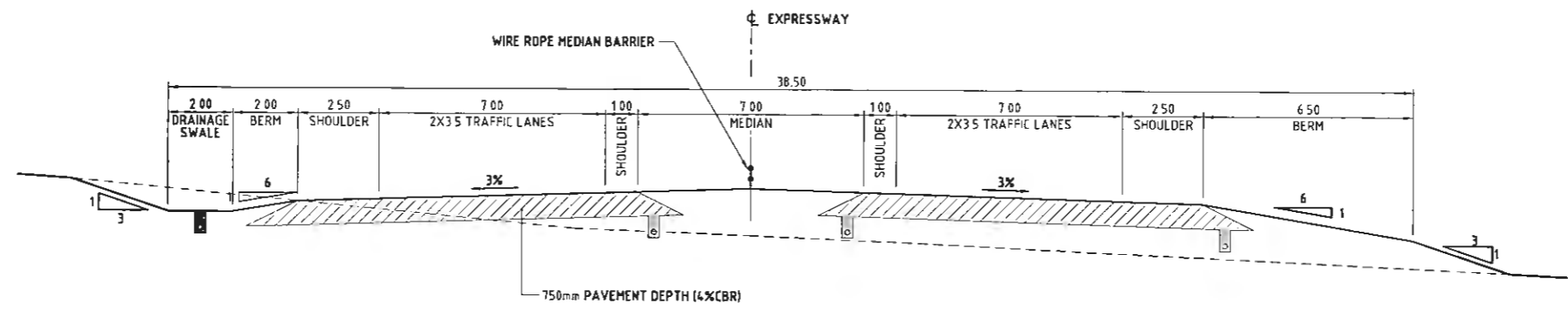
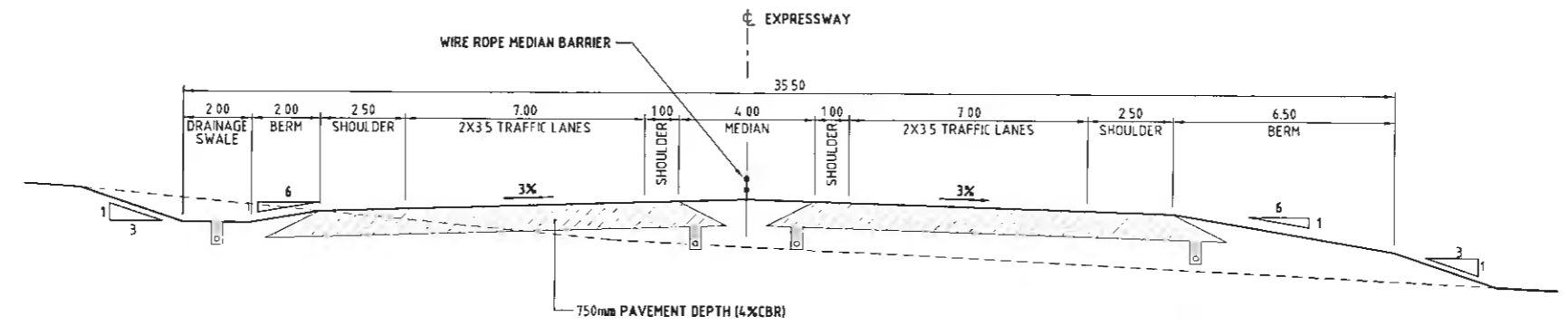


Appendix J

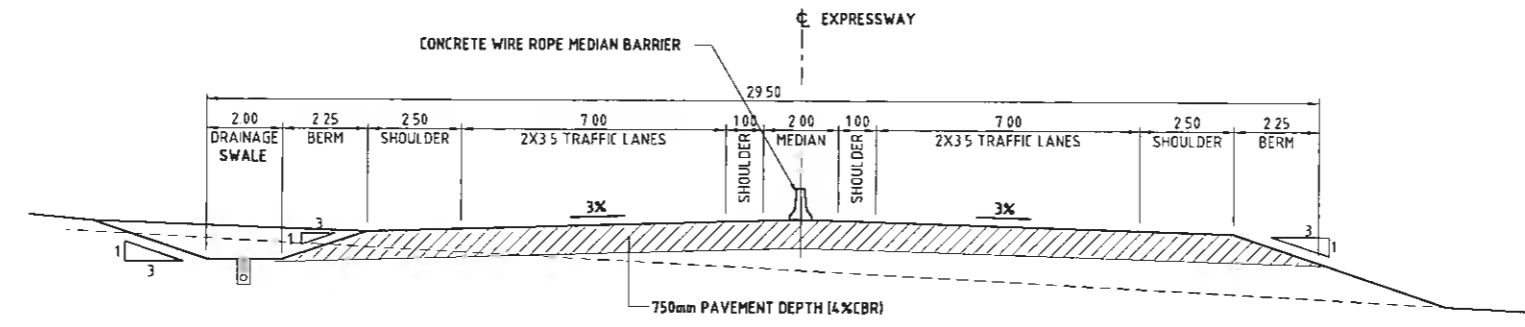
Short Listed Options Plans



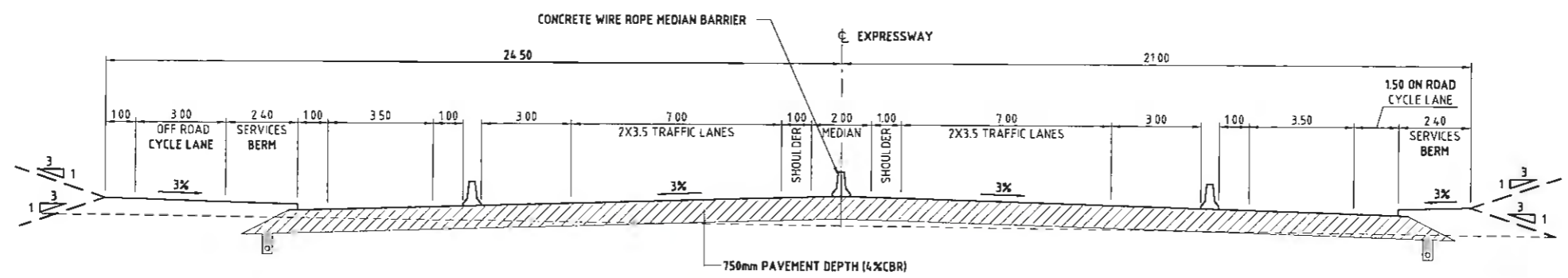
DESIRABLE RURAL TYPICAL CROSS SECTION (RONS STANDARD)
SCALE 1200 (A3)



URBAN TYPICAL CROSS SECTION
SCALE 1200 (A3)



MINIMUM TYPICAL CROSS SECTION (PROVISIONAL)
SCALE 1200 (A3)



URBAN EXPRESSWAY INCLUDING LOCAL "SLIPROADS" (CONCEPTUAL)
CROSS SECTION
SCALE 1200 (A3)

NOTE: ASSUME 750mm PAVEMENT DEPTH (4%CBR)

DRAFT
FOR INFORMATION

Original Scale (A1)	Design	SJP	12.08.10	Approved For	
1:100	Drawn	SY	12.08.10	100%	
Reduced Scale (A3)	Dwg. Verifier				
1:200	Dwg. Check				
	* Refer to Revision 1 for Original Signature				



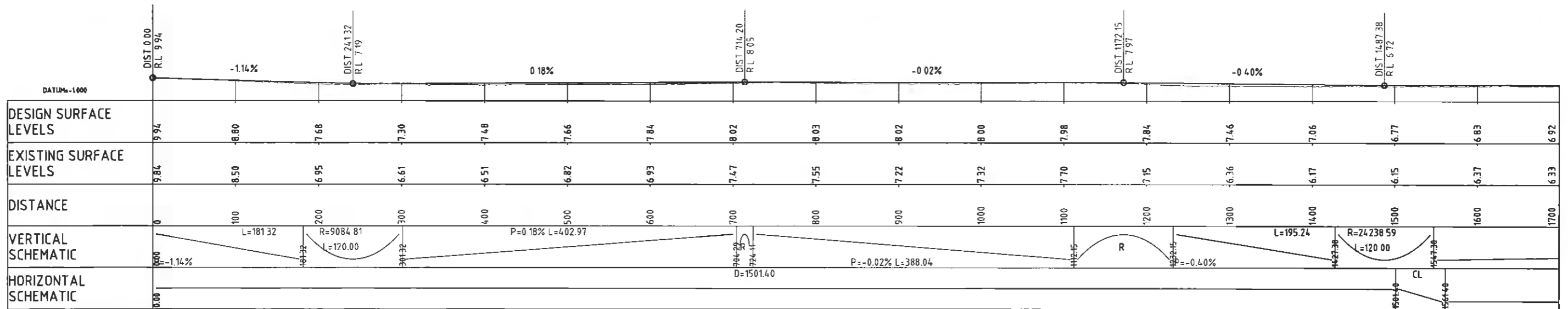
Project	SH1 REALIGNMENT MACKAYS TO PEKA PEKA RP 1012/0.00 TO 1023/5.00
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Title	PROPOSED EXPRESSWAY TYPICAL CROSS SECTIONS	Discipline	CIVIL
Drawing No	CK30	Rev	A

DRAWING: 100226263(AD)1106083E10001.PLT FILE PATH: I:\E:\PAT\1106083E10001.DWG



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 1:2500, 1:1000	Drawn SY	12.08.10	Approved For Issue*
Reduced Scale (A3) 1:5000, 1:2000	Design Verifier MJP	12.08.10	Date
By: SY SJP		Date: 25.08.10	
Checked: Adpa		Date:	



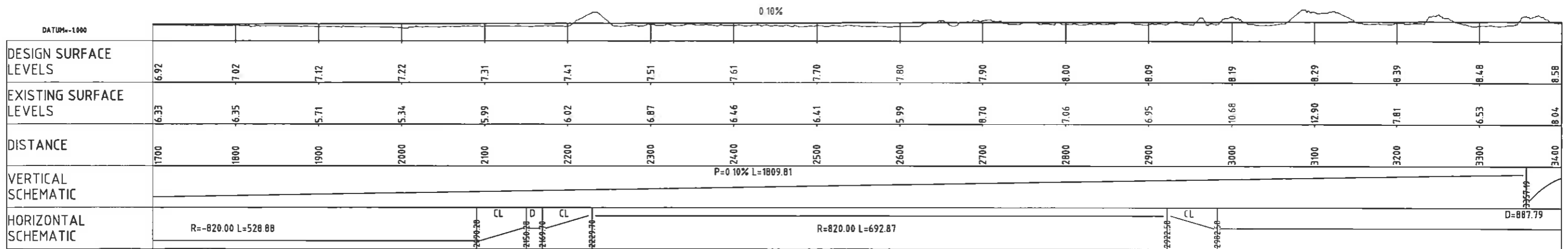
Project: **SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

Title: **EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S1Ciii
SHEET 1**

Discipline	CIVIL
Drawing No	3320901-CK270
Rev	A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1)	Design	SJP	12 08 10	Approved For Issue
12500, 1:1000	Drawn	SY	12 08 10	
Reduced Scale (A3)	Design	SJP	12 08 10	
15000, 1:2000	Check	SY	12 08 10	
	By	CHK	25 08 10	
	Date			



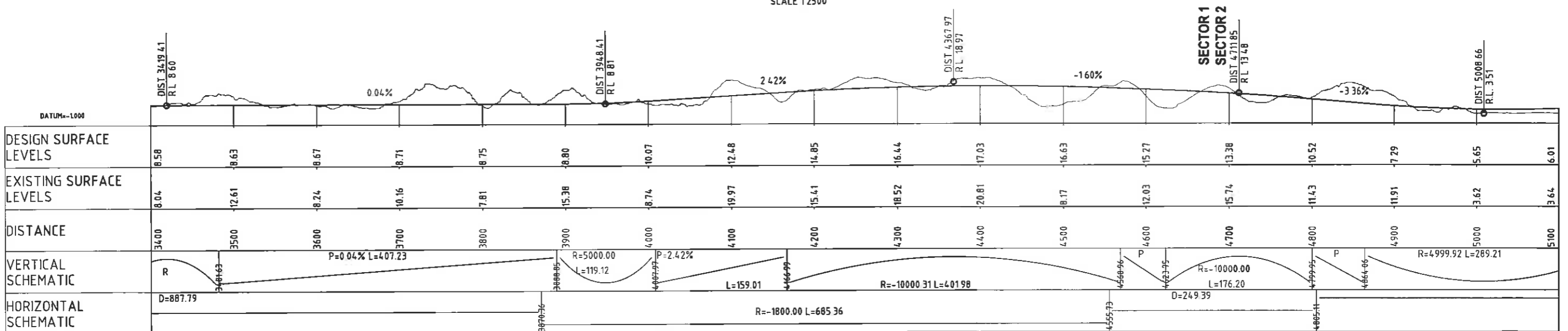
Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S1Ciii
SHEET 2

Discipline	CIVIL
Drawing No	3320901-CK271
Rev	A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 1:2500, 1:1000	Design Drawn SY	SJP	12 08 10	Approved For Issue*
Reduced Scale (A3) 1:5000, 1:2000	Design Checked Date	SJP	12 08 10	
No		Revision	By	Date
A		FOR INFORMATION	SY	25.08.10

NZ TRANSPORT AGENCY
Mackays to Peka Peka

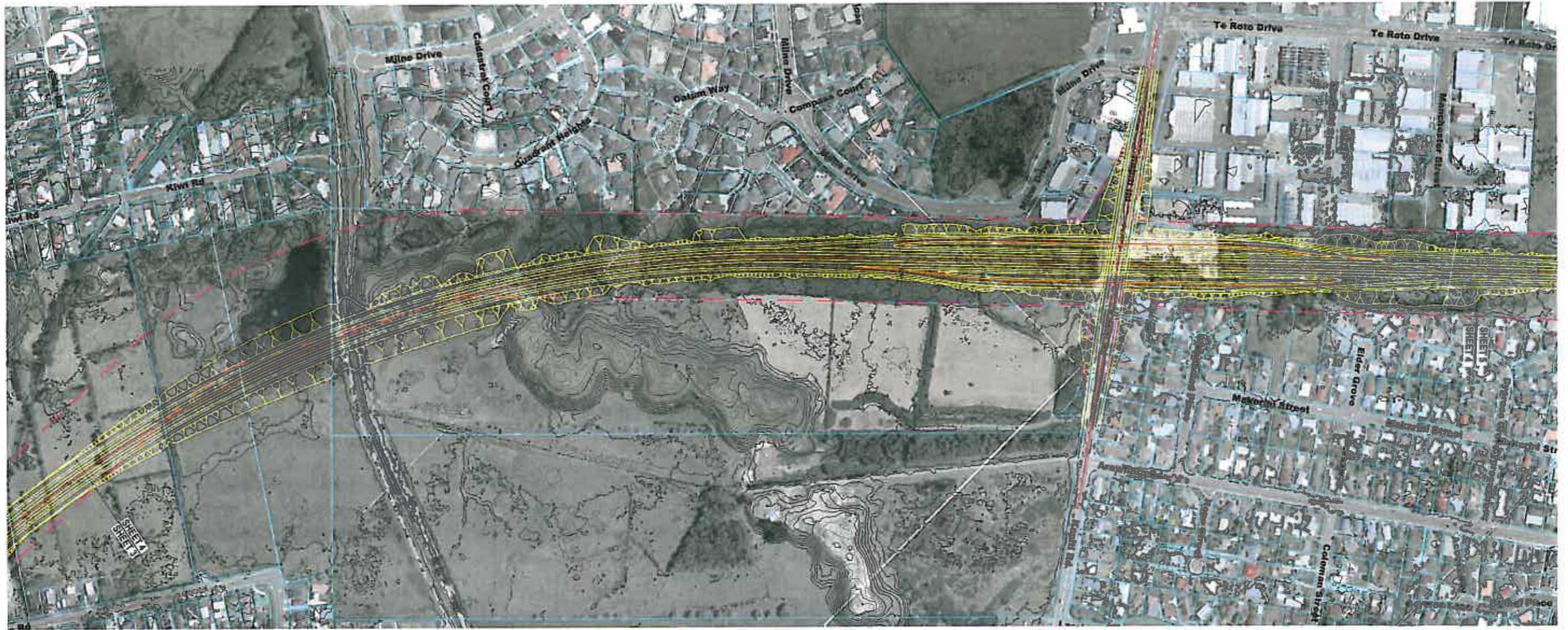
Project
**SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

Title
**EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S1Ciii
SHEET 3**

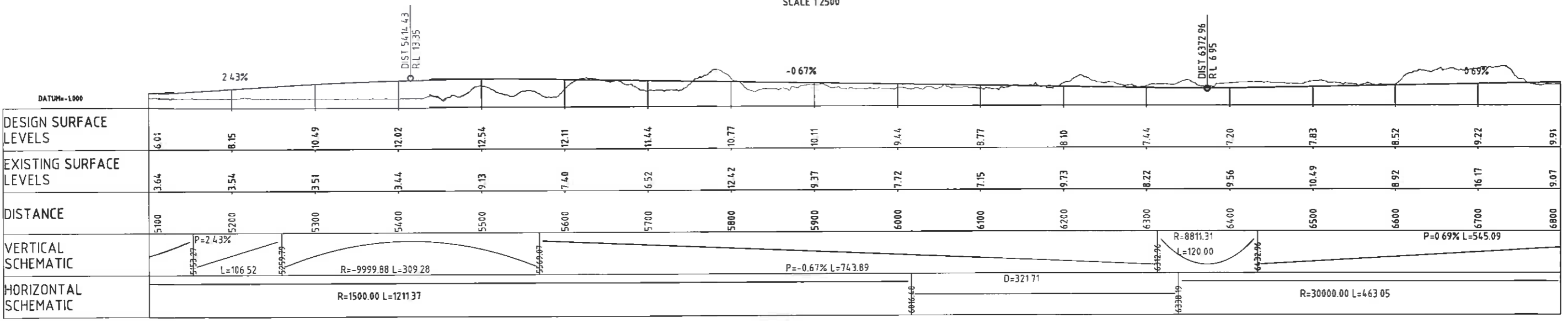
Discipline
CIVIL

Drawing No
3320901-CK272

Rev
A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 1:2500, 1:1000	Design SJP 12.08.10	Drawn SY 12.08.10	Approved For Issue Date
Reduced Scale (A3) 1:5000, 1:2000	Design SJP 25.08.10	Drawn SY 25.08.10	Date



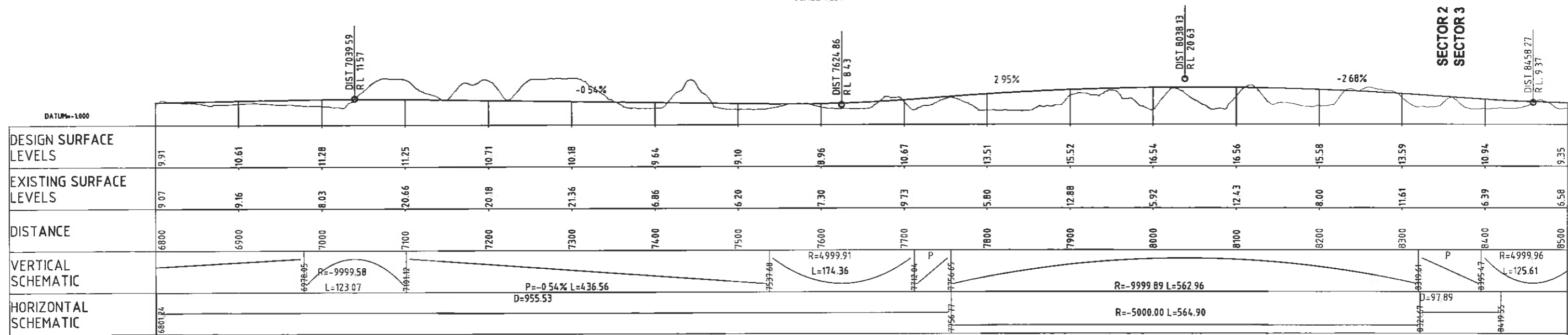
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MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S2Bi
SHEET 4

Discipline CIVIL	Rev A
Drawing No 3320901-CK273	



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 1:2500, 1:1000	Design Drawn Dwg. Verifier	SJP SY	12.08.10 12.08.10	Approved For Issue*
Reduced Scale (A3) 1:5000, 1:2000	Dwg. Checker Date	M/S SJP	25.08.10	
* Refer to Revision 1 for Original Signature				

NZ TRANSPORT AGENCY
1 Mackays to Peka Peka

Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3
SHEET 5

Discipline: CIVIL
Drawing No: 3320901-CK274
Rev: A



PLAN
SCALE 1:2500

	8500	8600	8700	8800	8900	9000	9100	9200	9300	9400	9500	9600	9700	9800	9900	10000	10100	10200	
DESIGN SURFACE LEVELS	9.35	9.14	8.97	8.80	8.64	8.47	8.30	8.13	7.97	7.80	7.63	7.47	7.30	7.13	6.97	6.80	6.63	6.47	
EXISTING SURFACE LEVELS	6.58	7.91	10.56	7.97	13.29	7.15	7.61	10.30	11.68	16.71	6.61	6.04	7.64	13.17	9.42	2.105	7.06	3.93	
DISTANCE	8500	8600	8700	8800	8900	9000	9100	9200	9300	9400	9500	9600	9700	9800	9900	10000	10100	10200	
VERTICAL SCHEMATIC																			
HORIZONTAL SCHEMATIC																			

LONGSECTION
SCALE HORIZ = 12500 VERT = 1:1000

DRAFT
FOR INFORMATION

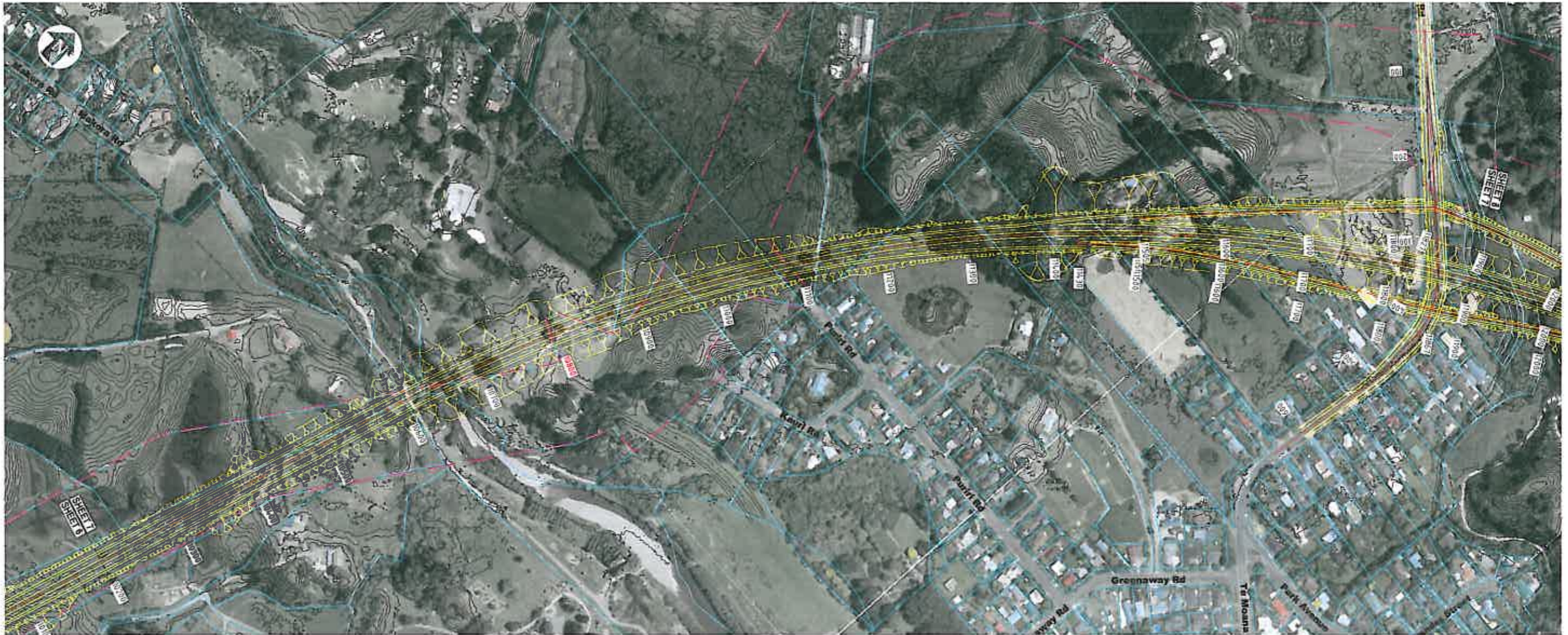
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Reduced Scale (A3) 1:5000, 1:2000	Drawn SY	12/08/10	Issue*
	Design Verifier Date		
	Dwg Check Date		
	Refer to Revision 1 for Original Signature		



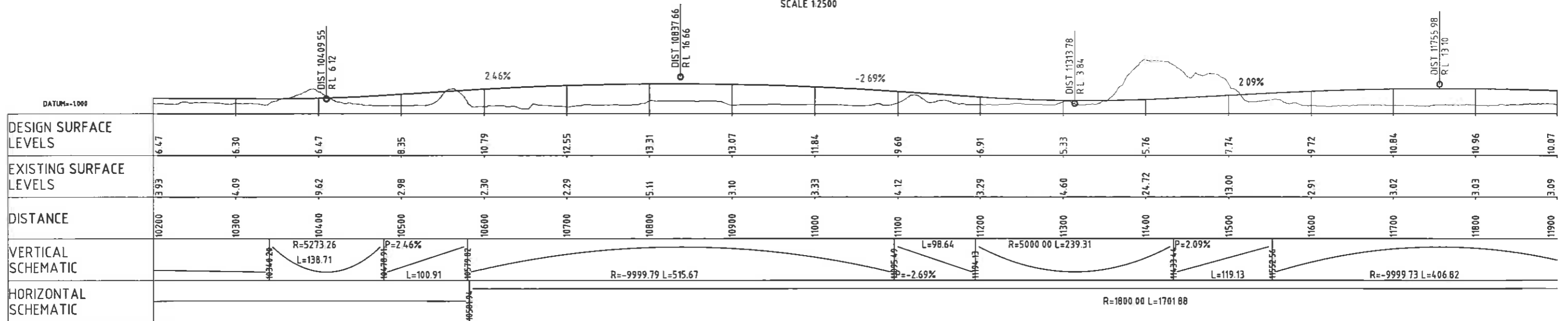
Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S3D
SHEET 6

Discipline: CIVIL
Drawing No: 3320901-CK275
Rev: A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 1:2500, 1:1000	Design Drawn SJP SY	12 08 10 12 08 10	Approved For Issue*
Reduced Scale (A3) 1:5000, 1:2000	Design Checked SJP MJC	12 08 10 12 08 10	Date
* Refer to Revision 1 for Original Signature			

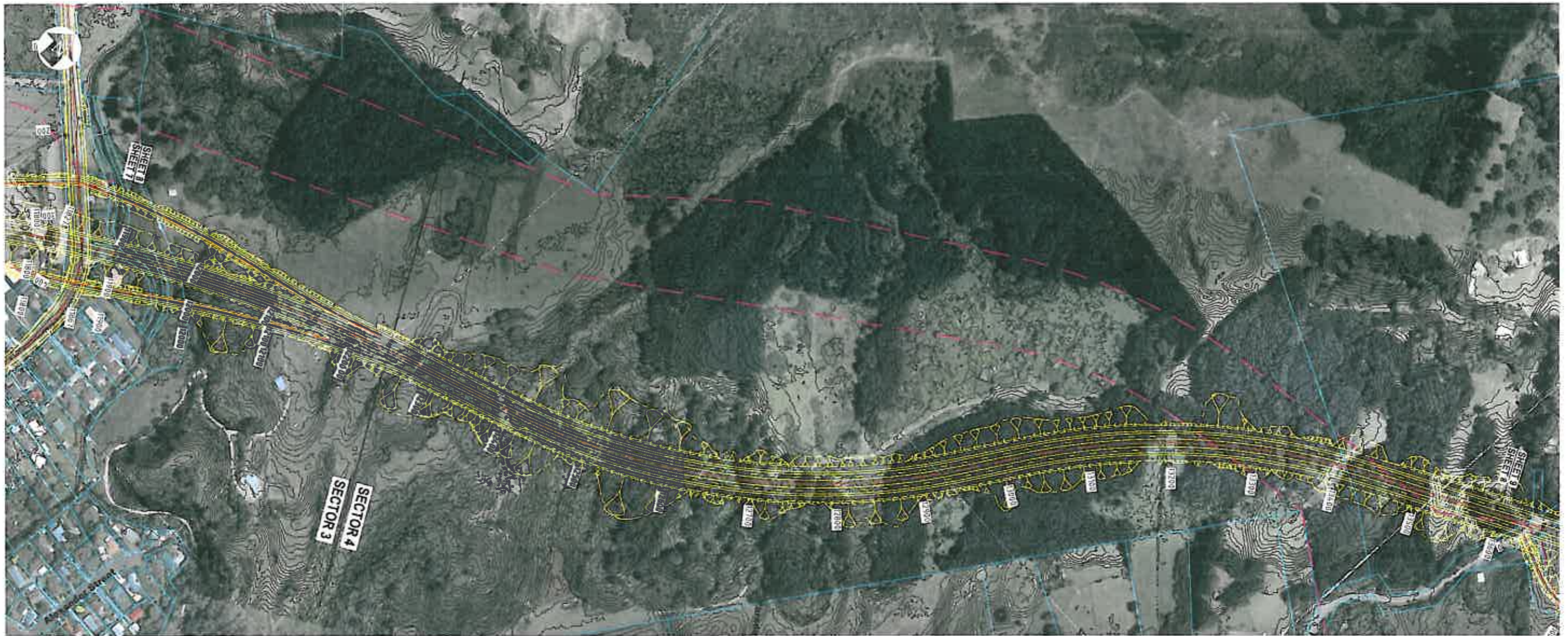


Mackays to Peka Peka

Project
**SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

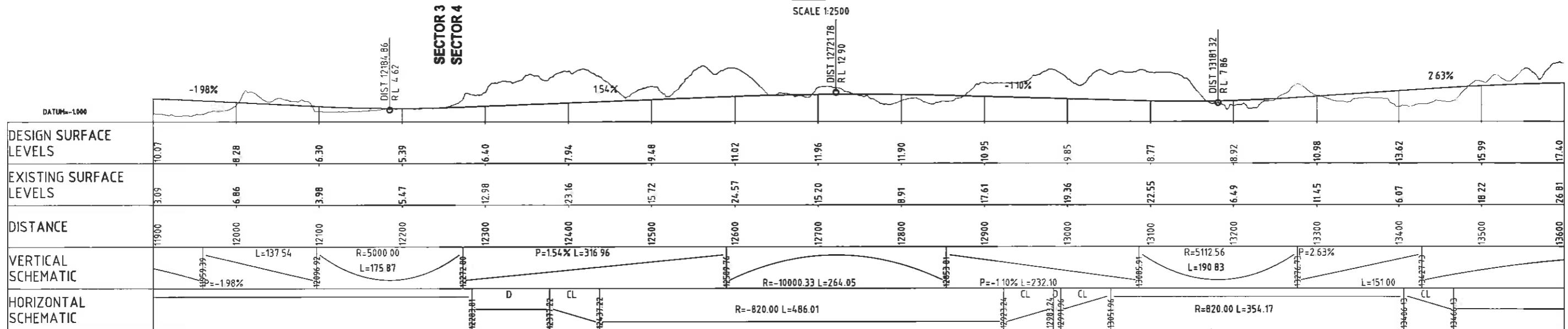
Title
**EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S3D
SHEET 7**

Discipline
CIVIL
Drawing No
3320901-CK276
Rev
A



PLAN

SCALE 1:2500



LONGSECTION

SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A.1)	1:2500, 1:1000	Design	SJP	12.08.10	Approved For	12.08.10
Reduced Scale (A.3)	15000, 12000	Drawn	SY		12.08.10	
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		Date				



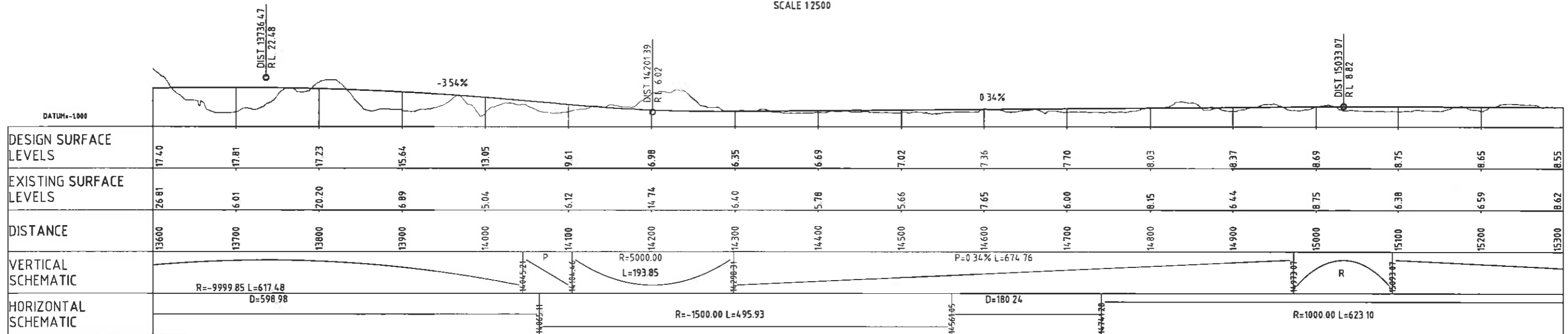
Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S3D
SHEET 8

Discipline	CIVIL
Drawing No	3320901-CK277
Rev	A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1)	Design	SJP	12.08.10	Approved For Issue*
1:2500, 1:1000	Drawn	SY	12.08.10	
Reduced Scale (A3)	Day Verifier			
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	By	SJP	11/25.08.10	Date
	Chk			
	Rev			
	Appd			
	Date			

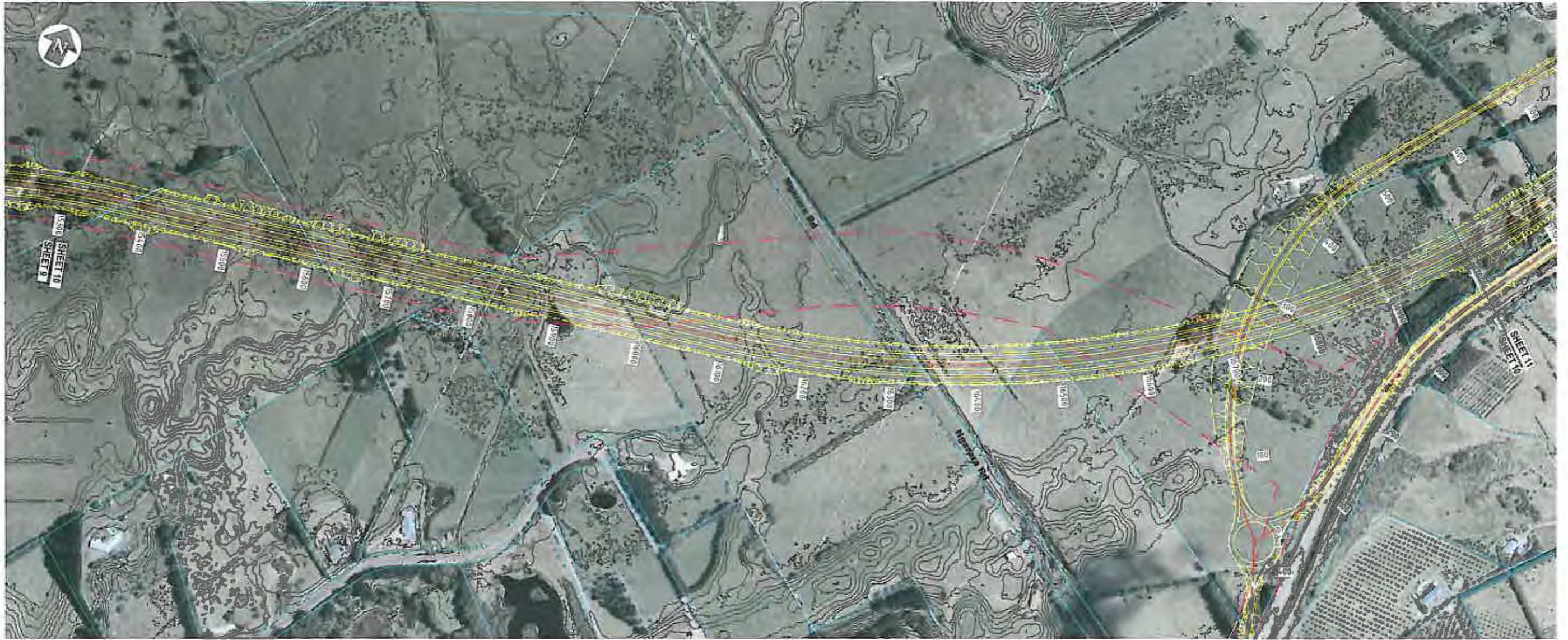


Mackays to Peka Peka

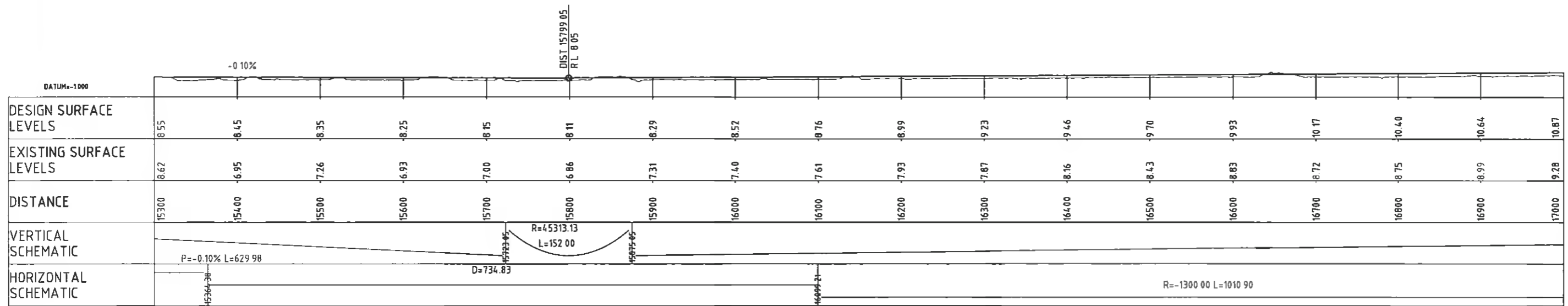
Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S4Ai
SHEET 9

Discipline: CIVIL
Drawing No: 3320901-CK278
Rev: A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 1:2500, 1:1000	Design Drawn Disg. Verifier Jag Check	SJP SY [Signature]	12/08/10 12/08/10 17/7/17	Approved For Issue* Date
Reduced Scale (A3) 1:5000, 1:2000	* Refer to Revision 1 for Original Signature			



Mackays to Peka Peka

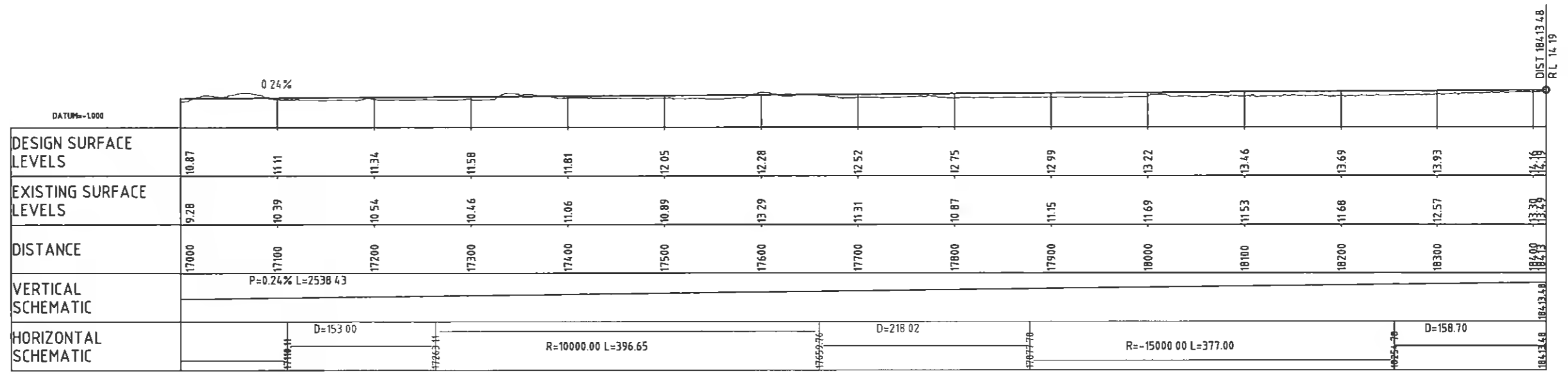
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**SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

Title
**EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S4Ai
SHEET 10**

Discipline
CIVIL
Drawing No
3320901-CK279
Rev
A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1)	1:2500	Design	SJP	12.08.10	Approved For Issue
Reduced Scale (A3)	1:5000	Drawn	SY	12.08.10	
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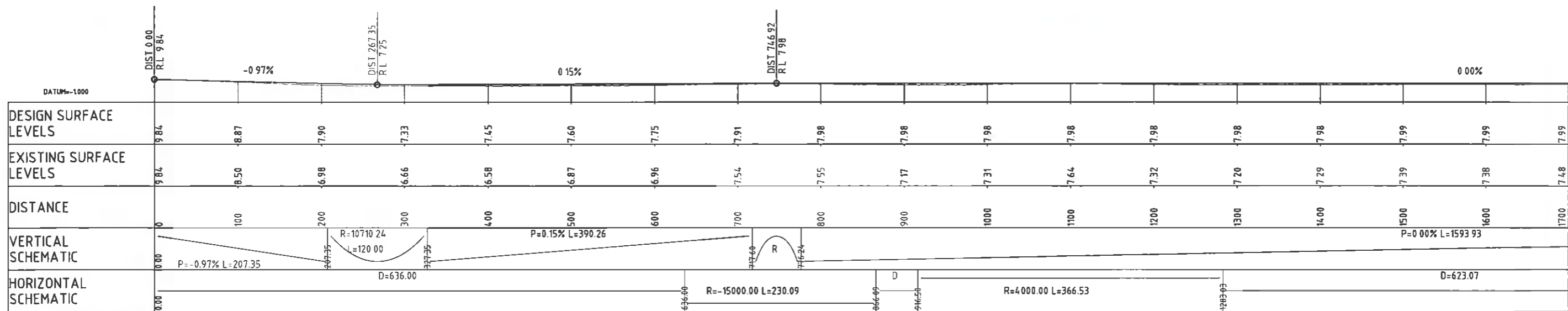


Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Discipline	CIVIL
Drawing No	3320901-CK280
Rev	A



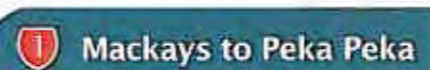
PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 12500, 1:1000	Design Scale (A3) 15000, 1:2000	Design SJP	Drawn SY	12/08/10	12/08/10	Approved For Issue*
Reduced Scale (A3) 15000, 1:2000	By SY	Checked SJP	Date 25/08/10	Checked SJP	Date 25/08/10	Refer to Revision 1 for Original Signature



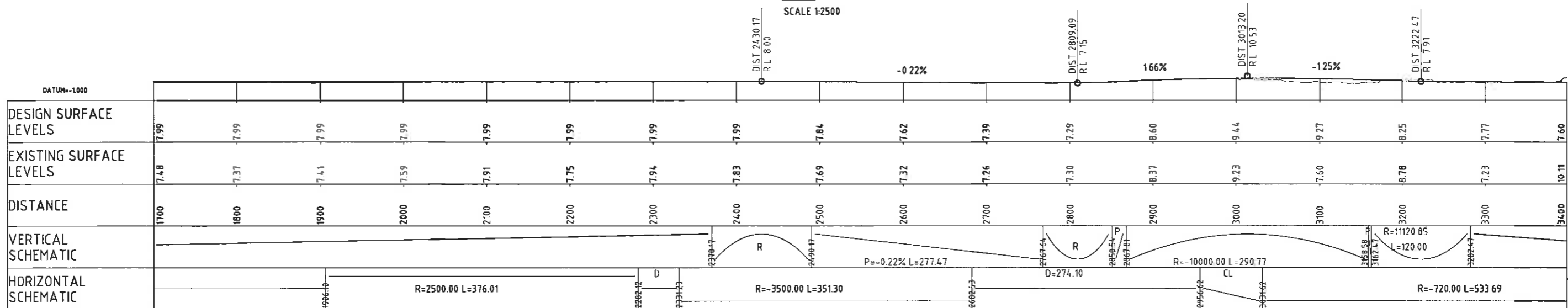
Project
**SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

Title
**EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S10ii
SHEET 1**

Discipline
CIVIL
Drawing No
3320901-CK281
Rev
A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 12500, 1:1000	Design Drawn SJP SY	12 08 10 12 08 10	Approved For Issue*
Reduced Scale (A2) 15000, 1:2000	Design Verifier Dwg Check MHW Date	12 08 10	
* Refer to Revision 1 for Original Signature			

NZ TRANSPORT
AC/13/Cy
Mackays to Peka Peka

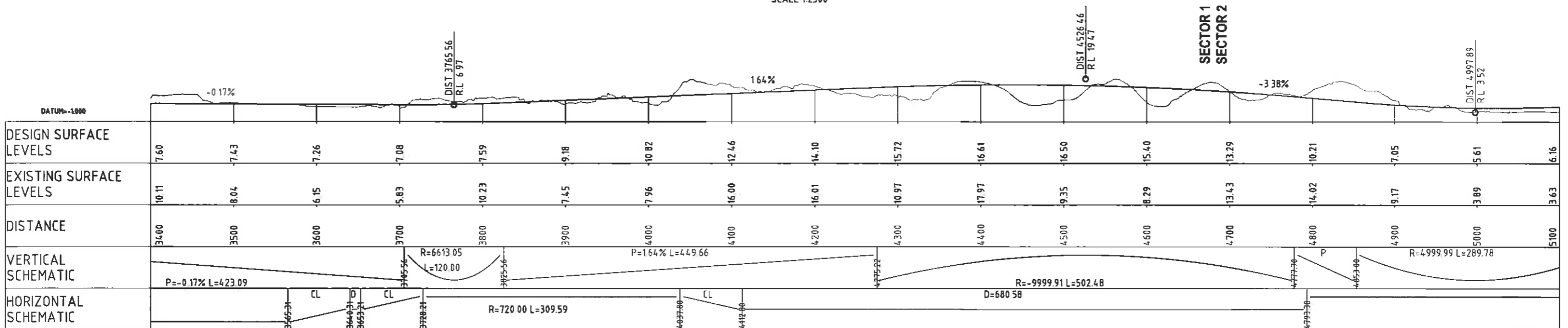
Project
**SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

Title
**EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION SIDii
SHEET 2**

Discipline CIVIL	Rev A
Drawing No 3320901-CK282	



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1)	12500, 11000	Design	SJP	12.08.10	Approved For Issue*
Reduced Scale (A3)	15000, 12000	Drawn	SY	12.08.10	Date
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* Refer to Revision 1 for Original Signature					

Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

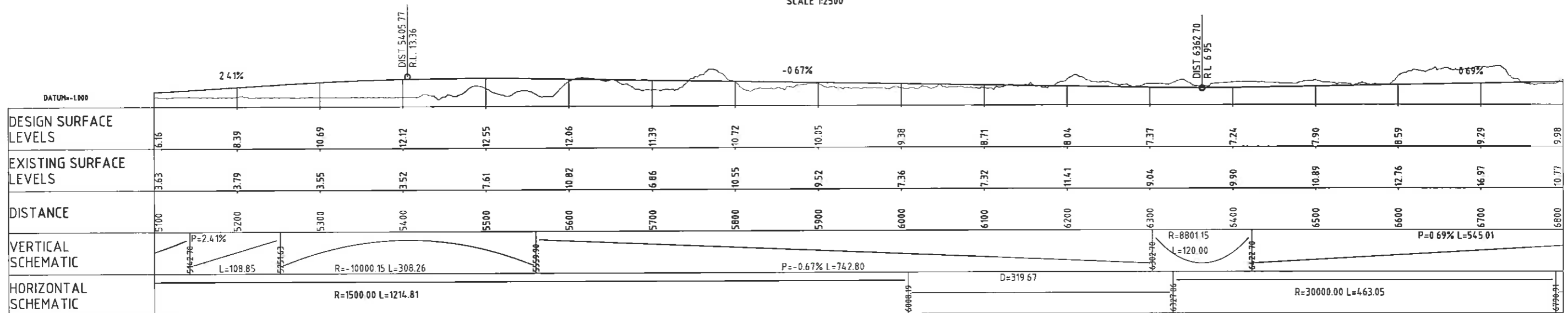
Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S10i
SHEET 3

Discipline	CIVIL
Drawing No	3320901-CK283
Rev	A



PLAN

SCALE 1:2500



LONGSECTION

SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT

FOR INFORMATION

Original Scale (A1)	1:2500, 1:1000	Design	SJP	12/08/10	Approved For Issue*
Reduced Scale (A3)	1:5000, 1:2000	Drawn	SY	12/08/10	Date
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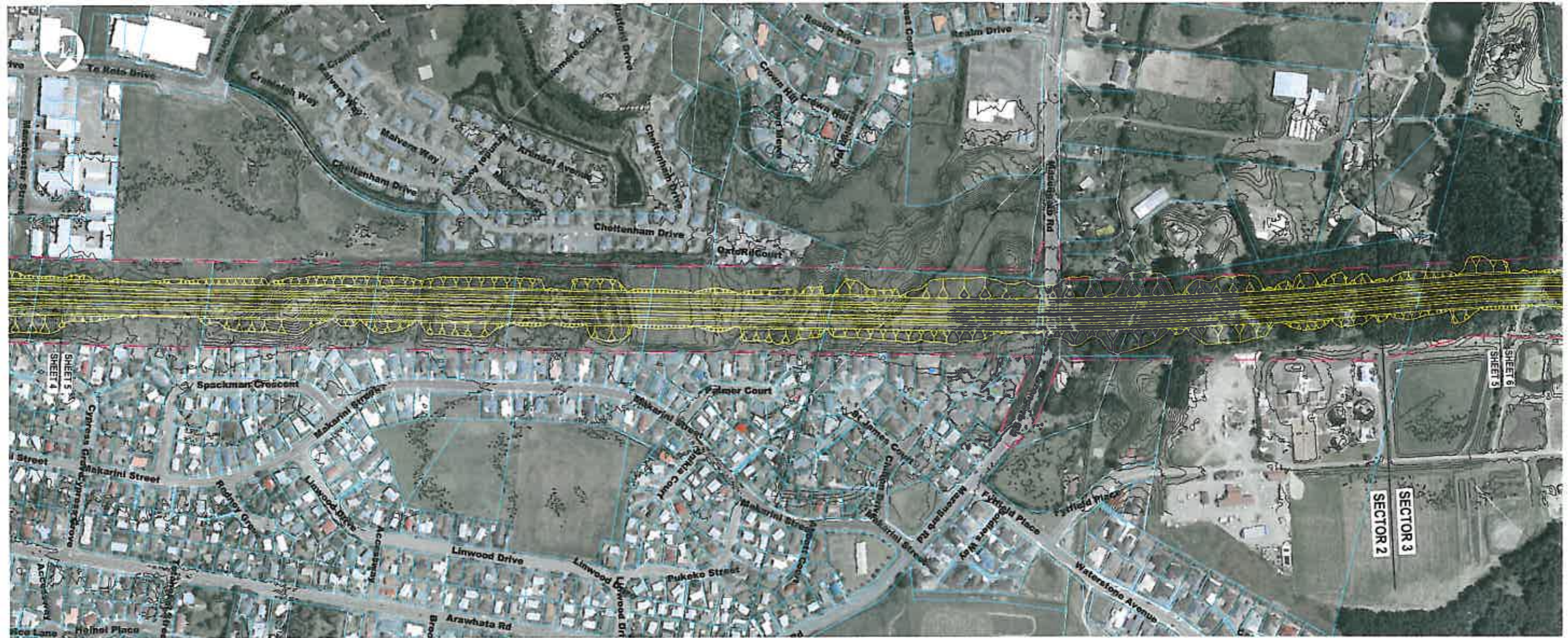


Mackays to Peka Peka

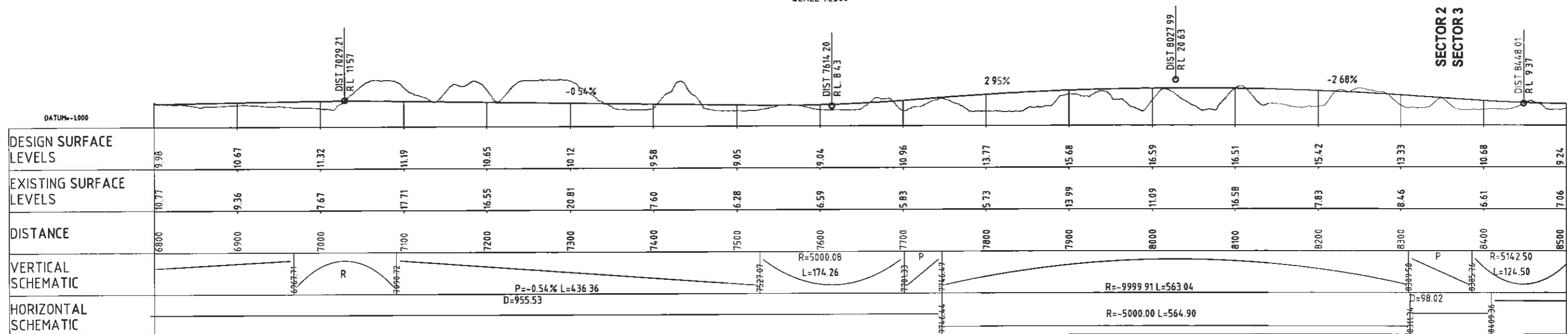
Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S2B1
SHEET 4

Discipline: CIVIL
Drawing No: 3320901-CK284
Rev: A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

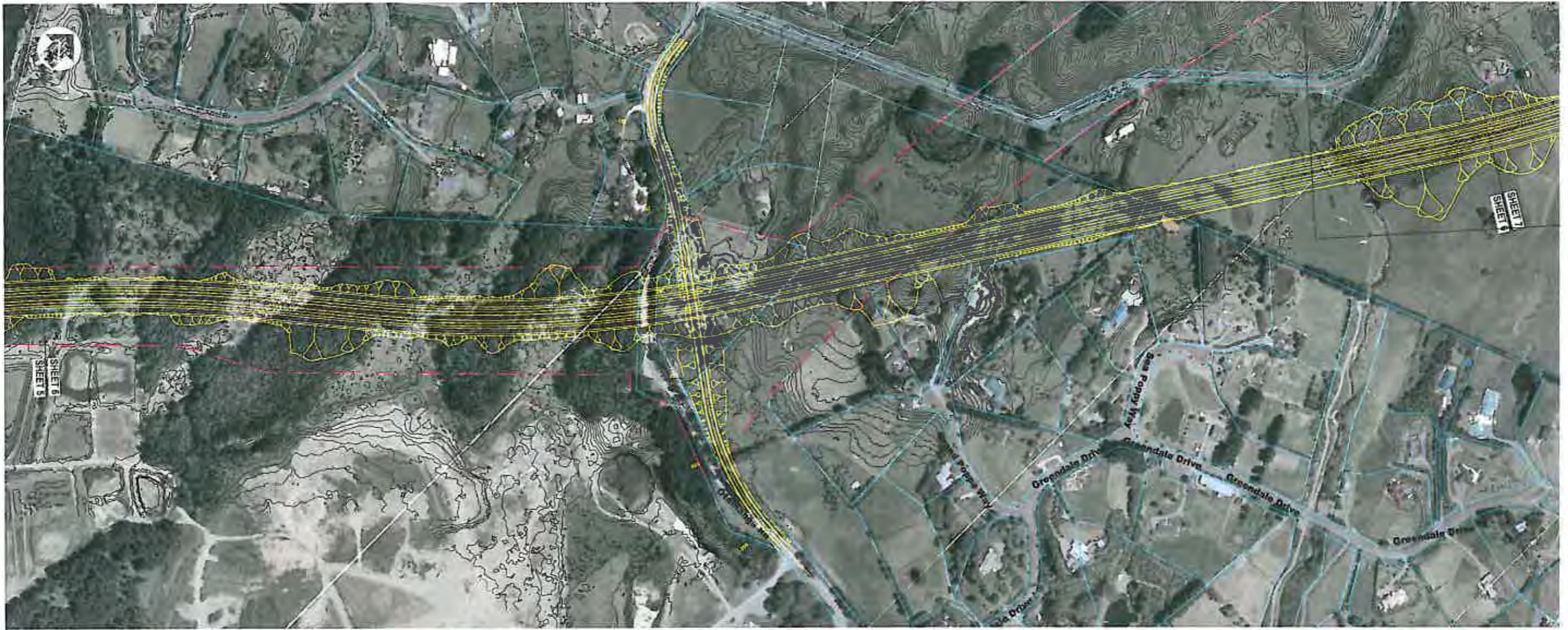
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Date	12/08/10				

NZ TRANSPORT AGENCY
Mackays to Peka Peka

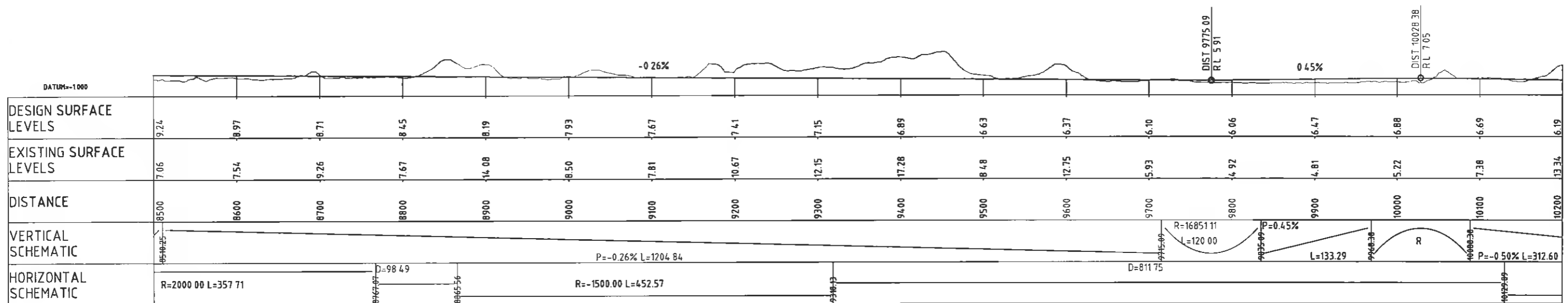
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MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: **EXPRESSWAY PLAN & LS**
BASE OPTION 3
SHEET 5

Discipline: **CIVIL**
Drawing No.: **3320901-CK285**
Rev: **A**



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 12500 VERT = 11000

DRAFT
FOR INFORMATION

Original Scale (A1)	Design	SJP	12 08 10	Approved For
1:2500, 1:1000	Drawn	SY	12 08 10	10000*
Revised Scale (A3)	Dwg. Verifier			
1:5000, 1:2000	Dwg. Check			
	By	Chk	Date	



Mackays to Peka Peka

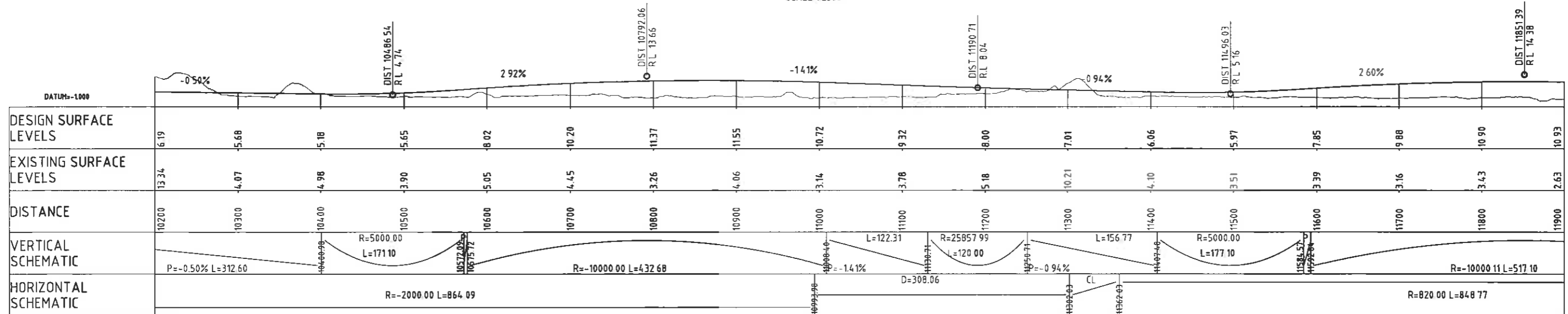
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MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S3E
SHEET 6

Discipline	CIVIL
Drawing No	3320901-CK286
Rev	A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1)	Design Drawn	SJP	12/08/10	Approved for Issue*
1:2500, 1:1000	SY		12/08/10	
Reduced Scale (A3)	Disg. Verifier			
1:5000, 1:2000	Dwg. Check			
	* Refer to Revision 1 for Original Signature			



Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

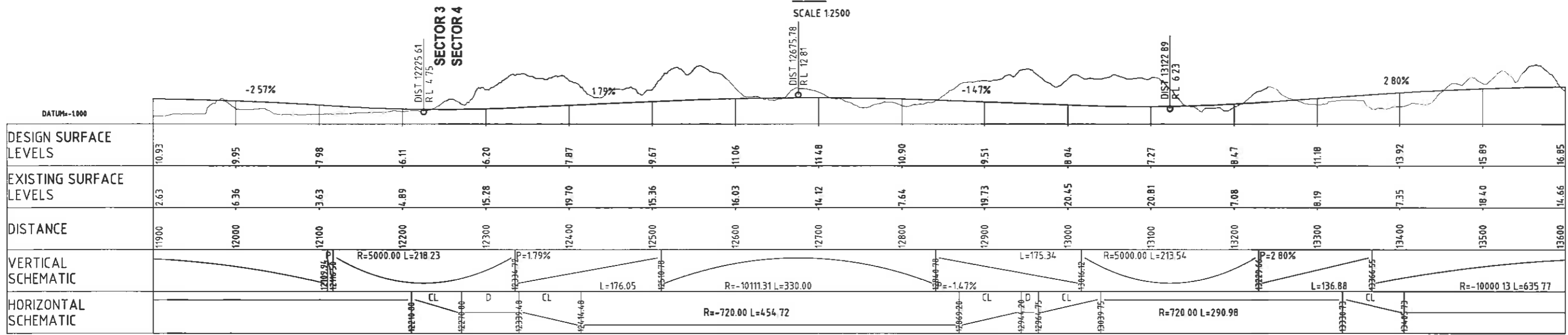
Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S3E
SHEET 7

Discipline	CIVIL
Drawing No	3320901-CK287
Rev	A



PLAN

SCALE 1:2500



LONGSECTION

SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

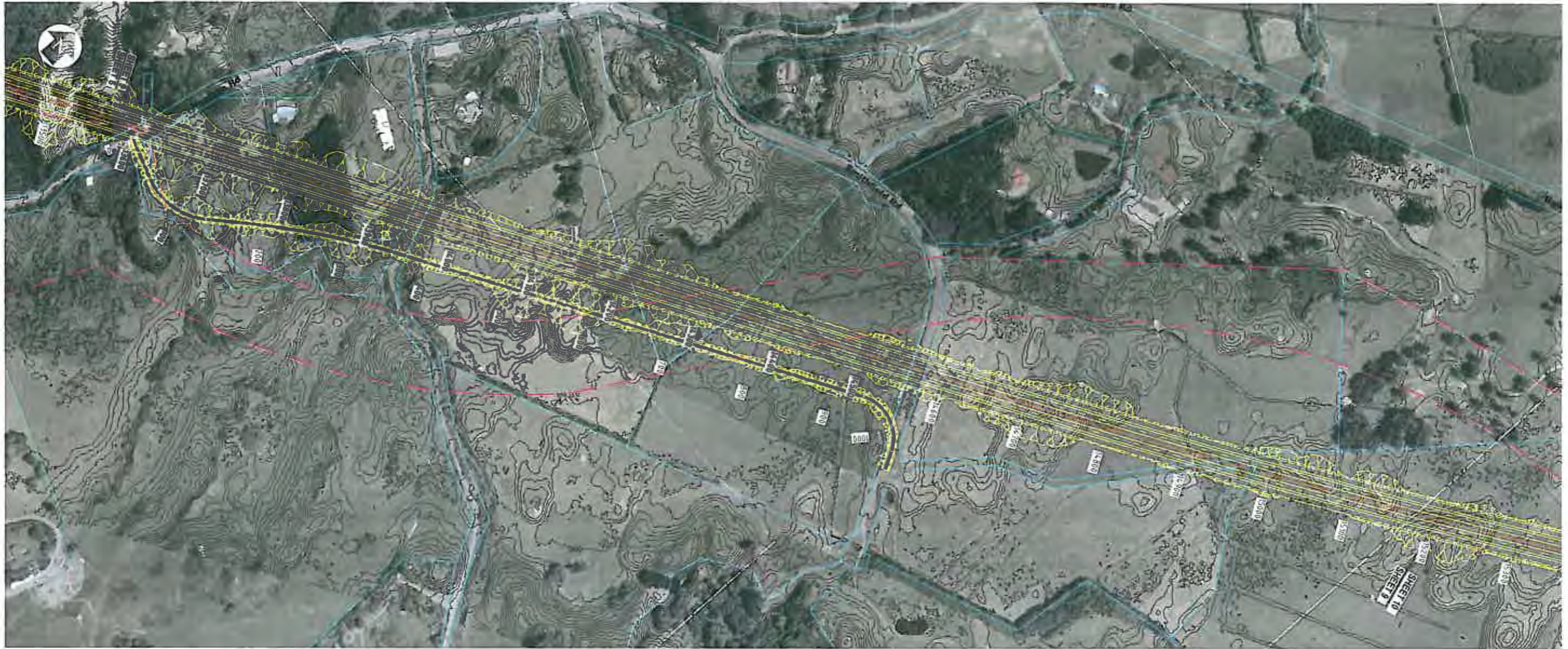
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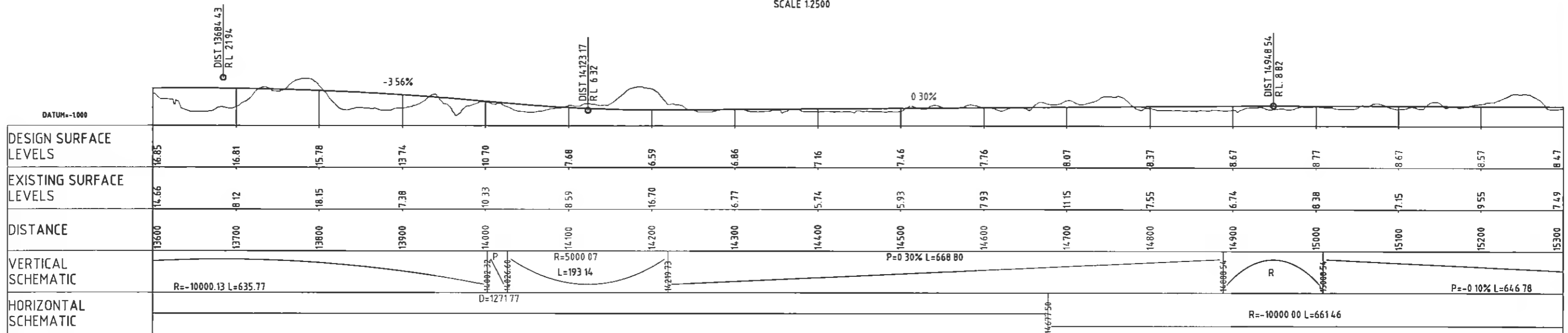
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MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S4F
SHEET 8

Discipline: CIVIL
Drawing No: 3320901-CK288
Rev: A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1)	Design	SJP	12.08.10	Approved For Issue*
1:2500, 1:1000	Drawn	SY	12.08.10	
Reduced Scale (A3)	Dwg. Verifier			
1:5000, 1:2000	Dwg. Check			
* Refer to Revision 1 for Original Signature				



Mackays to Peka Peka

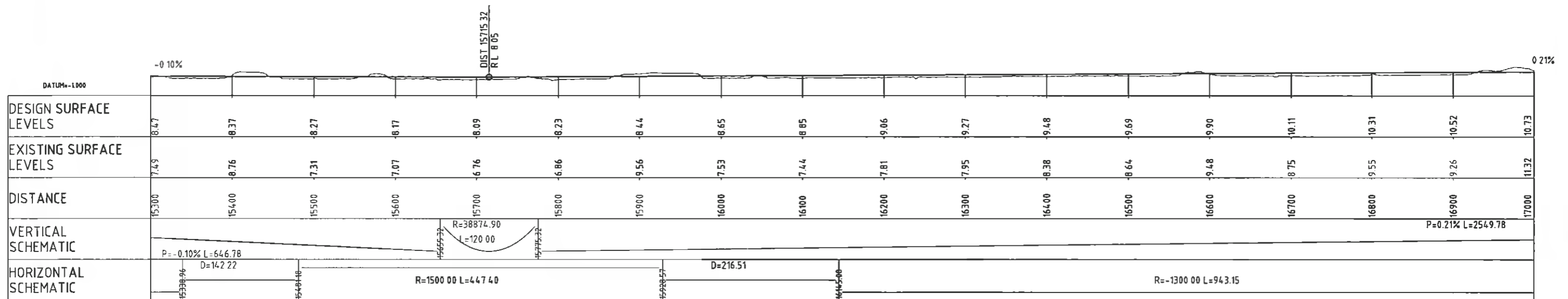
Project
**SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

Title
**EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S4F
SHEET 9**

Discipline
CIVIL
Drawing No
3320901-CK289
Rev
A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HDRIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 12500, 11000	Design Drawn SJP SY	12 08 10	Approved for Issue
Reduced Scale (A3) 15000, 12000	Design Checked SJP	12 08 10	Date
Refer to Revision 1 for Original Signature			



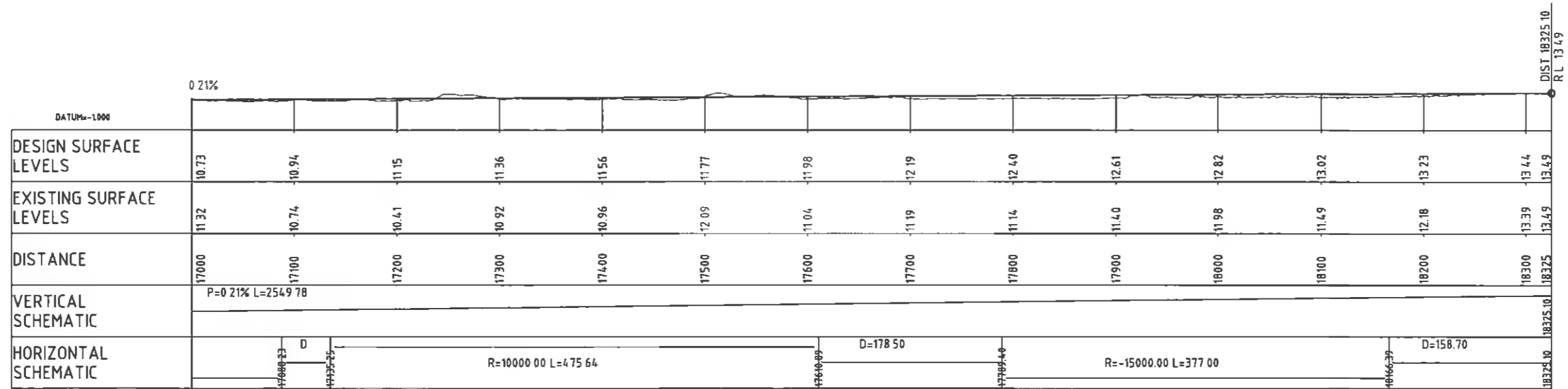
Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S4F
SHEET 10

Discipline: CIVIL
Drawing No: 3320901-CK290
Rev: A



PLAN
SCALE 1:2500



LONGSECTION
SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1) 1:2500, 1:1000	Design Drawn SY	SJP	12/08/10	Approved For Issue*
Reduced Scale (A3) 1:5000, 1:2000	Design Checked MHW	SJP	7/26/10	Date
* Refer to Revision 1 for Original Signature				

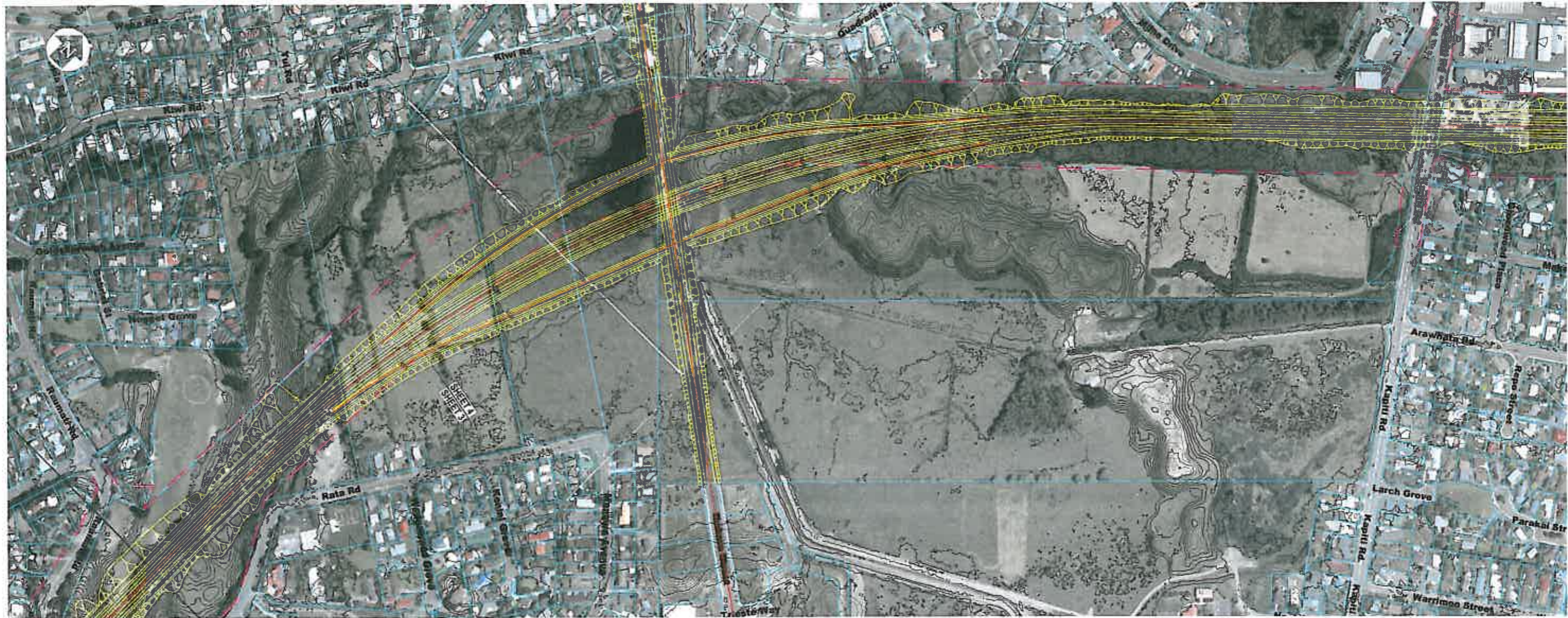


Mackays to Peka Peka

Project
**SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00**

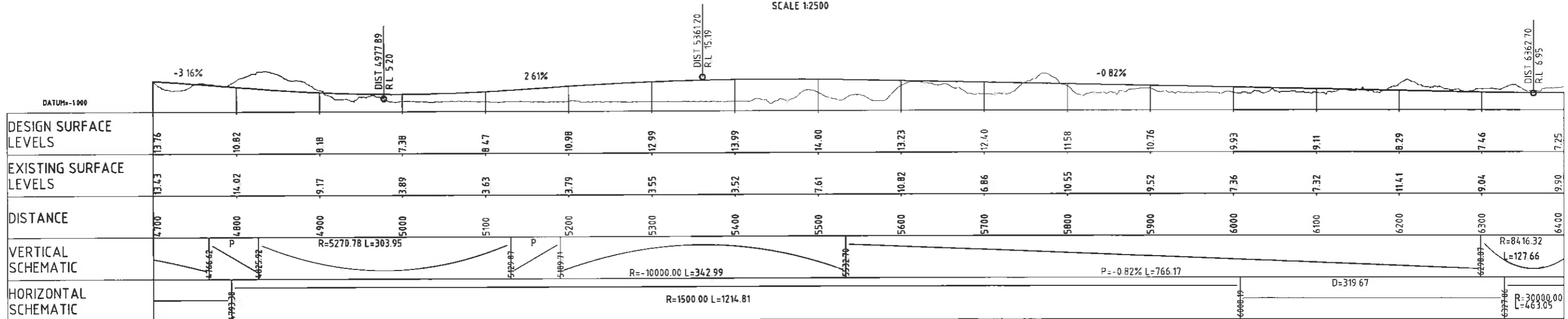
Title
**EXPRESSWAY PLAN & LS
BASE OPTION 3-SUBOPTION S4F
SHEET 11**

Discipline
CIVIL
Drawing No
3320901-CK291
Rev
A



PLAN

SCALE 1:2500



LONGSECTION

SCALE HORIZ = 1:2500 VERT = 1:1000

DRAFT
FOR INFORMATION

Original Scale (A1)	Design	SJP	12 08 10	Approved For Issue*
1:2500, 1:1000	Drawn	SY	12 08 10	
Reduced Scale (A3)	Dwg Verifier			
1:5000, 1:2000	Dwg Check			
	Date			



Project: SH1 REALIGNMENT
MACKAYS TO PEKA PEKA
RP 1012/0.00 TO 1023/5.00

Title: EXPRESSWAY PLAN & LS
BASE OPTION 3B-SUBOPTION S2B1
SHEET 1
Discipline: CIVIL
Drawing No: 3320901-CK292
Rev: A