7420 7430 7440 7450 7460 7470 7480 7490 7500 7510 7520 7530 7540 7550 7560 7570 7580 7590 7600 7610 7620 7630 7640 7650 7660 7670
VERTICAL SCHEMATIC	
HORIZONTAL SCHEMATIC	R=2400.00 L=1079.46

LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

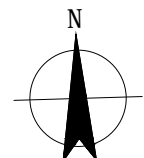
FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



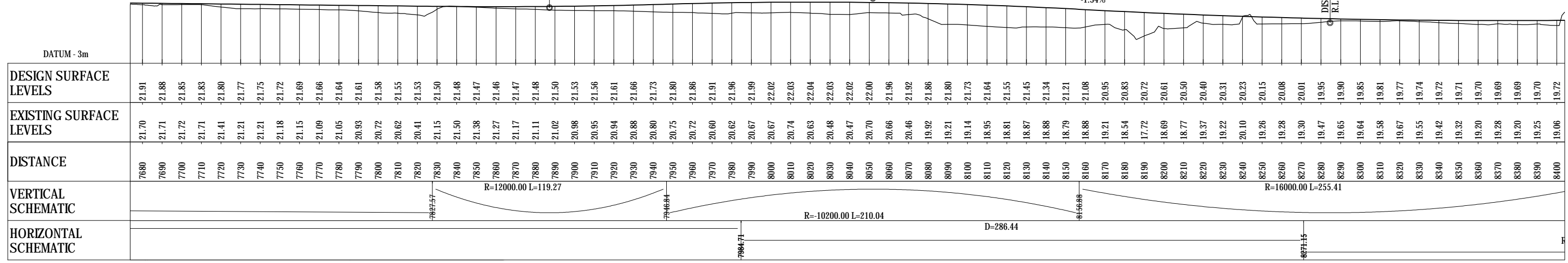
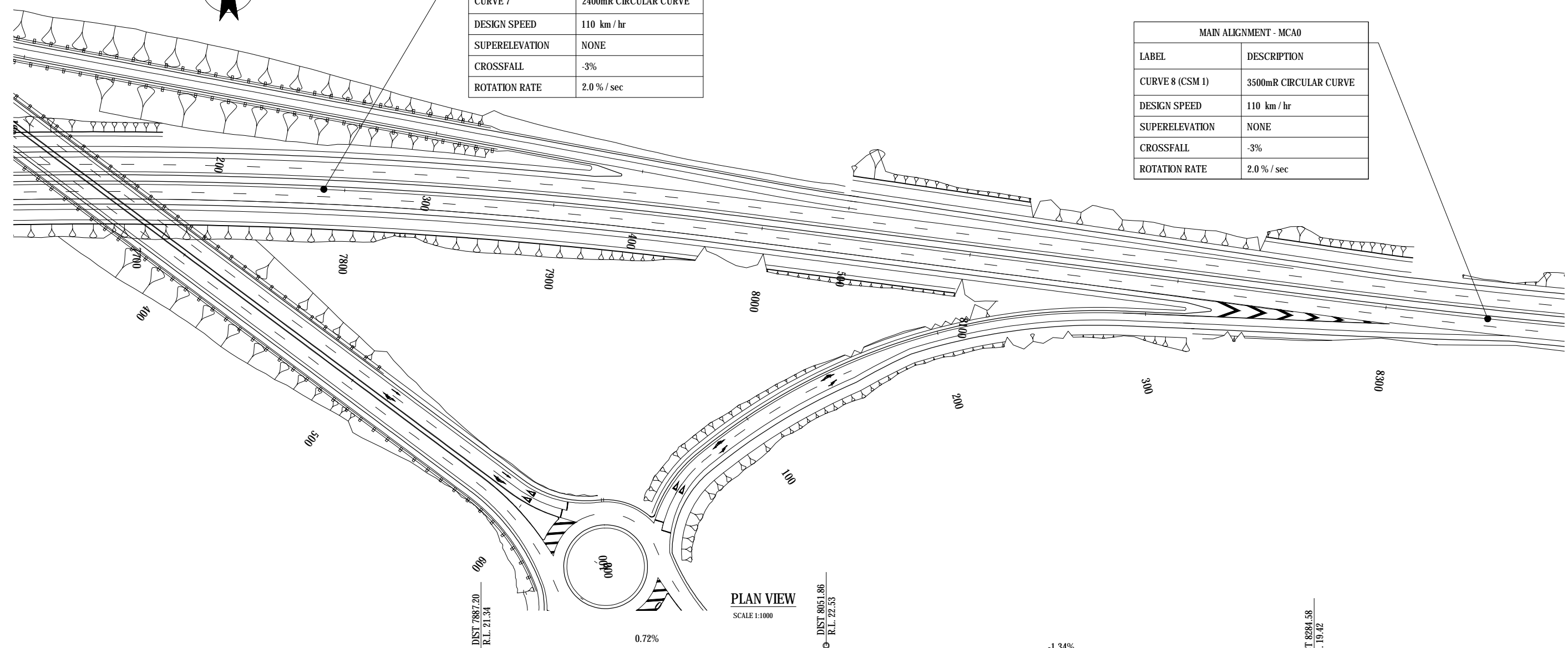
DO NOT SCALE <small>This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.</small>	Drawn BSE Designed JAS Drafting JAS Check DGA Approved GARY PAYNE Date 29.08.12 A1 Scale A3 Scale Half Scale Shown	Design Check DGA <small>This Drawing must not be used for Construction unless signed as Approved</small>
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Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY 2 PLAN & LONGITUDINAL SECTION SHEET 11 OF 12
Drawing No:	62236-B-C111
Rev:	0



MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 7	2400mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.0 % / sec

MAIN ALIGNMENT - MCA0	
LABEL	DESCRIPTION
CURVE 8 (CSM 1)	3500mR CIRCULAR CURVE
DESIGN SPEED	110 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.0 % / sec



LONGITUDINAL SECTION ON CONTROL STRING MCA0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



NZ TRANSPORT AGENCY
WAKA KOTAHI



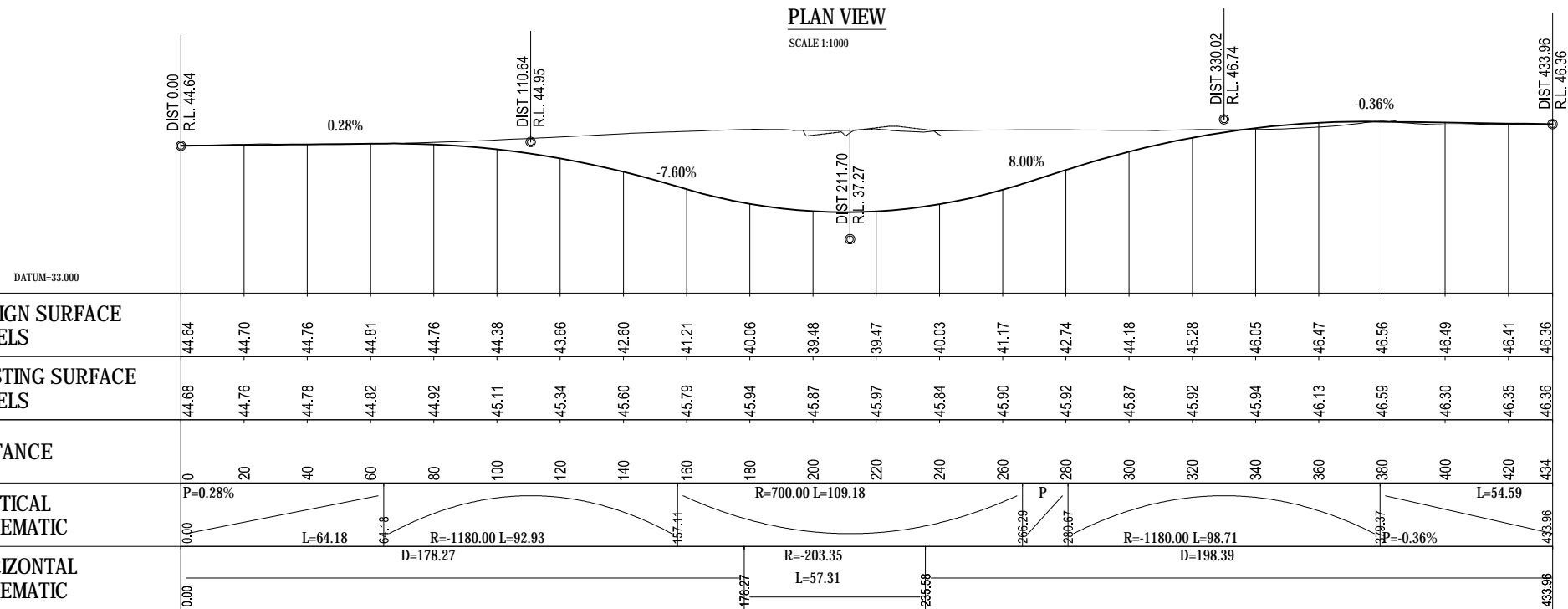
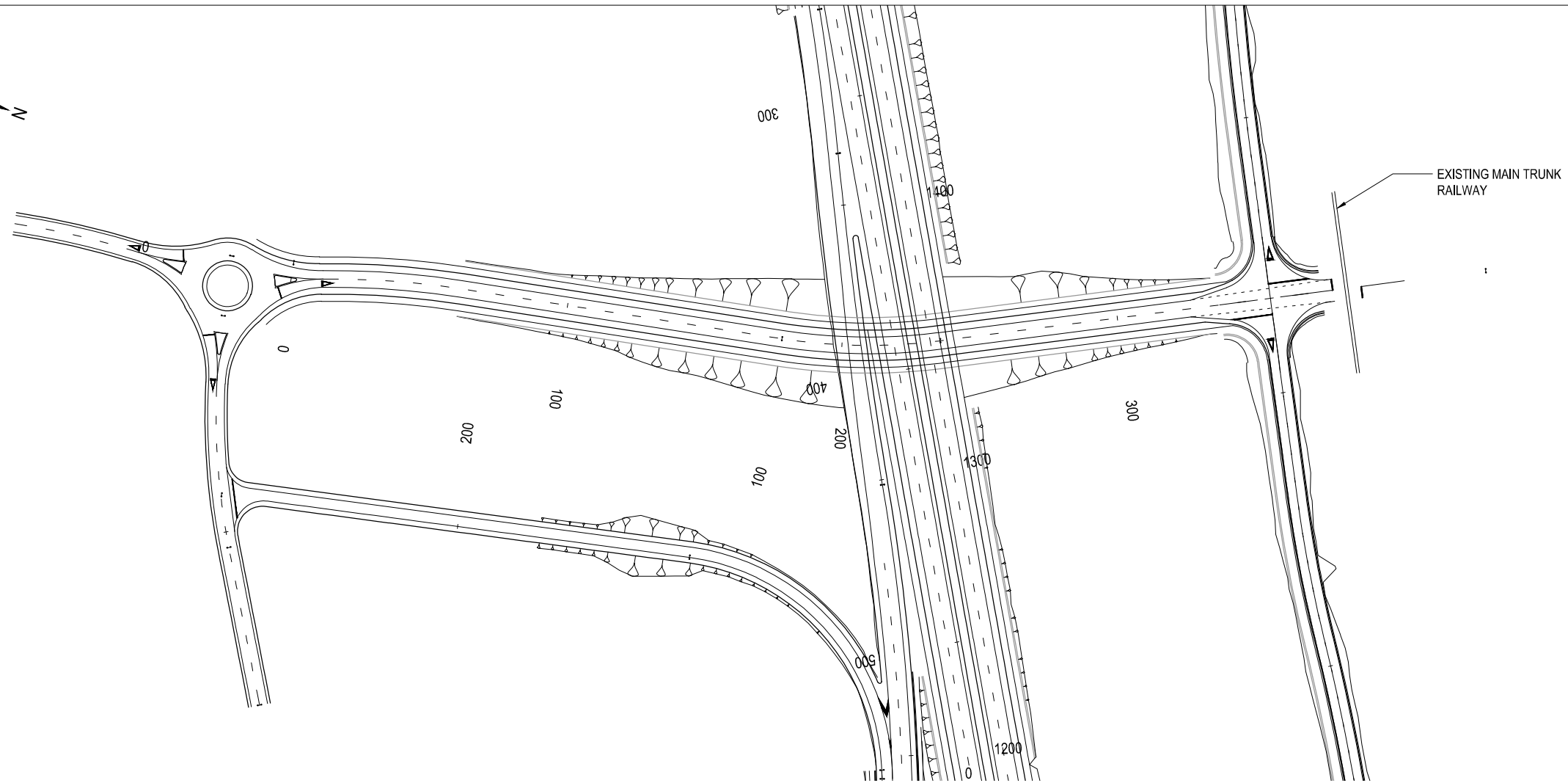
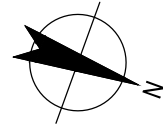


DO NOT SCALE

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Drawn BSE	Designed JAS
Drafting JAS	Design Check DGA
Approved GARY PAYNE	
Date 29.08.12	
A1 Scale	This Drawing must not be used for Construction unless signed as Approved
A3 Scale Half Scale Shown	

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
	CHRISTCHURCH SOUTHERN MOTORWAY 2		
Title	PLAN & LONGITUDINAL SECTION SHEET 12 OF 12		
Drawing No:	62236-B-C112		Rev: 0



LONGITUDINAL SECTION ON CONTROL STRING MCW0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



DO NOT SCALE

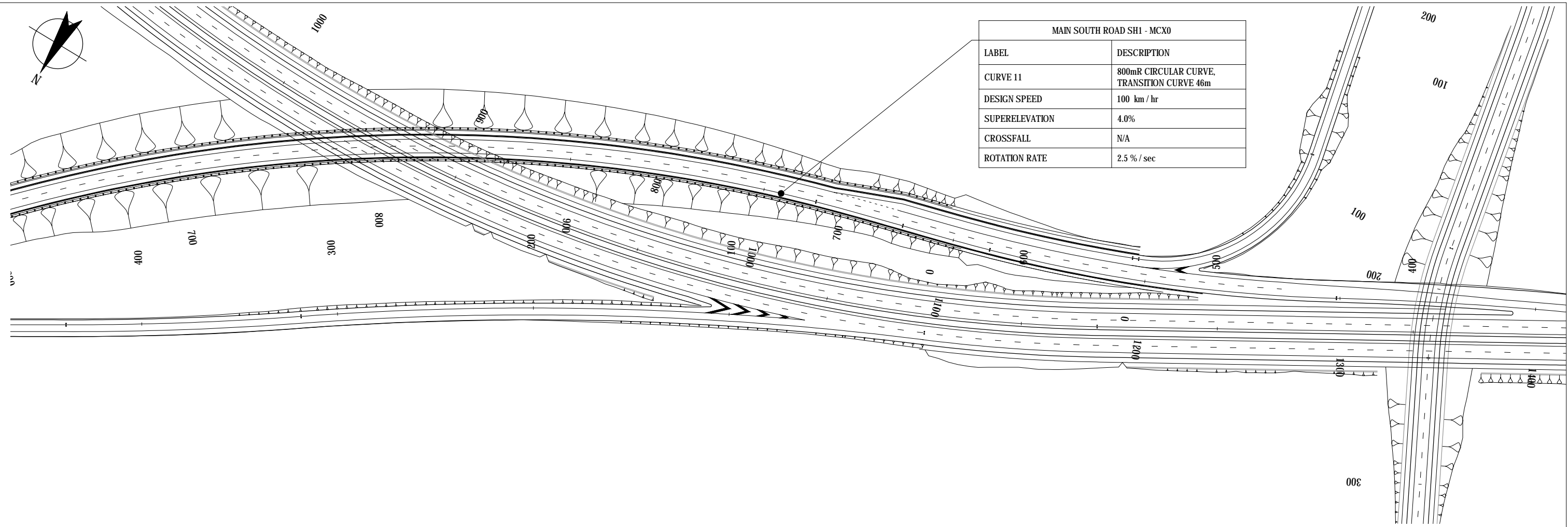
This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.

Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

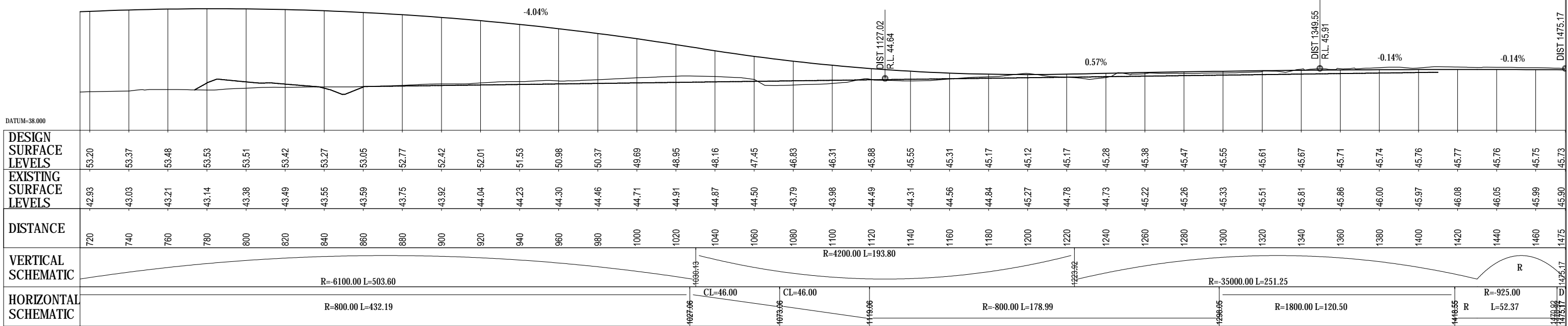
Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 1 OF 1		
Drawing No:	62236-B-C115		Rev: 0



MAIN SOUTH ROAD SH1 - MCX0	
LABEL	DESCRIPTION
CURVE 11	800mR CIRCULAR CURVE, TRANSITION CURVE 46m
DESIGN SPEED	100 km / hr
SUPERELEVATION	4.0%
CROSSFALL	N/A
ROTATION RATE	2.5 % / sec



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCX0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



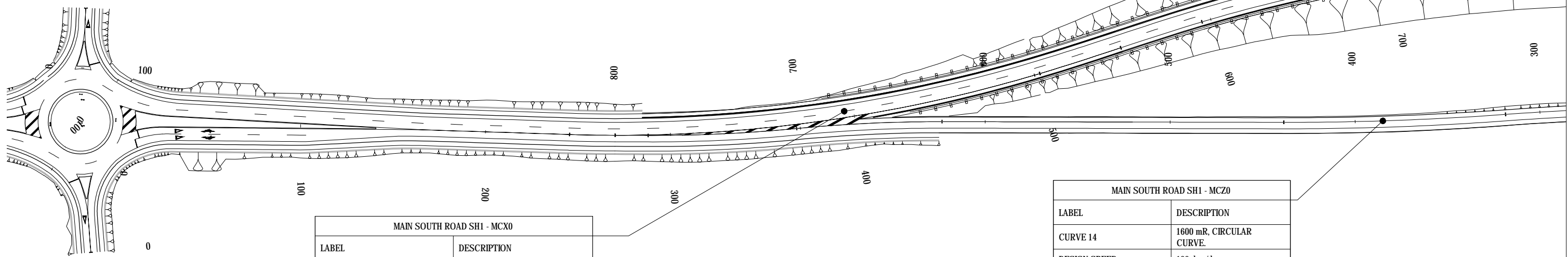
DO NOT SCALE
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Drawn	BSE	Designed	JAS
Drafting	JAS	Design	DGA
Check		Check	
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 1 OF 2		
Drawing No:	62236-B-C120	Rev:	0



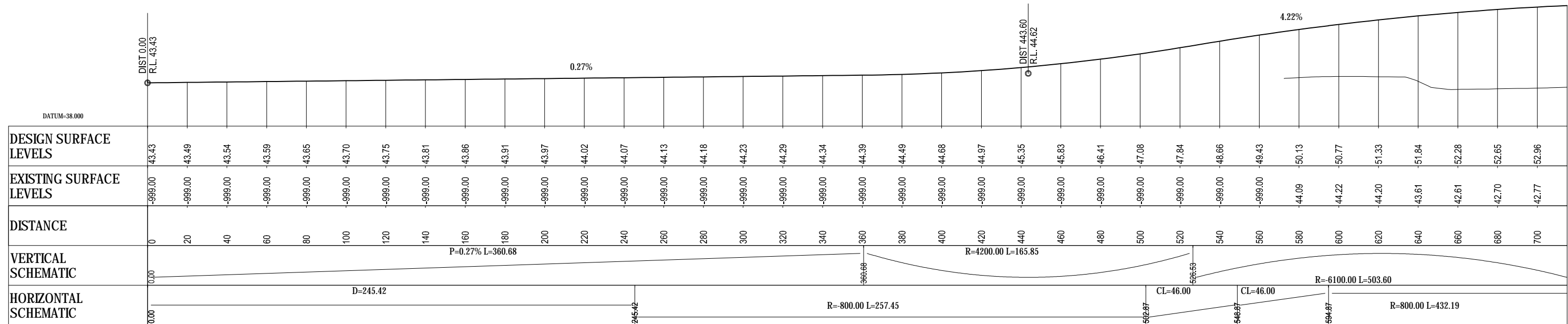
MAIN SOUTH ROAD SH1 - MCX0	
LABEL	DESCRIPTION
CURVE 11	800mR CIRCULAR CURVE, TRANSITION CURVE 46m
DESIGN SPEED	100 km / hr
SUPERELEVATION	4.0%
CROSSFALL	N/A
ROTATION RATE	2.5 % / sec



MAIN SOUTH ROAD SH1 - MCX0	
LABEL	DESCRIPTION
CURVE 12	800mR CIRCULAR CURVE ENTERING, TRANSITION CURVE ON EXIT 46m
DESIGN SPEED	100 km / hr
SUPERELEVATION	4.0%
CROSSFALL	N/A
ROTATION RATE	2.5 % / sec

PLAN VIEW
SCALE 1:1000

MAIN SOUTH ROAD SH1 - MCZ0	
LABEL	DESCRIPTION
CURVE 14	1600 mR, CIRCULAR CURVE.
DESIGN SPEED	100 km / hr
SUPERELEVATION	NONE
CROSSFALL	3%
ROTATION RATE	2.5 % / sec



LONGITUDINAL SECTION ON CONTROL STRING MCX0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12

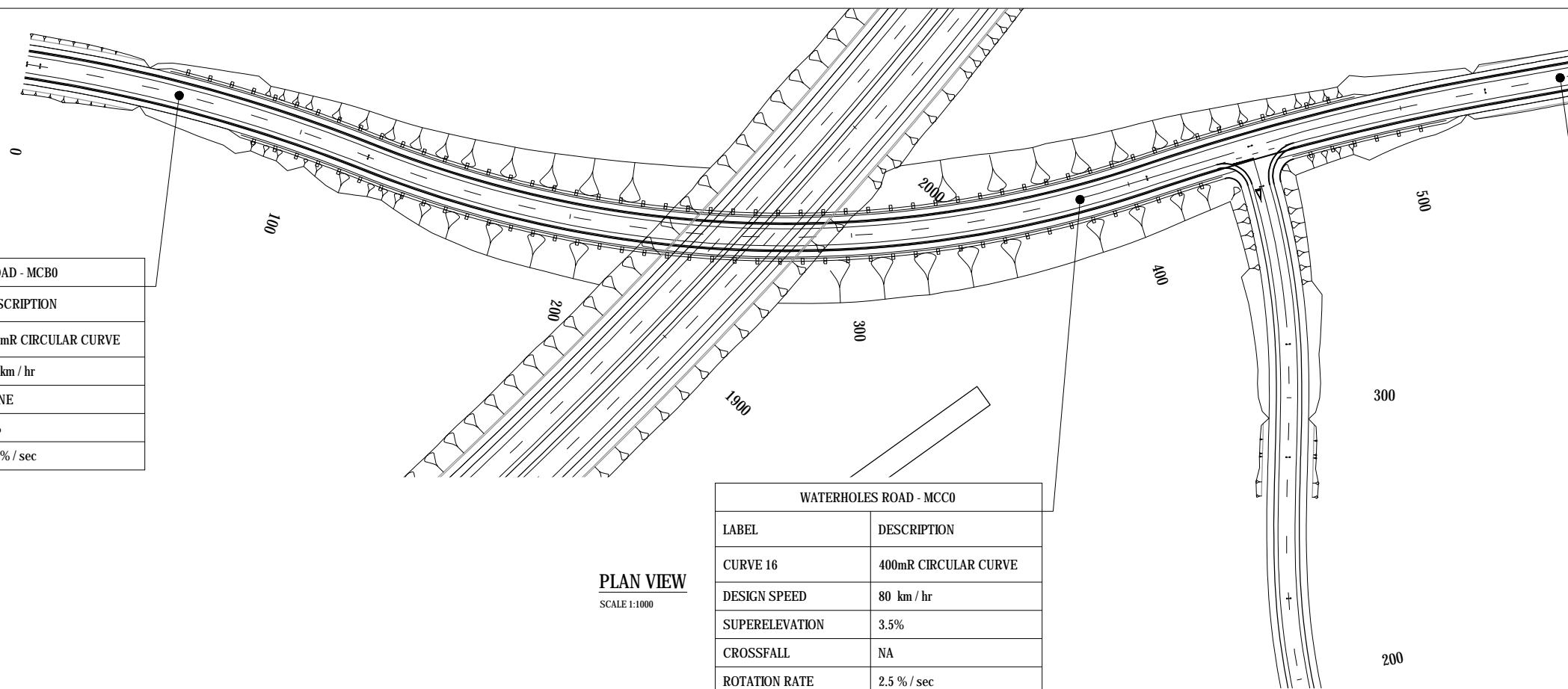
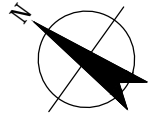
NZ TRANSPORT AGENCY
WAKA KOTAHI

DO NOT SCALE

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Drawn BSE	Designed JAS
Drafting JAS	Design Check DGA
Approved GARY PAYNE	
Date 29.08.12	
A1 Scale	This Drawing must not be used for Construction unless signed as Approved
A3 Scale Half Scale Shown	

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 2 OF 2
Drawing No:	62236-B-C121
Rev:	0



WATERHOLES ROAD - MCB0	
LABEL	DESCRIPTION
CURVE 15	550mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.5 % / sec

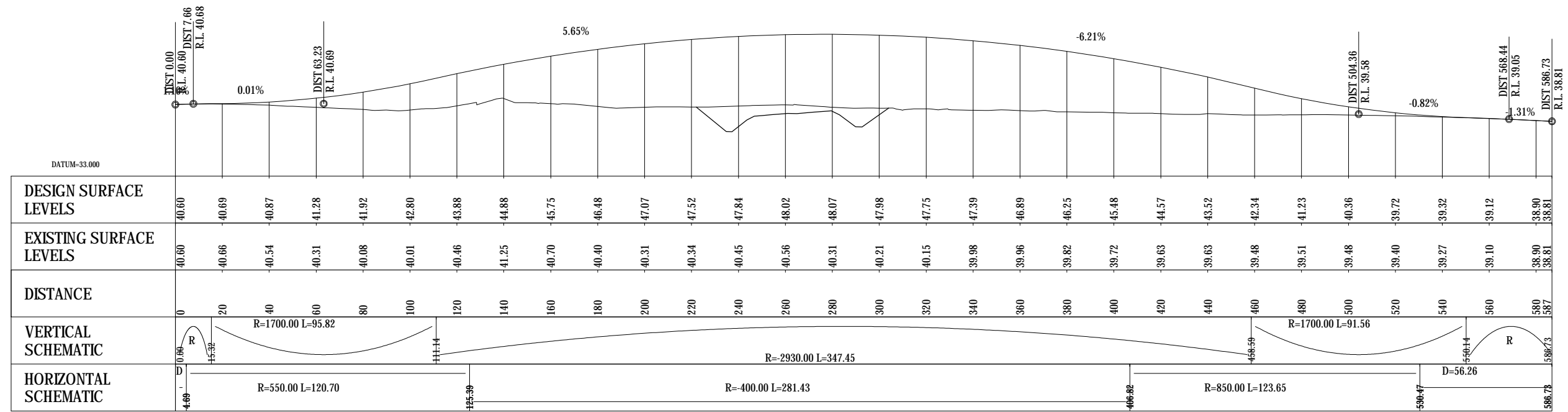
WATERHOLES ROAD - MCB0	
LABEL	DESCRIPTION
CURVE 17	850mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3%
ROTATION RATE	2.5 % / sec

WATERHOLES ROAD - MCC0	
LABEL	DESCRIPTION
CURVE 16	400mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	3.5%
CROSSFALL	NA
ROTATION RATE	2.5 % / sec

PLAN VIEW
SCALE 1:1000

DIST 284.86
R.L. 53.21

DATUM=33.000



LONGITUDINAL SECTION ON CONTROL STRING MCB0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			Date
Drawn	Checked	Approved			

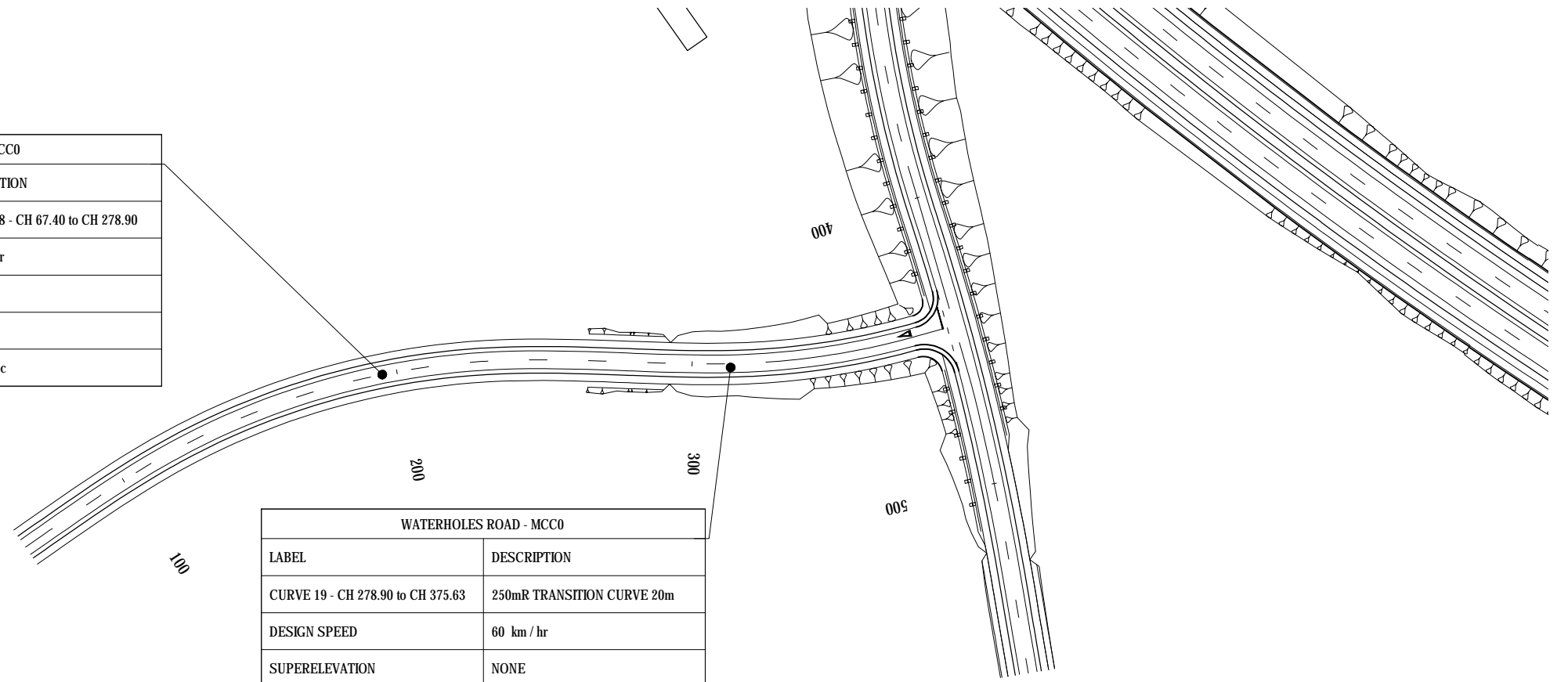


DO NOT SCALE	Drawn BSE	Designed JAS
This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.	Drafting JAS	Design Check DGA
	Approved GARY PAYNE	
	Date 29.08.12	
	A1 Scale	This Drawing must not be used for Construction unless signed as Approved
	A3 Scale Half Scale Shown	

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 1 OF 2
Drawing No:	62236-B-C125
Rev:	0

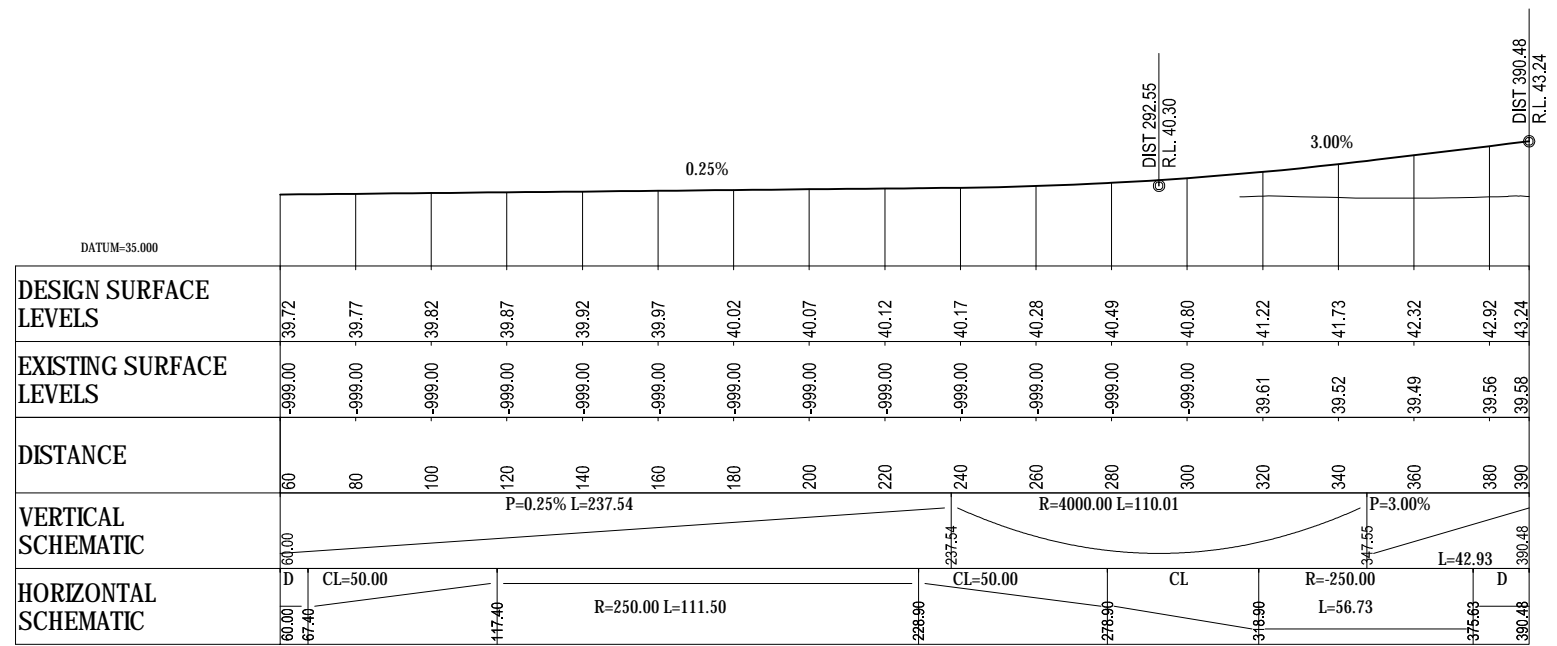


WATERHOLES ROAD - MCC0	
LABEL	DESCRIPTION
CURVE 18 - CH 67.40 to CH 278.90	CURVE 18 - CH 67.40 to CH 278.90
DESIGN SPEED	80 km / hr
SUPERELEVATION	5.6%
CROSSFALL	N/A
ROTATION RATE	2.5 % / sec



WATERHOLES ROAD - MCC0	
LABEL	DESCRIPTION
CURVE 19 - CH 278.90 to CH 375.63	250mR TRANSITION CURVE 20m
DESIGN SPEED	60 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3.0%
ROTATION RATE	2.5 % / sec

PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCC0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12

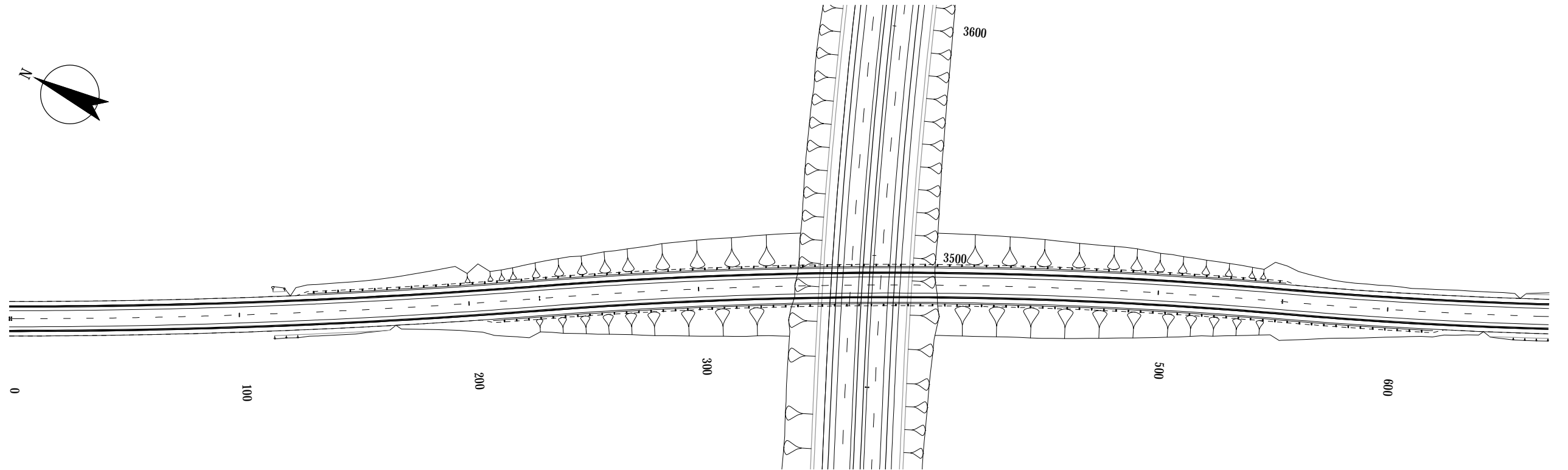
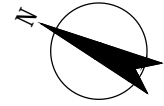


DO NOT SCALE

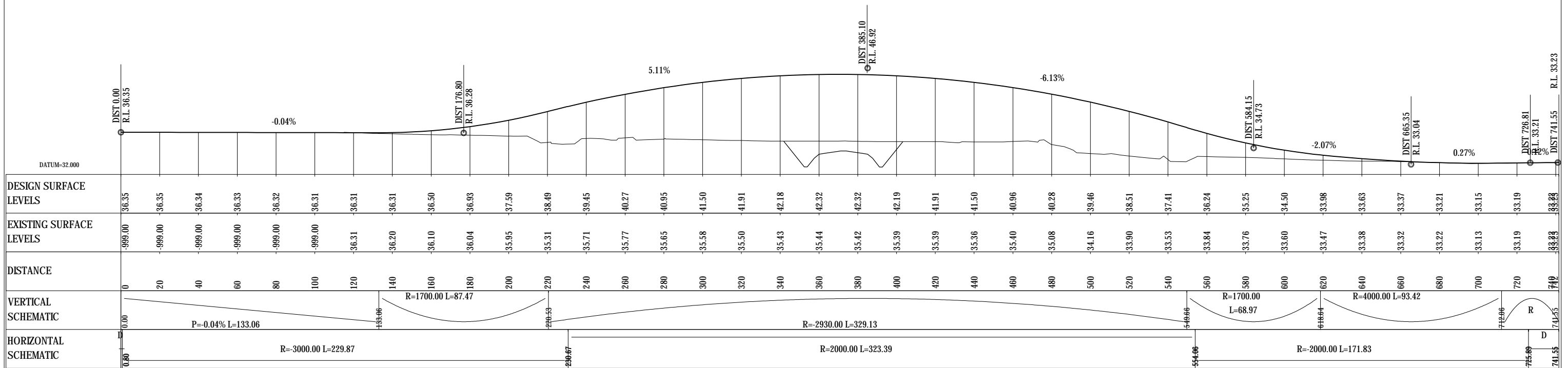
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Drawn	BSE	Designed	JAS
Drafting	JAS	Design	DGA
Check		Check	
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 2 OF 2		
Drawing No:	62236-B-C126		Rev: 0



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCDDO
SCALE HORIZ=1:1000 VERT=1:200

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
1	FOR HEARING		JAL	DGA	GAP	03.07.13
0	FOR CONSENT		AF	DGA	GAP	29.08.12

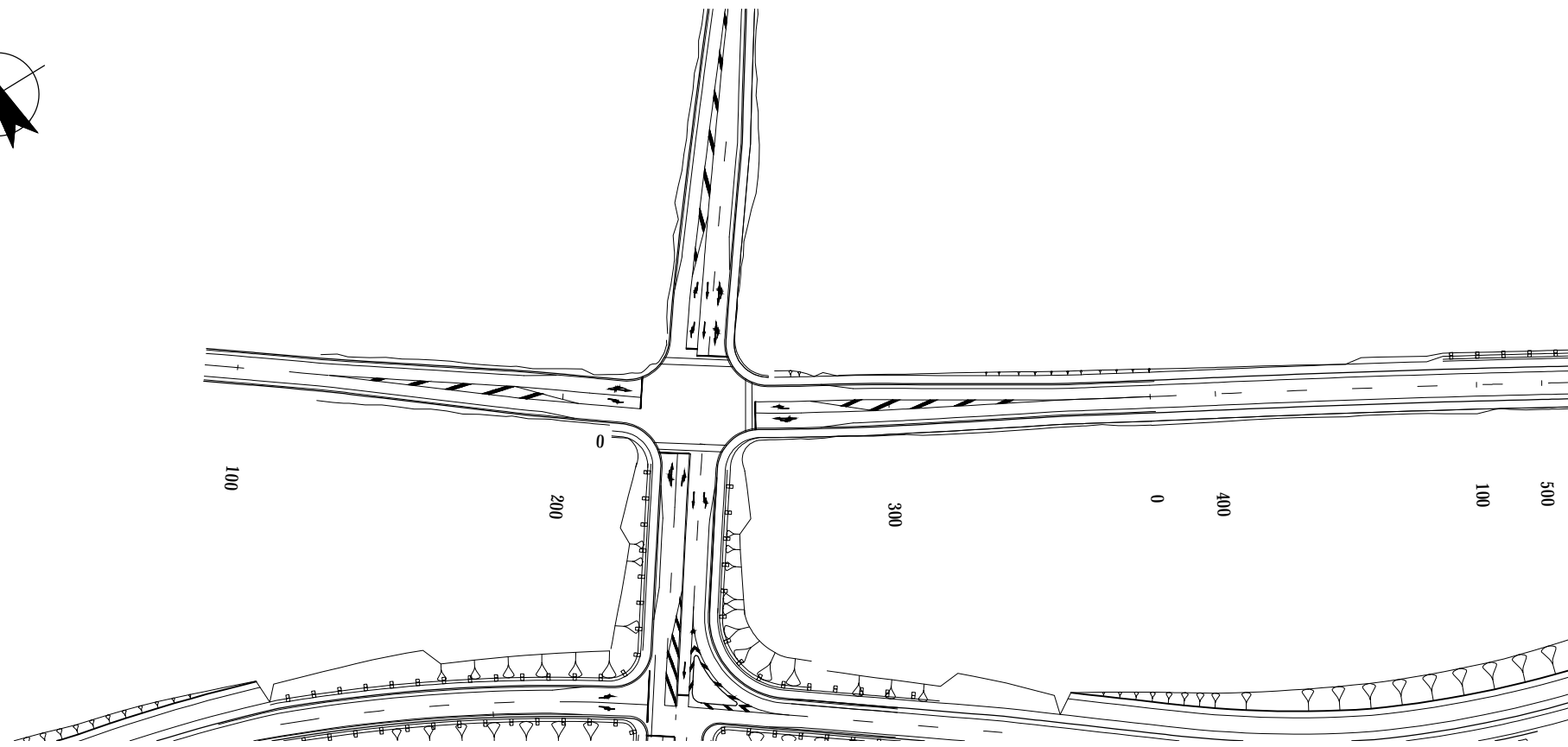
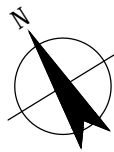


DO NOT SCALE

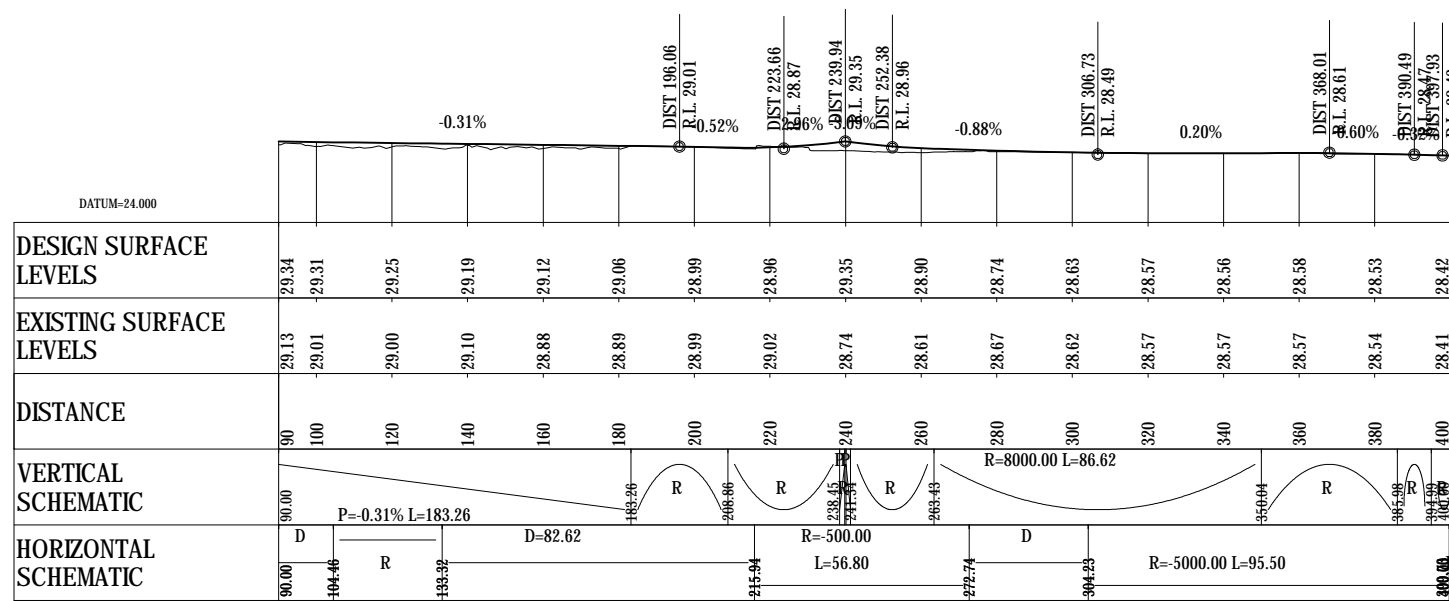
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Drawn	BSE	Designed	JAS
Drafting	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 1 OF 1		
Drawing No:	62236-B-C130		Rev: 1



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCN0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



NZ TRANSPORT AGENCY
WAKA KOTAHI

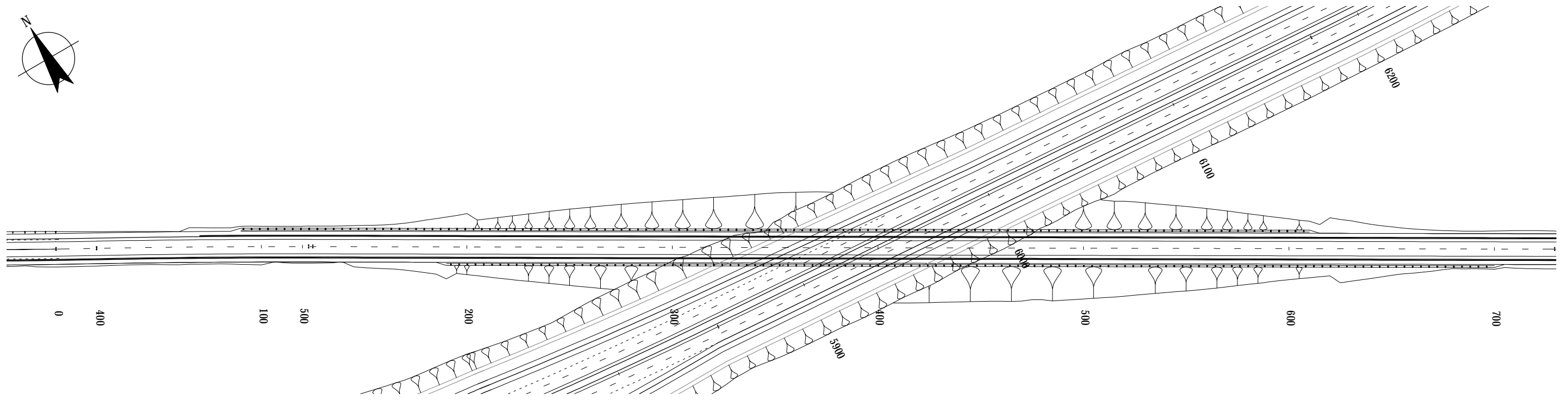
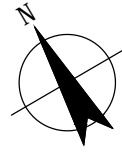


DO NOT SCALE

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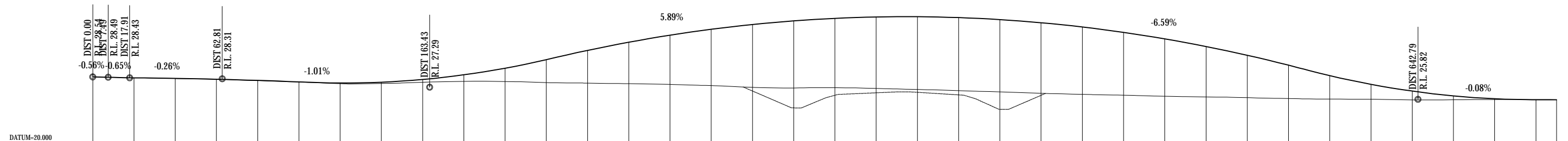
Drawn	BSE	Designed	JAS
Drafting	JAS	Design	DGA
Check		Check	
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 1 OF 2		
Drawing No:	62236-B-C135		Rev: 0



PLAN VIEW - MARSHS ROAD UNDERPASS

SCALE 1:1000



	0	20	40	60	80	100	120	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	710
DESIGN SURFACE LEVELS	28.54	28.42	28.35	28.25	28.11	27.93	27.80	27.89	28.22	28.78	29.58	30.62	31.74	32.73	33.58	34.29	34.87	35.31	35.61	35.78	35.81	35.71	35.46	35.09	34.57	33.92	33.13	32.21	31.15	29.95	28.09	27.63	26.82	26.23	25.89	25.77	25.76
EXISTING SURFACE LEVELS	28.54	28.41	28.34	28.24	28.08	27.92	27.71	27.74	27.88	27.99	27.97	27.84	27.78	27.71	27.62	27.48	27.27	27.19	27.22	27.14	27.02	26.87	26.72	26.55	26.42	26.32	26.19	26.11	26.02	25.91	25.85	25.83	25.75	25.76	25.80	25.79	25.78
DISTANCE	0	20	40	60	80	100	120	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	710
VERTICAL SCHEMATIC	R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		R=2930.00 L=365.43 D=606.31		R=1700.00 L=110.53		R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		R=2930.00 L=365.43 D=606.31		R=1700.00 L=110.53		R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		R=2930.00 L=365.43 D=606.31		R=1700.00 L=110.53		R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		
HORIZONTAL SCHEMATIC	R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		R=2930.00 L=365.43 D=606.31		R=1700.00 L=110.53		R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		R=2930.00 L=365.43 D=606.31		R=1700.00 L=110.53		R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		R=2930.00 L=365.43 D=606.31		R=1700.00 L=110.53		R=11137.63 L=83.94		R=5000.00 L=103.25		R=1700.00 L=117.31		

LONGITUDINAL SECTION ON CONTROL STRING MCO0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



NZ TRANSPORT AGENCY
WAKA KOTAHI





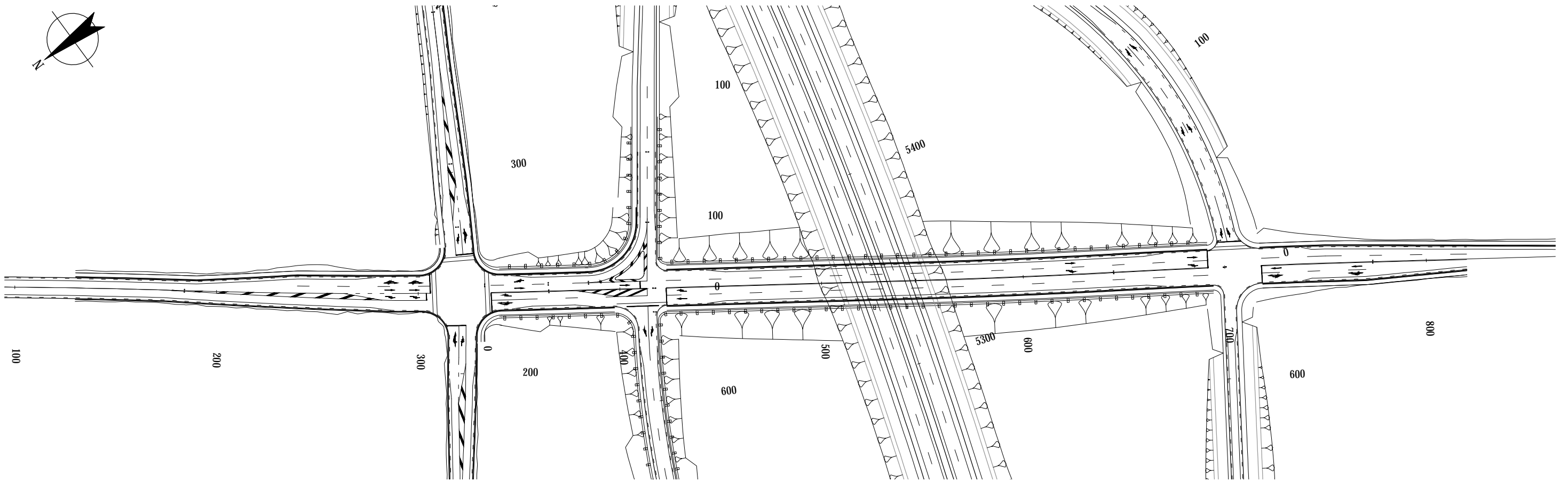
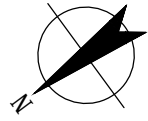
DO NOT SCALE

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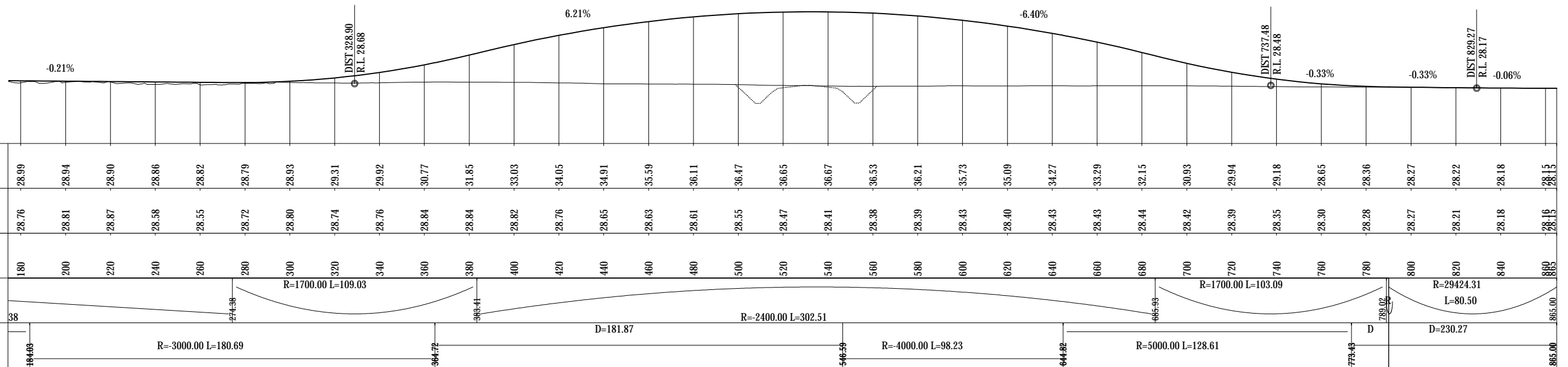
This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.

Drawn	BSE	Designed	JAS
Drafting	JAS	Design	DGA
Check		Check	
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION SHEET 2 OF 2
Drawing No:	62236-B-C136
Rev:	0



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCE0
SCALE HORIZ=1:1000 VERT=1:250

DESIGN SURFACE LEVELS	EXISTING SURFACE LEVELS	DISTANCE	VERTICAL SCHEMATIC	HORIZONTAL SCHEMATIC
-28.99	-28.76	180	38	164.03
-28.94	-28.81	200		
-28.90	-28.87	220	274.38	R=3000.00 L=180.69
-28.86	-28.85	240		
-28.82	-28.82	260	R=1700.00 L=109.03	364.77
-28.79	-28.72	280		
-28.93	-28.80	300	388.41	D=181.87
-29.31	-28.74	320		
-29.92	-28.76	340	R=2400.00 L=302.51	546.59
-30.77	-28.84	360		
-31.85	-28.84	380	665.93	R=4000.00 L=98.23
-33.03	-28.82	400		
-34.05	-28.76	420	R=1700.00 L=103.09	773.49
-34.91	-28.65	440		
-35.59	-28.63	460	R=29424.31 L=80.50	865.00
-36.11	-28.61	480		
-36.47	-28.55	500	D	D=230.27
-36.65	-28.47	520		
-36.67	-28.41	540	865.00	865.00
-36.53	-28.38	560		
-36.21	-28.39	580		
-35.73	-28.43	600		
-35.09	-28.40	620		
-34.27	-28.43	640		
-33.29	-28.43	660		
-32.15	-28.44	680		
-30.93	-28.42	700		
-29.94	-28.39	720		
-29.18	-28.35	740		
-28.65	-28.30	760		
-28.36	-28.28	780		
-28.27	-28.27	800		
-28.22	-28.21	820		
-28.18	-28.18	840		
-28.15	-28.15	860		
-28.15	-28.15	865		

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

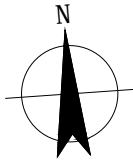


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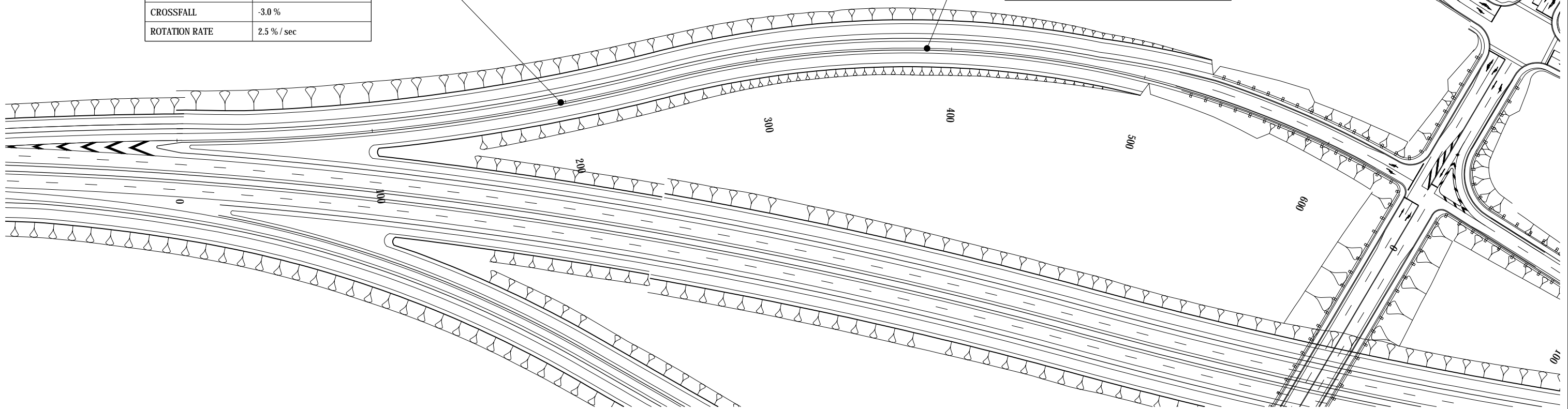
Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION - MCE0		
Drawing No:	62236-B-C140		Rev: 0

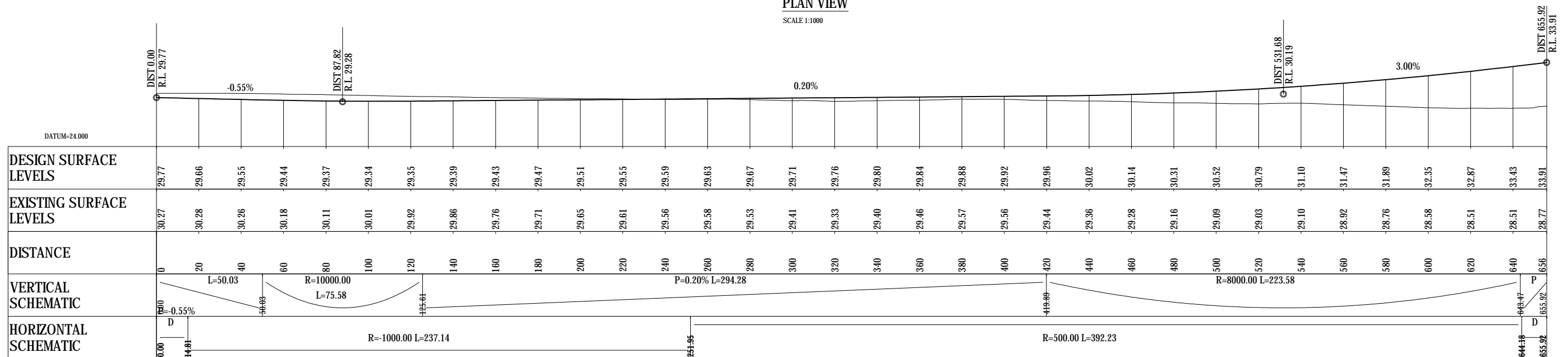


EASTBOUND OFF-RAMP - MCF0	
LABEL	DESCRIPTION
CURVE 23 - CH 14.81 to CH 251.95	1000mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3.0 %
ROTATION RATE	2.5 % / sec

EASTBOUND OFF-RAMP - MCF0	
LABEL	DESCRIPTION
CURVE 24 - CH 251.95 to CH 644.18	500mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3.0 %
ROTATION RATE	2.5 % / sec



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCF0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

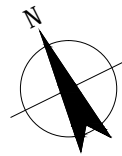
0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



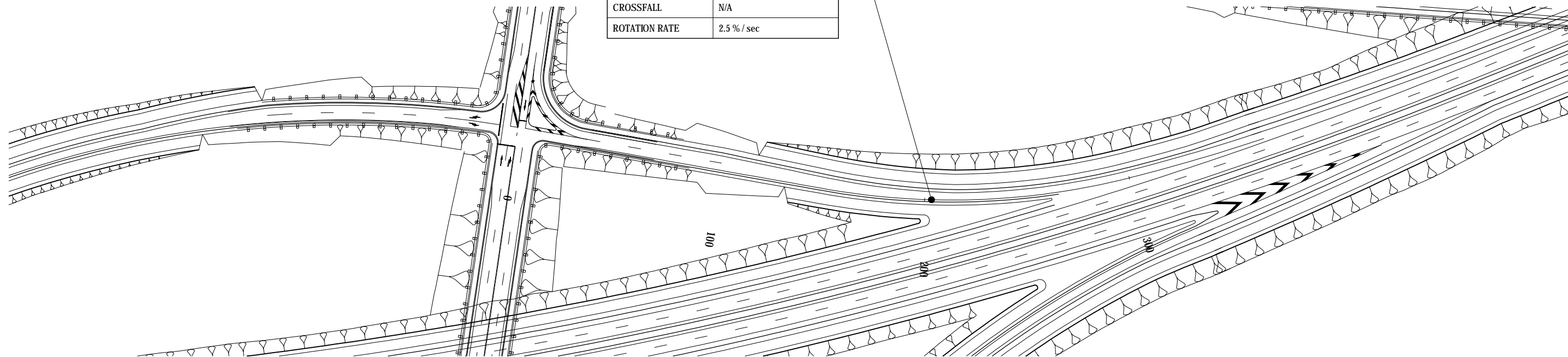
DO NOT SCALE
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Drawn	BSE	Designed	JAS
Drafting	JAS	Design	DGA
Check		Check	
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2		
Title	PLAN & LONGITUDINAL SECTION - MCF0		
Drawing No:	62236-B-C141		Rev: 0

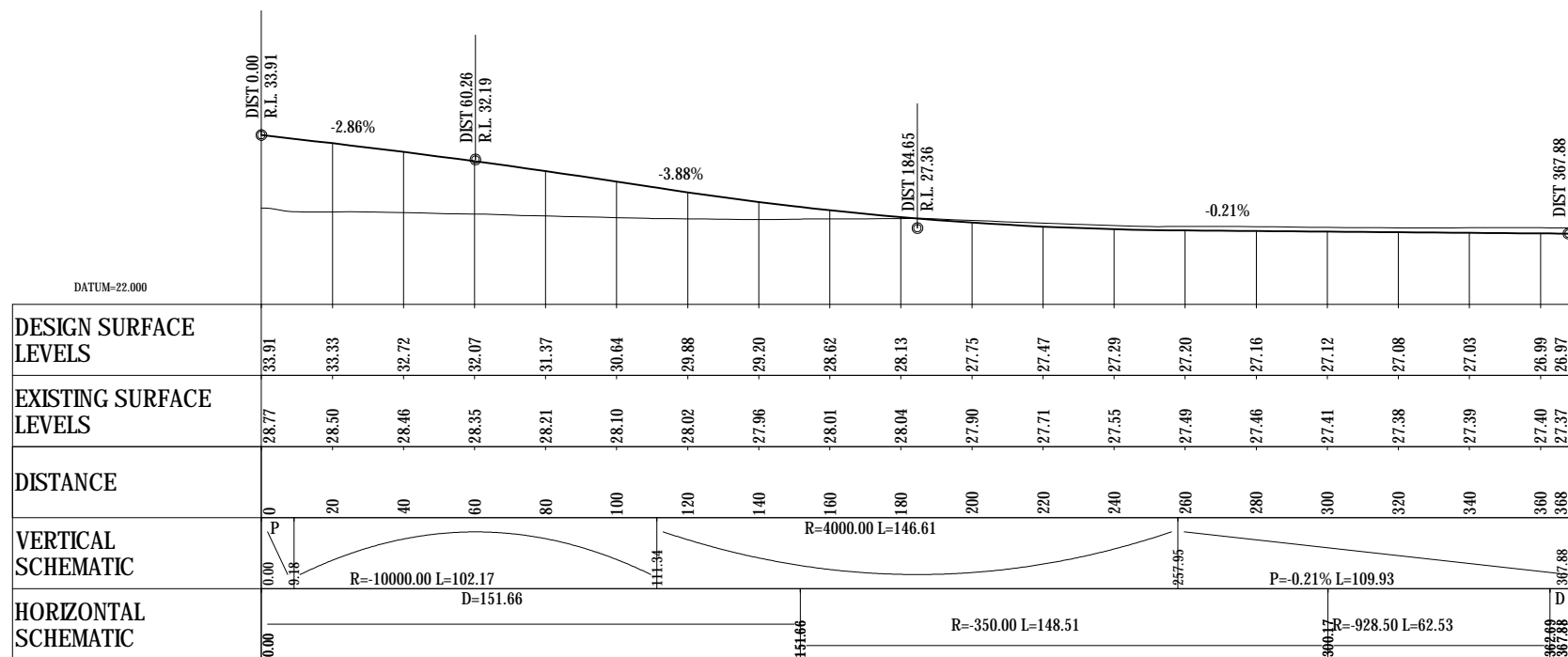


EASTBOUND OFF-RAMP - MCG0	
LABEL	DESCRIPTION
CURVE 25 - CH 151.66 TO CH 300.17	350mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	4.0%
CROSSFALL	N/A
ROTATION RATE	2.5 % / sec



PLAN VIEW

SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCG0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

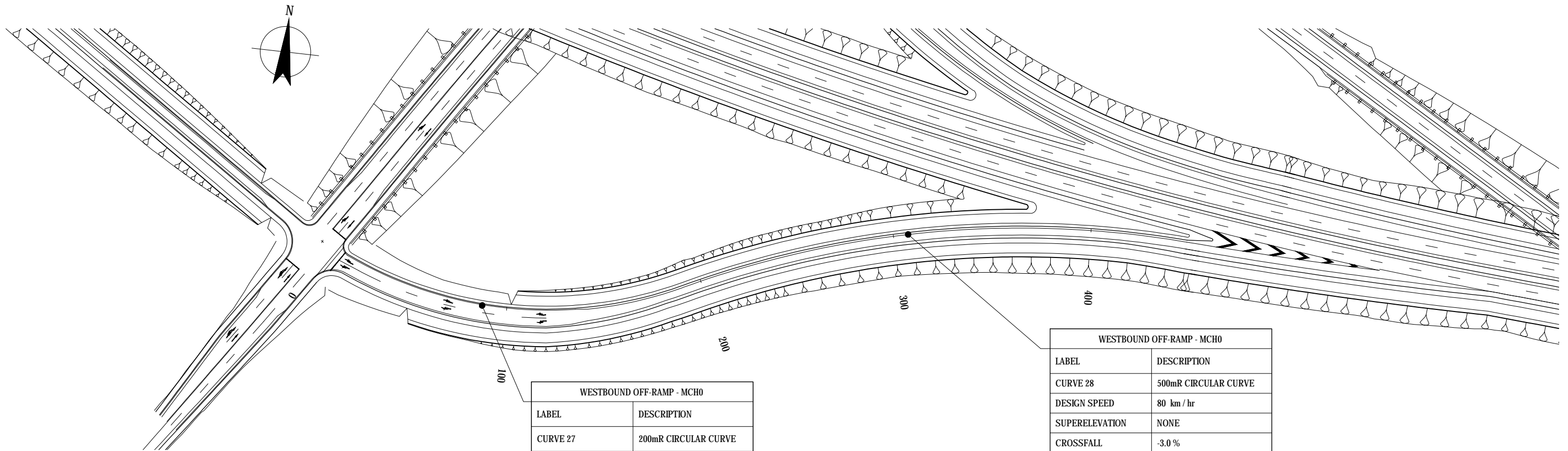


DO NOT SCALE

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Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

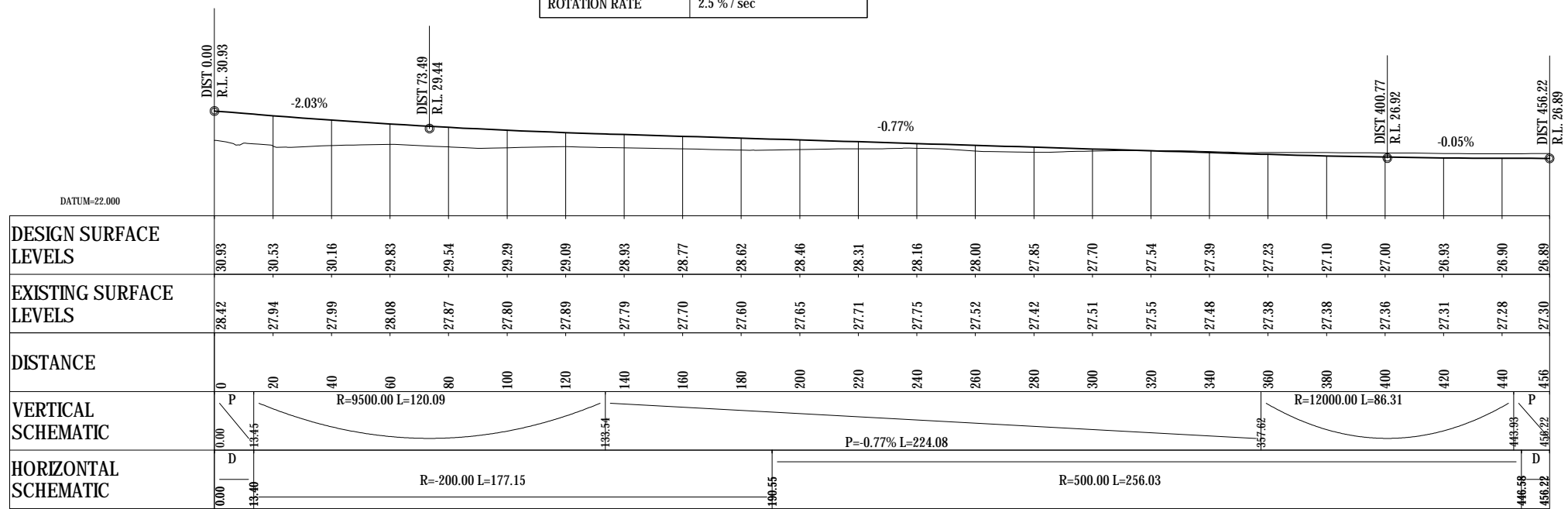
Client	NEW ZEALAND TRANSPORT AGENCY		
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11		
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION - MCG0		
Drawing No:	62236-B-C142		Rev: 0



WESTBOUND OFF-RAMP - MCH0	
LABEL	DESCRIPTION
CURVE 27	200mR CIRCULAR CURVE
DESIGN SPEED	60 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3.0 %
ROTATION RATE	2.5 % / sec

WESTBOUND OFF-RAMP - MCH0	
LABEL	DESCRIPTION
CURVE 28	500mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3.0 %
ROTATION RATE	2.5 % / sec

PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCH0
SCALE HORIZ=1:1000 VERT=1:250

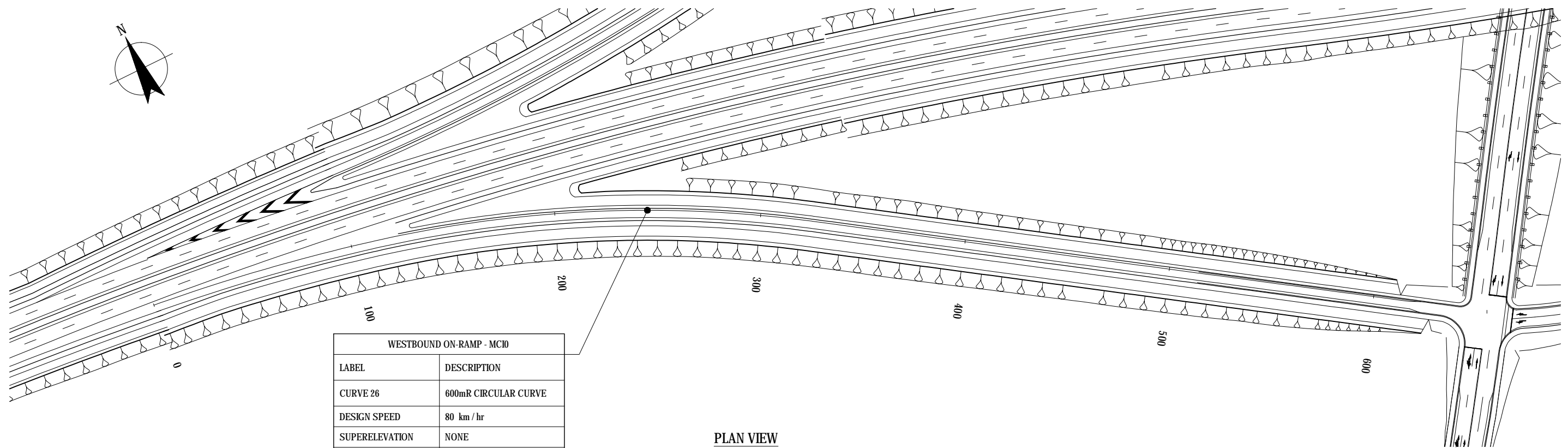
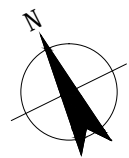
FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



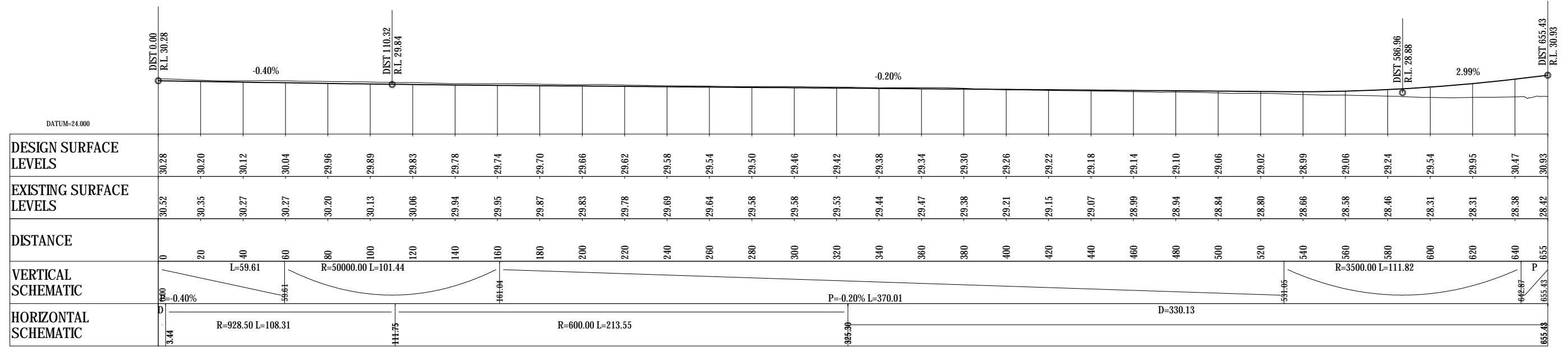
DO NOT SCALE <small>This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.</small>	Drawn BSE Designed JAS
	Drafting JAS Check DGA
	Approved GARY PAYNE
	Date 29.08.12
A1 Scale A3 Scale	Half Scale Shown This Drawing must not be used for Construction unless signed as Approved

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION - MCH0
Drawing No:	62236-B-C143
Rev:	0



WESTBOUND ON-RAMP - MC10	
LABEL	DESCRIPTION
CURVE 26	600mR CIRCULAR CURVE
DESIGN SPEED	80 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3.0 %
ROTATION RATE	2.5 % / sec

PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MC10
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



NZ TRANSPORT AGENCY
WAKA KOTAHI





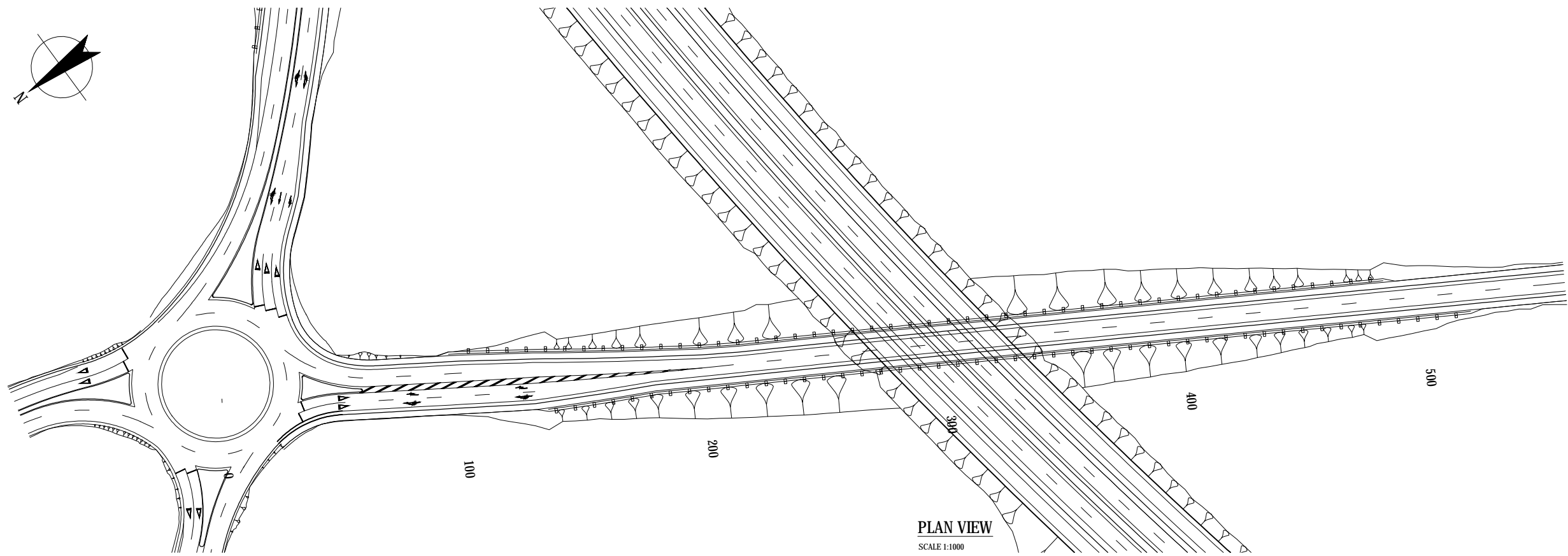
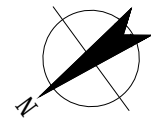
DO NOT SCALE

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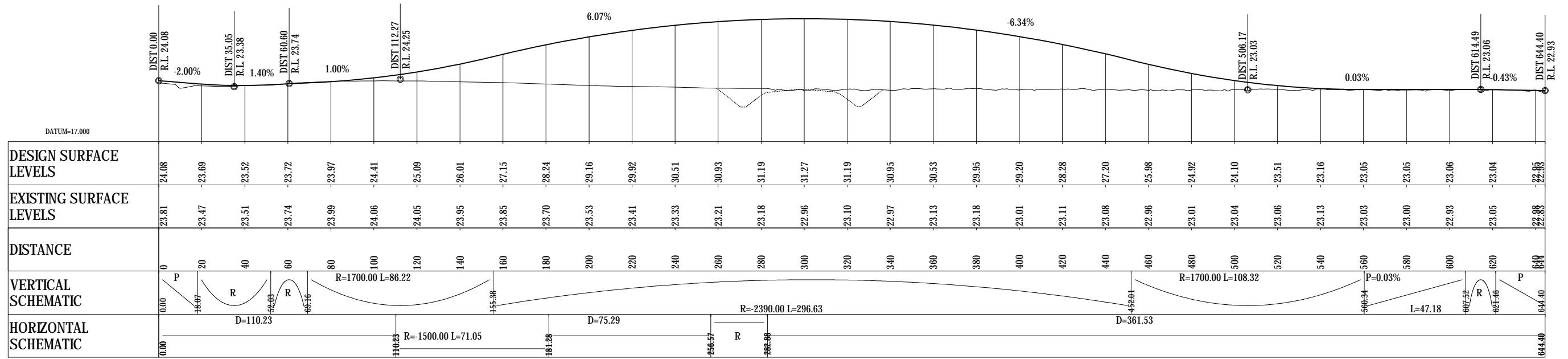
Drawn	BSE	Designed	JAS
Drafting	JAS	Design	DGA
Check		Check	
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	Half Scale Shown		

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION - MC10
Drawing No:	62236-B-C144
Rev:	0



PLAN VIEW
SCALE 1:1000

DIST 303.70
R.L. 35.87



LONGITUDINAL SECTION ON CONTROL STRING MCP0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



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DO NOT SCALE

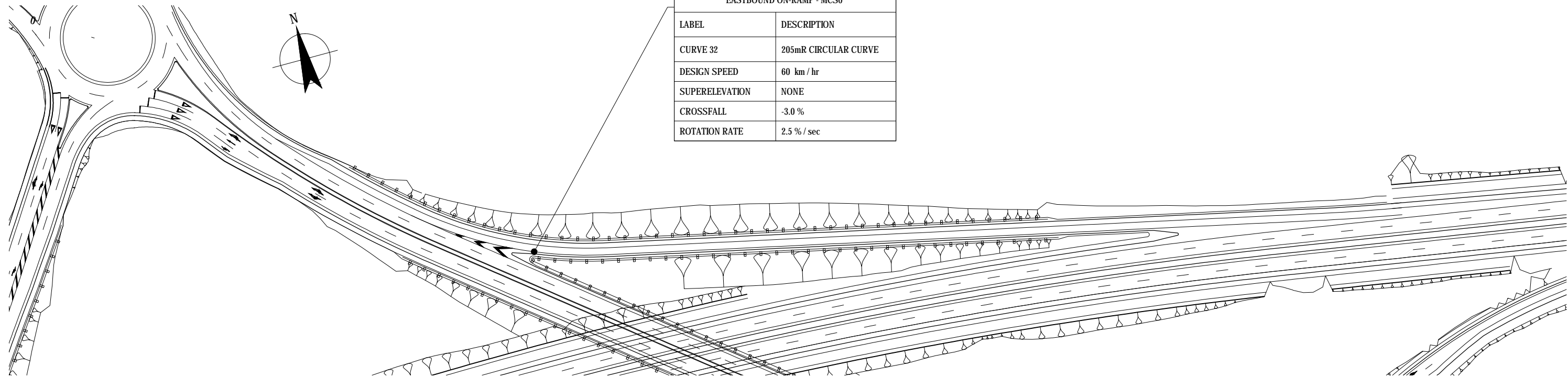
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Drawn	BSE	Designed	JAS
Drafting	JAS	Design	DGA
Check		Check	
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	AS SHOWN		
A3 Scale	AS SHOWN		

Client **NEW ZEALAND TRANSPORT AGENCY**
Project **SH1 REGION 11 RP350/3.92 TO RP365/2.11**
Title **CHRISTCHURCH SOUTHERN MOTORWAY 2 PLAN & LONGITUDINAL SECTION - MCP0**

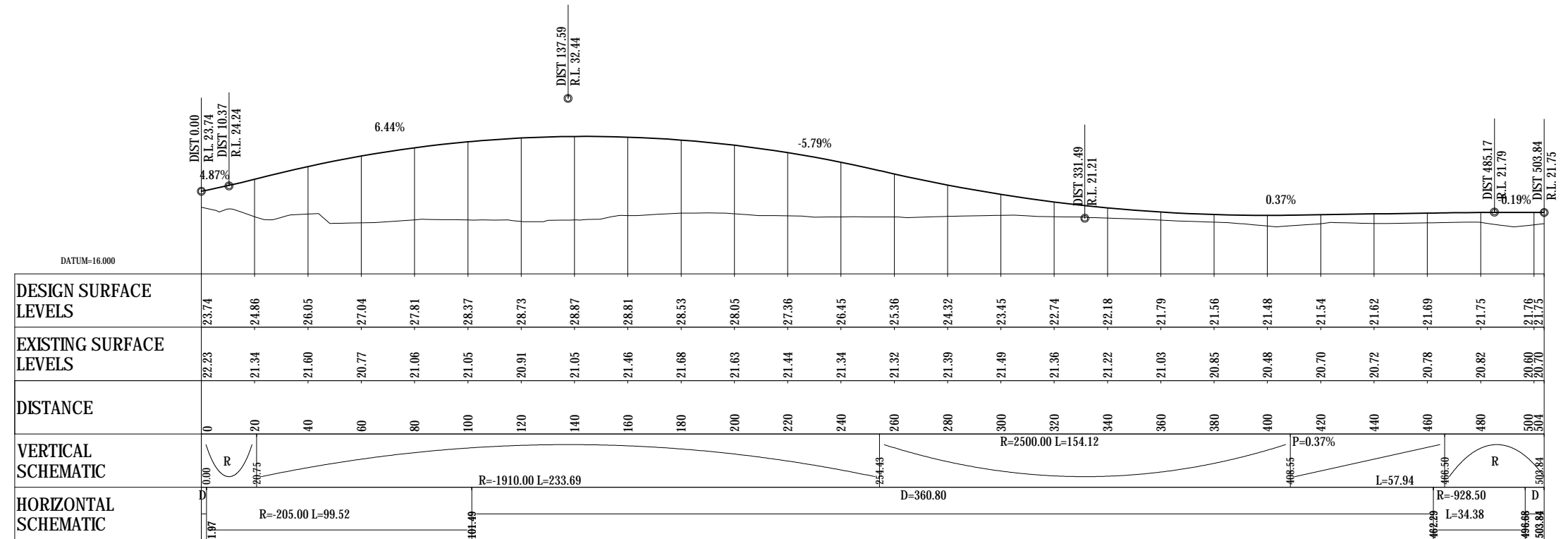
Drawing No: **62236-B-C145**

Rev: **0**



EASTBOUND ON-RAMP - MCS0	
LABEL	DESCRIPTION
CURVE 32	205mR CIRCULAR CURVE
DESIGN SPEED	60 km / hr
SUPERELEVATION	NONE
CROSSFALL	-3.0 %
ROTATION RATE	2.5 % / sec

PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCS0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12

NZ TRANSPORT AGENCY
WAKA KOTAHI

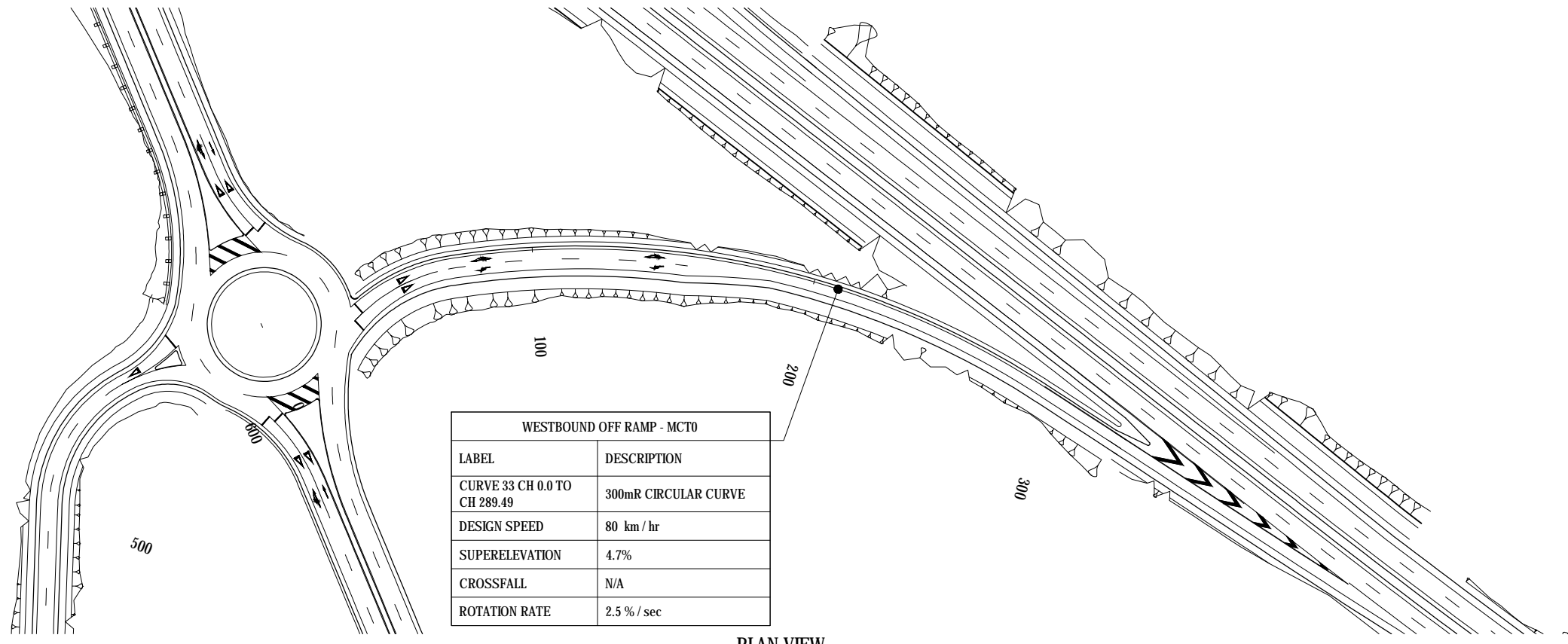
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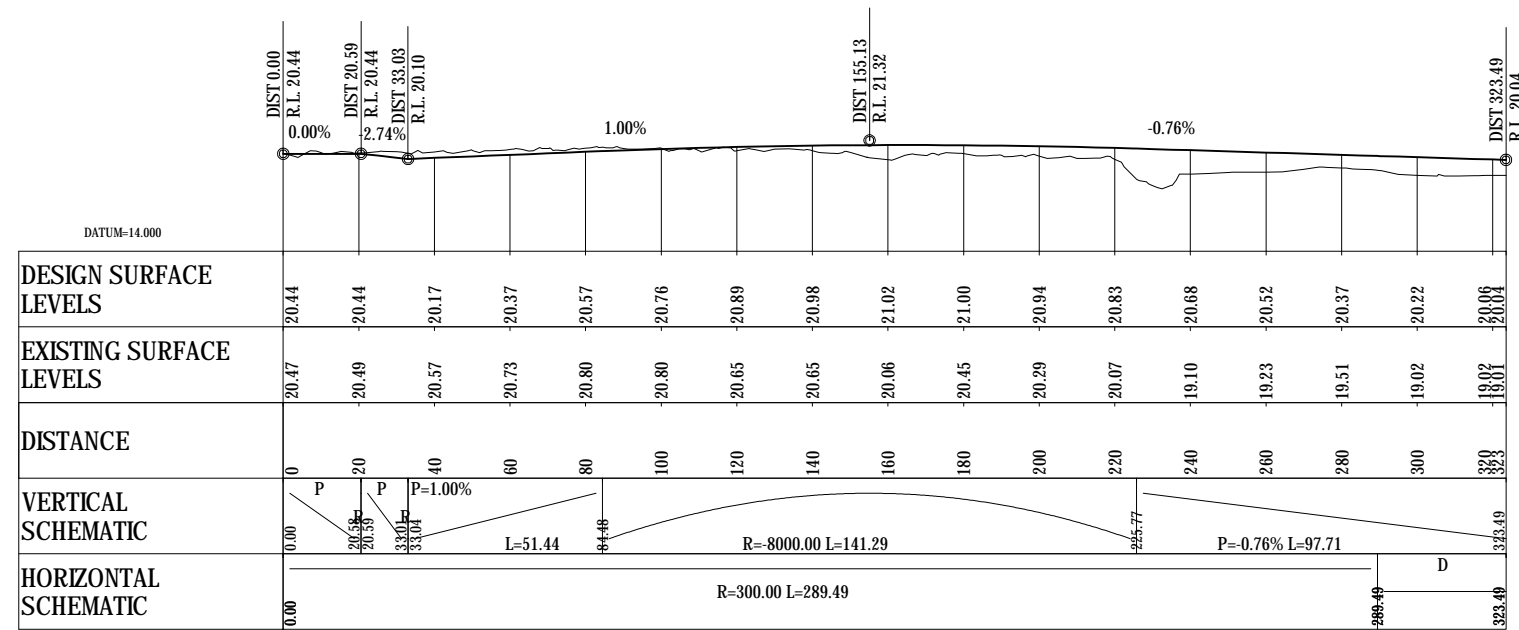
Drawn BSE	Designed JAS
Drafting JAS	Design Check DGA
Approved GARY PAYNE	
Date 29.08.12	
A1 Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2 PLAN & LONGITUDINAL SECTION - MCS0
Drawing No:	62236-B-C161
Rev:	0



PLAN VIEW

SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCT0

SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		AF	DGA	GAP	29.08.12



NZ TRANSPORT AGENCY
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Drawn	BSE	Designed	JAS
Drafting Check	JAS	Design Check	DGA
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	AS SHOWN		
A3 Scale	AS SHOWN		

Client

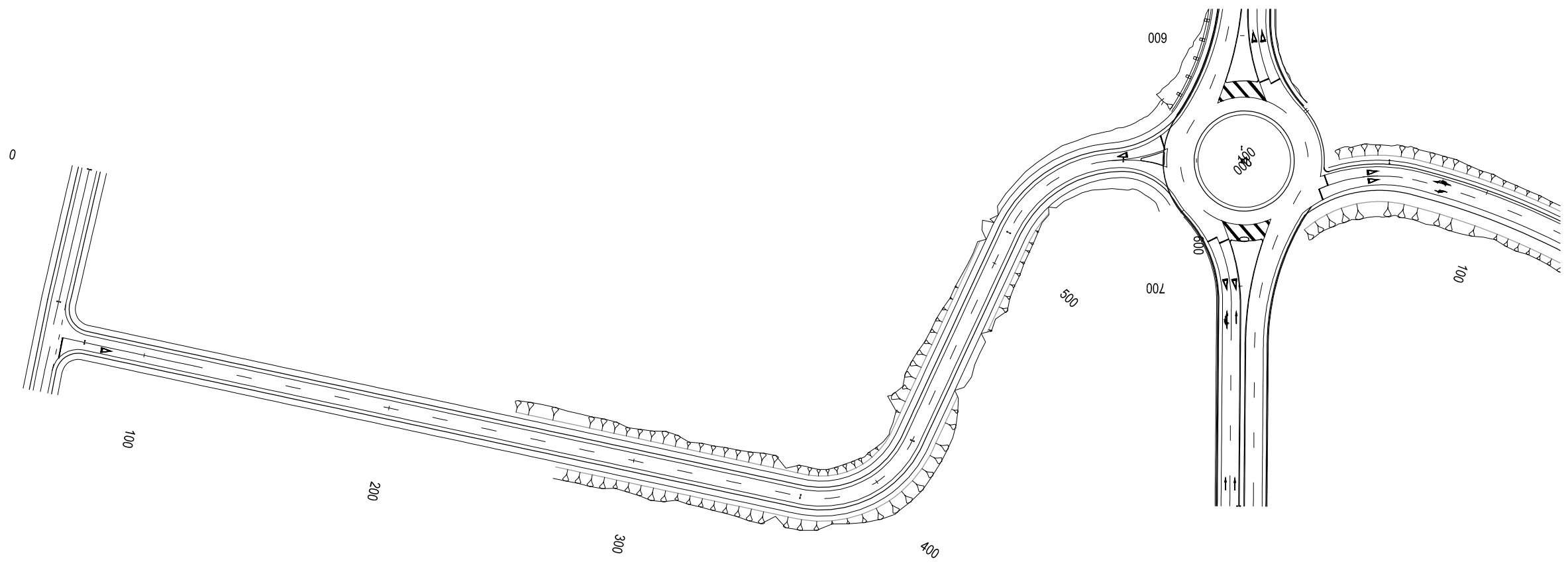
Project

Title

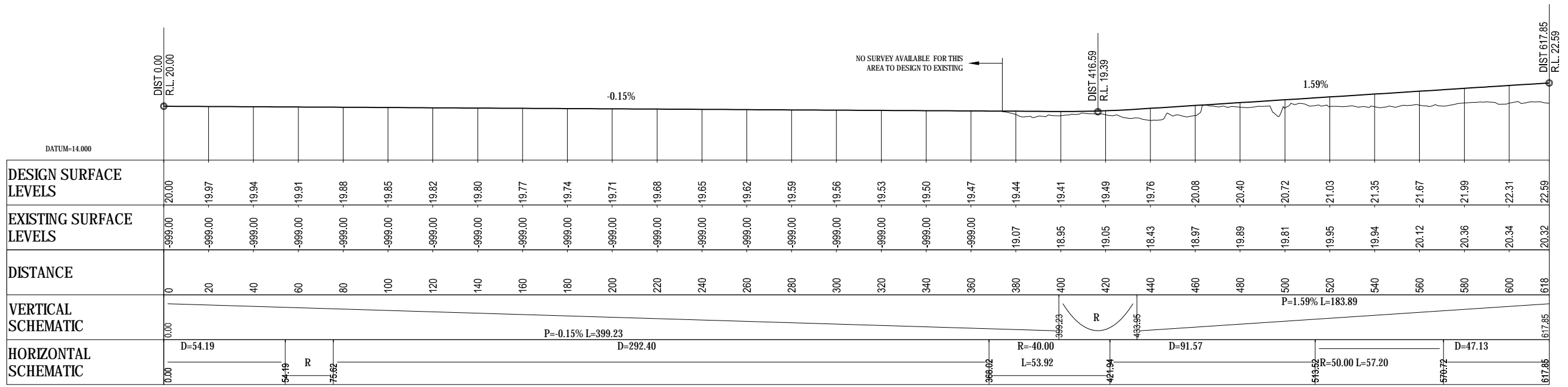
NEW ZEALAND TRANSPORT AGENCY
SH1 REGION 11 RP350/3.92 TO RP365/2.11
CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2
PLAN & LONGITUDINAL SECTION -MCT0

Drawing No: 62236-B-C162

Rev: 0



PLAN VIEW
SCALE 1:1000



LONGITUDINAL SECTION ON CONTROL STRING MCQ0
SCALE HORIZ=1:1000 VERT=1:250

FOR CONSENT

0	FOR CONSENT	AF	DGA	GAP	29.08.12	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY STAGE2 PLAN AND LONGITUDINAL SECTION - MCQ0
Drawing No:	62236-B-C163
Rev:	0