

HAD 22m																								
DESIGN																								
OFFSET																								
EXISTING	26.09	26.00	26.00	25.72	25.62	25.50	25.50	25.50	24.52	24.63	24.73	24.63	24.73	24.63	24.73	25.21	25.00	24.80	24.50	24.43	24.00	24.00	23.80	23.71

150m

HAD 22m																									
DESIGN																									
OFFSET																									
EXISTING	26.00	25.97	25.96	25.92	25.50	25.50	25.50	25.50	24.57	24.67	24.78	24.67	24.78	24.67	24.78	25.00	25.00	24.87	24.50	24.50	24.50	24.45	24.38	24.28	24.00

100m

HAD 22m																									
DESIGN																									
OFFSET																									
EXISTING	25.29	25.23	25.24	25.18	25.14	25.12	25.11	25.00	25.00	25.00	25.00	24.61	24.72	24.82	24.72	24.82	24.62	24.65	24.63	24.50	24.43	24.13	24.07	24.00	23.97

50m

HAD 22m																								
DESIGN																								
OFFSET																								
EXISTING	25.00	25.00	25.00	24.79	24.50	24.50	24.50	24.50	24.66	24.77	24.87	24.66	24.77	24.87	24.67	24.67	24.35	24.00	24.00	24.00	24.00	24.00	23.75	23.74

0m

HAD 14m																									
DESIGN																									
OFFSET																									
EXISTING	25.10	25.00					24.73	24.65	24.62	24.50	24.50	24.50	24.50	24.44	24.53	24.42	24.02	24.00	23.64	23.50	23.30	23.21	23.14	23.09	23.00

350m

HAD 21m																								
DESIGN																								
OFFSET																								
EXISTING	25.90	25.38	25.35	25.24	25.00	25.00	24.87	24.75	24.67	24.50	24.50	24.50	24.38	24.49	24.59	24.39	23.81	23.74	23.65	23.64	23.55	23.50	23.45	23.44

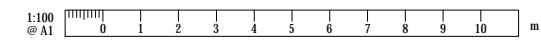
300m

HAD 23m																								
DESIGN																								
OFFSET																								
EXISTING	26.35	26.06	26.00	26.00	25.82	25.50	25.01	25.00	24.43	24.53	24.64	24.64	24.53	24.64	24.64	25.00	25.00	24.85	24.81	24.72	24.50	24.50	24.50	24.41

250m

HAD 22m																								
DESIGN																								
OFFSET																								
EXISTING	26.41	26.38	26.27	26.24	26.20	26.00	26.00	25.87	25.84	25.72	25.60	25.50	25.50	25.48	24.48	24.58	24.69	25.00	25.00	25.00	24.85	24.83	24.72	24.69

200m



Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

NZ TRANSPORT AGENCY
MAKA MOHAKI

OPUS URS
Holmes & Narayn Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

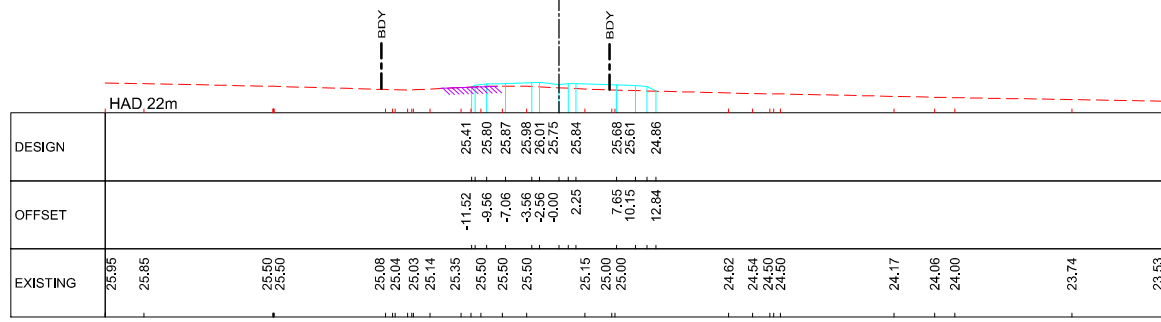
Project No. 5C1814.00 Scale 1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

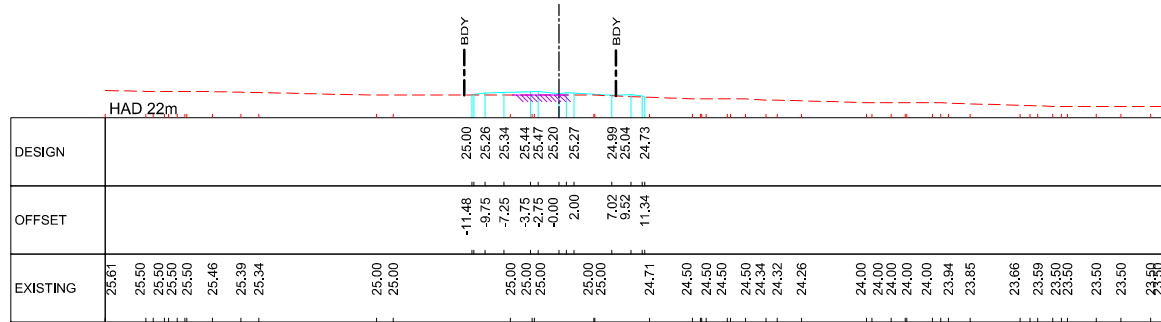
Sheet
Cross Sections
Change 0 to 350m

Sheet No.	Revision
GM30	R1

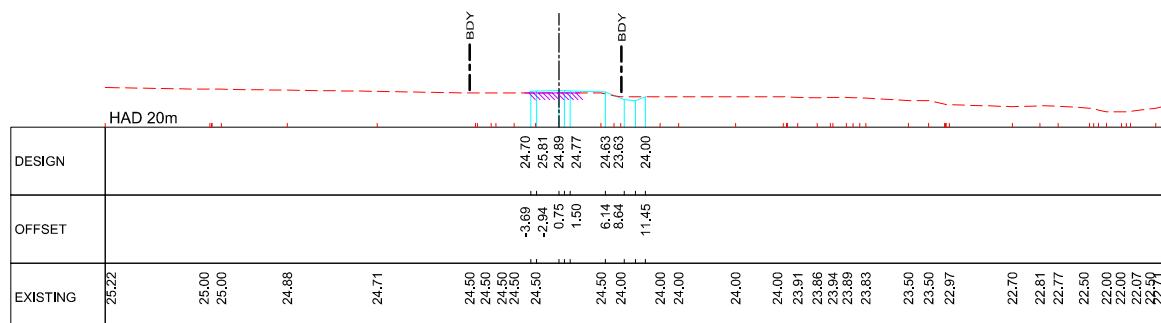
0 10 20 30 40 50 60 70 80 90 100 200 300 mm



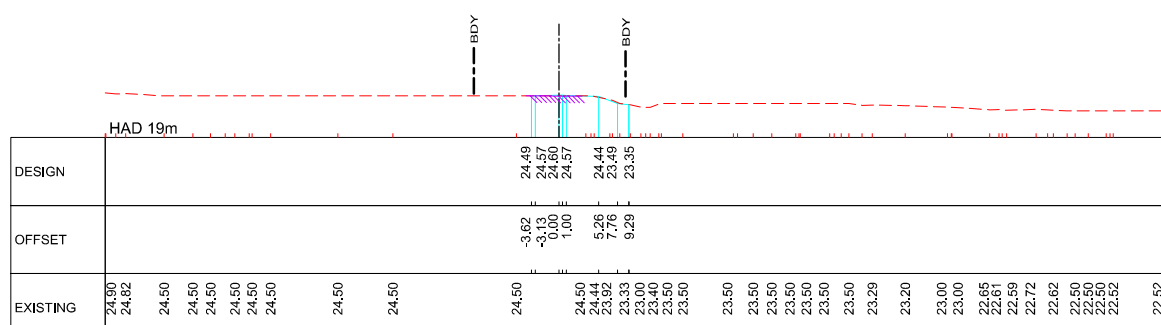
550m



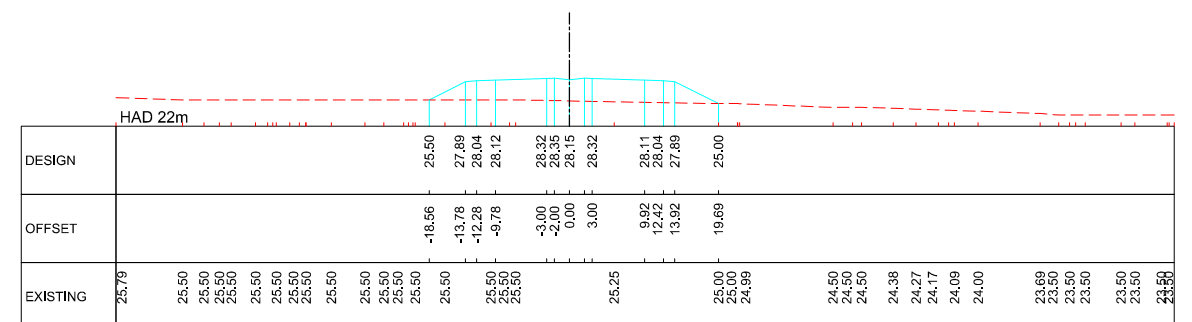
500m



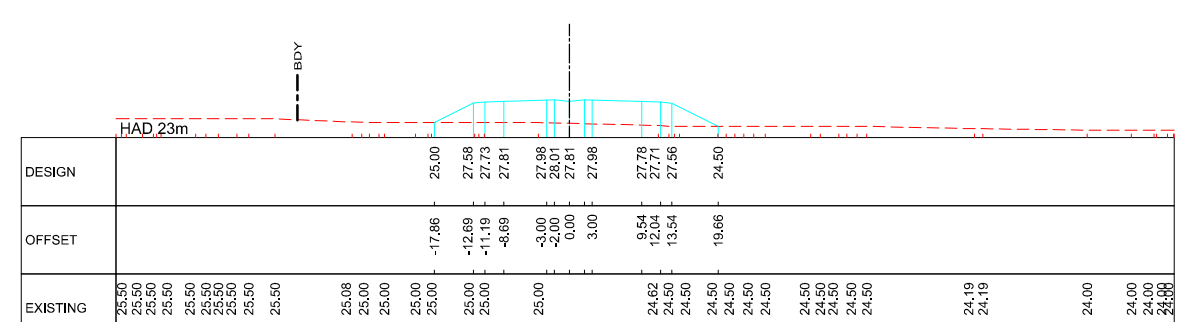
450m



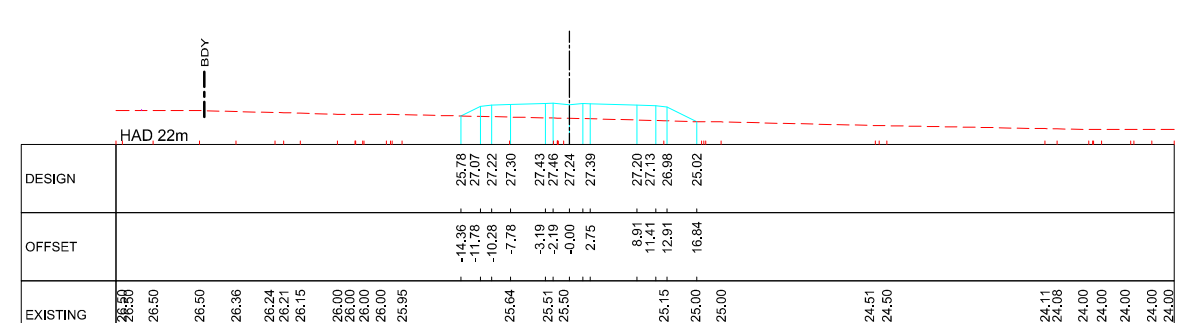
400m



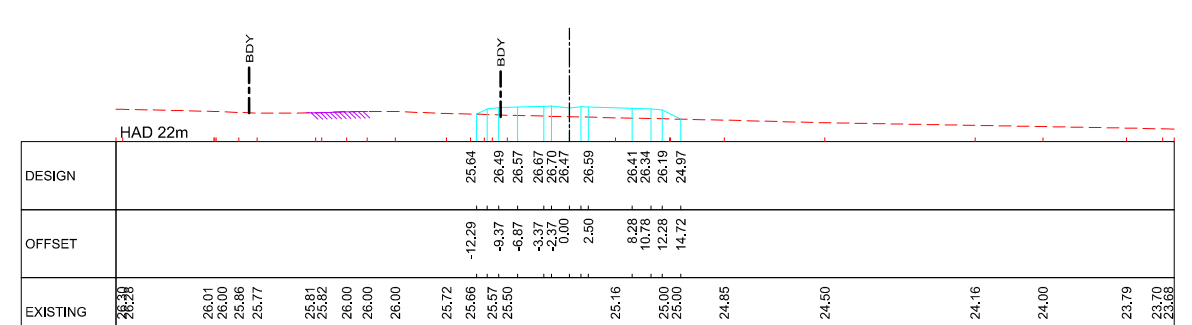
750m



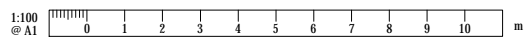
700m



650m



600m



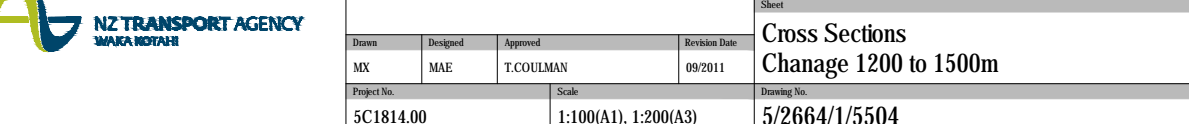
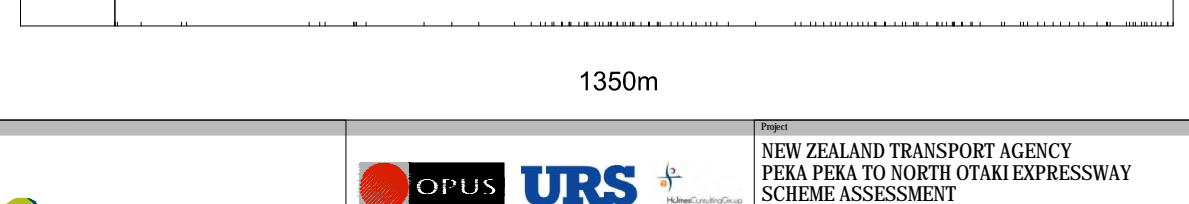
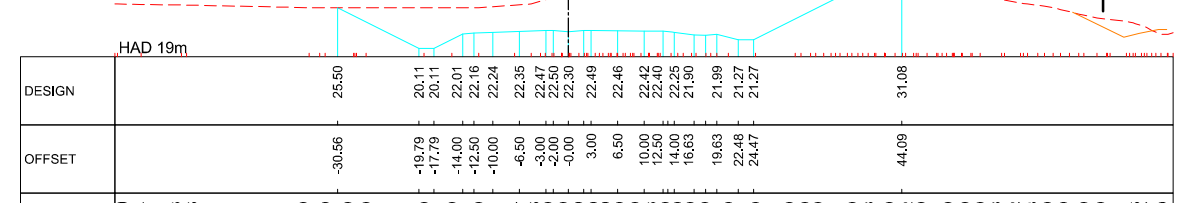
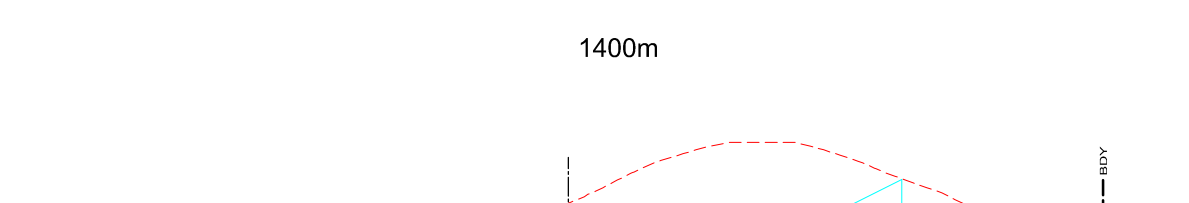
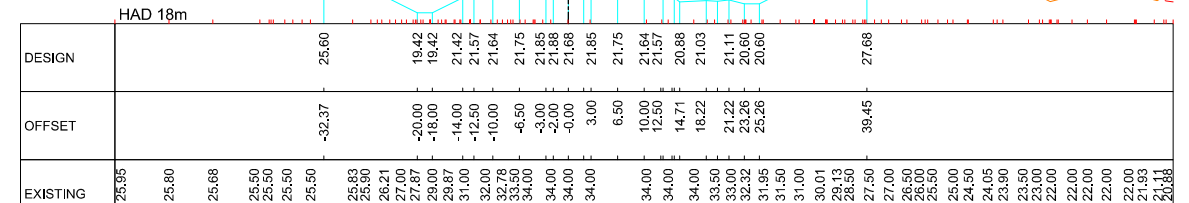
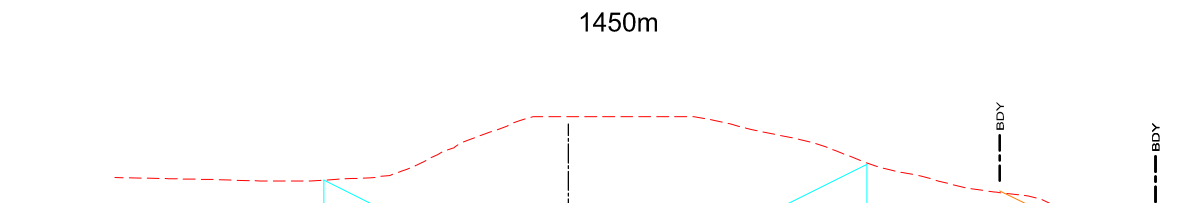
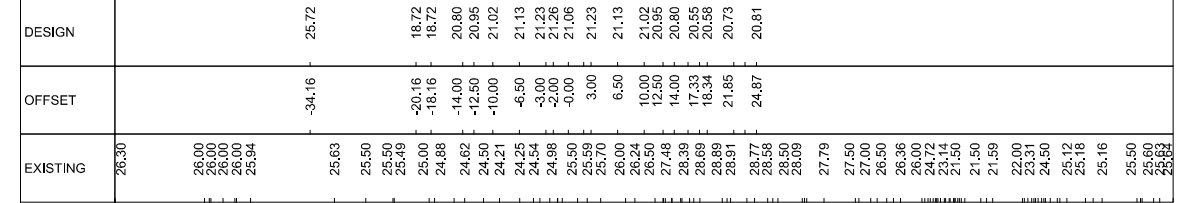
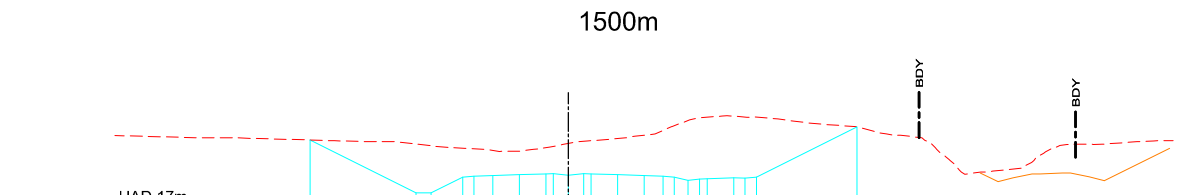
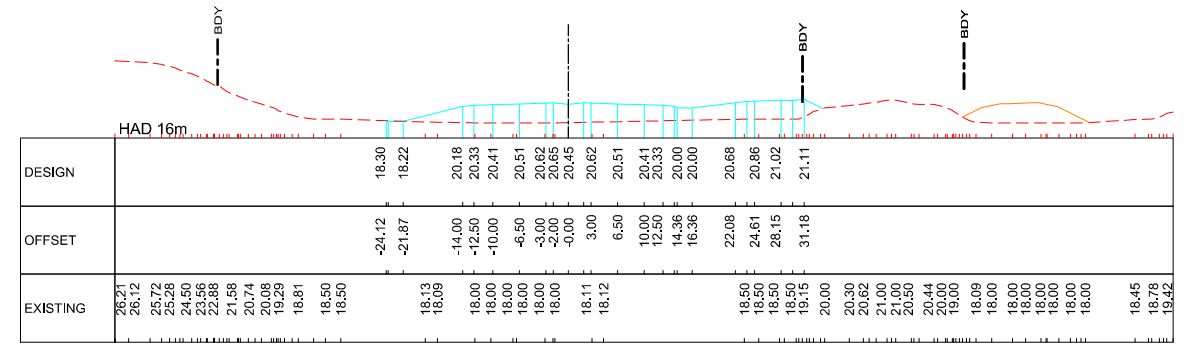
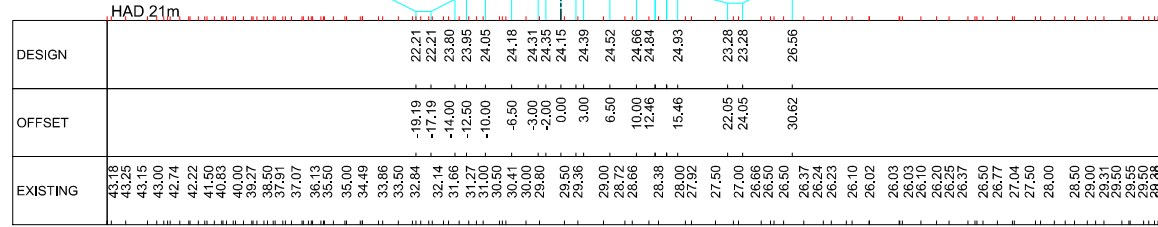
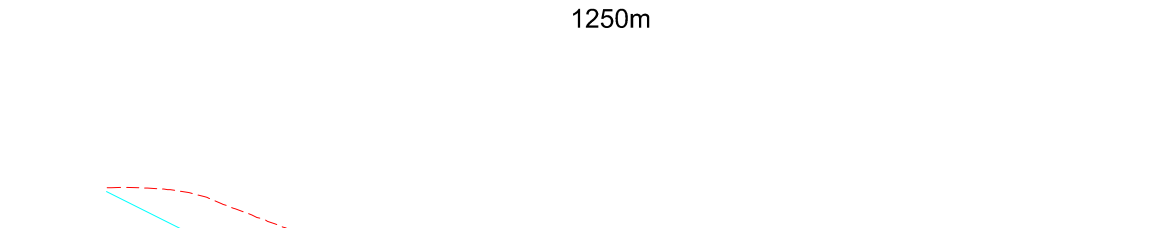
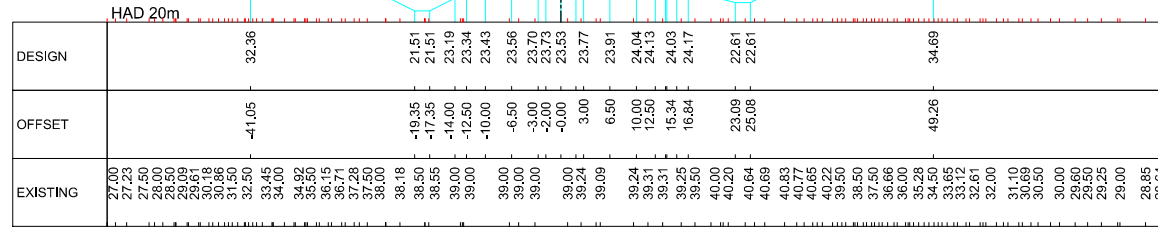
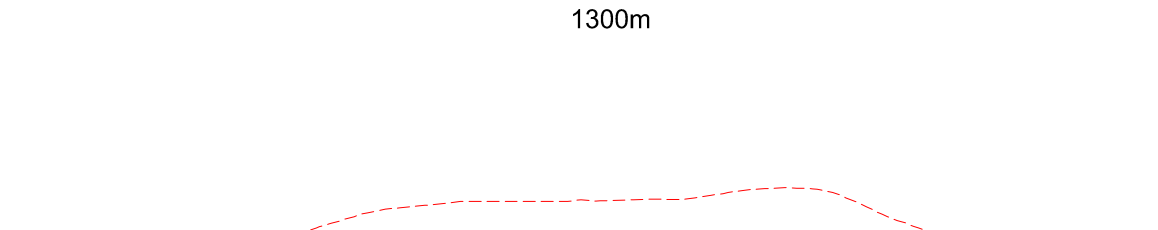
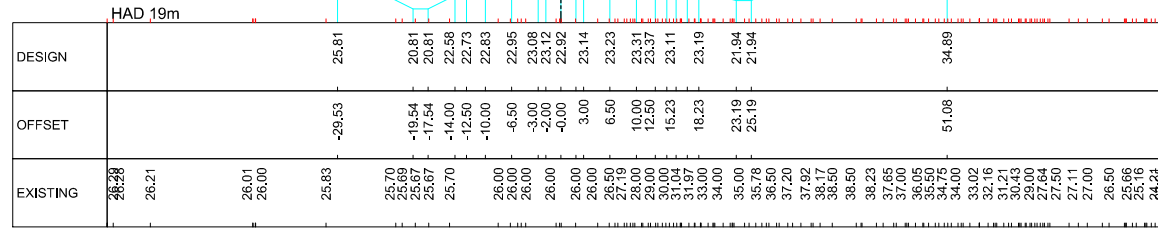
Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Project			
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT			
Sheet			
Cross Sections Change 400 to 750m			
Project No.	Scale	Drawing No.	
5C1814.00	1:100(A1), 1:200(A3)	5/2664/1/5504	
		Sheet No.	Revision
		GM31	R1

0 10 mm 50 100 200 300 mm



1:100 @ A1

Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

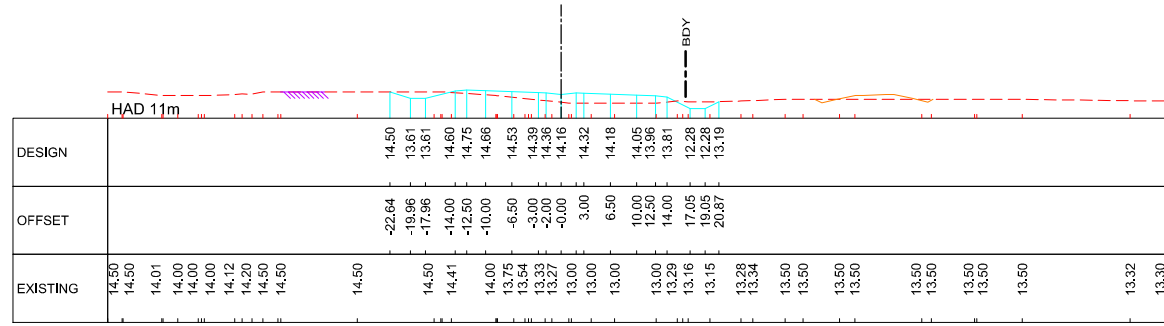


Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

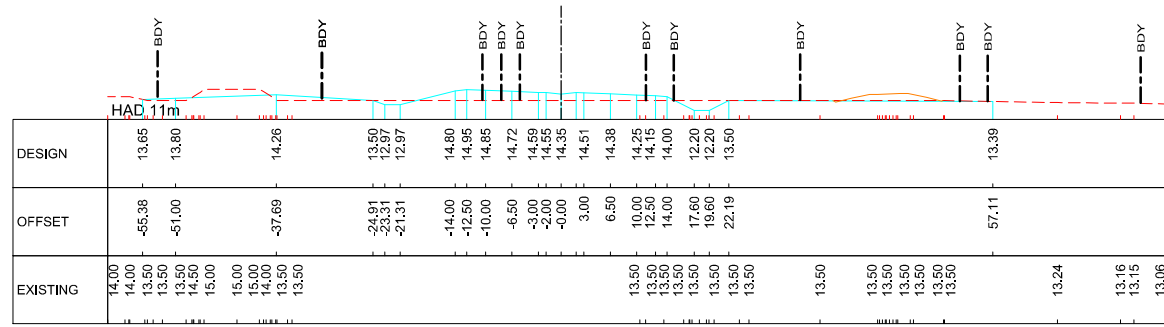
Project No. 5C1814.00	Scale 1:100(A1), 1:200(A3)	Drawing No. 5/2664/1/5504
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Project NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT			
Sheet Cross Sections Change 1200 to 1500m			
Sheet No. GM33	Revision R1		

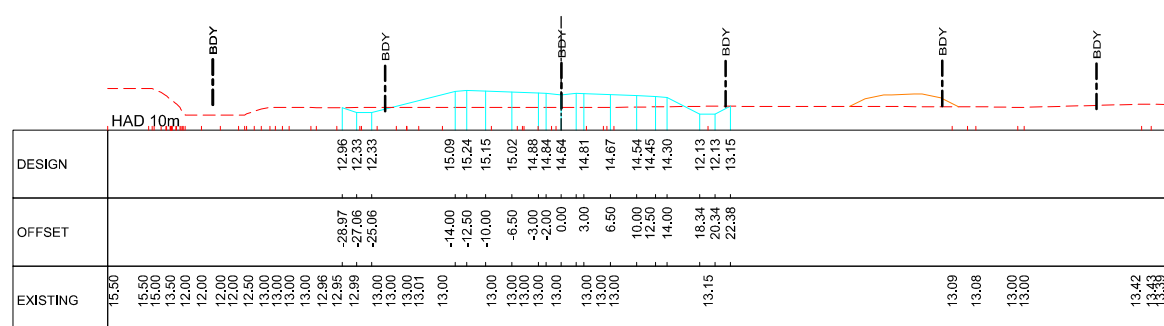
0 10 mm 50 100 200 300 mm



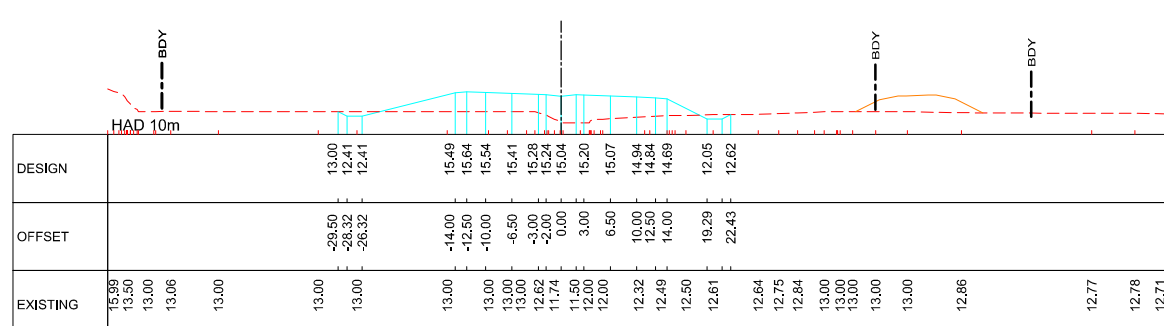
2100m



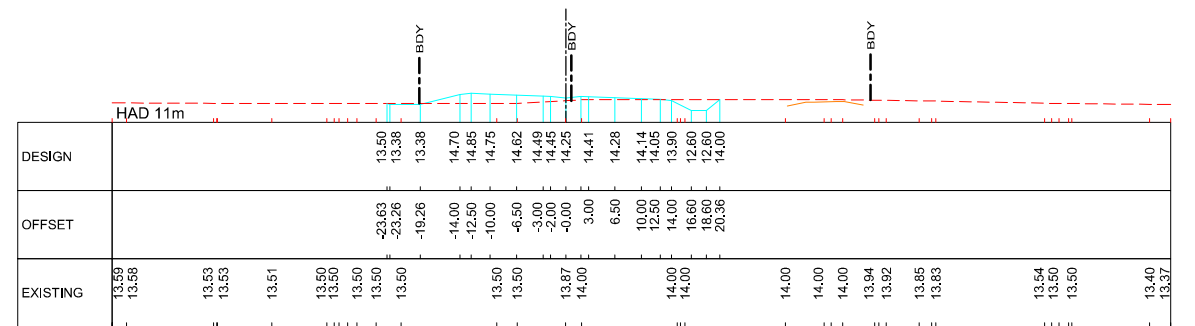
2050m



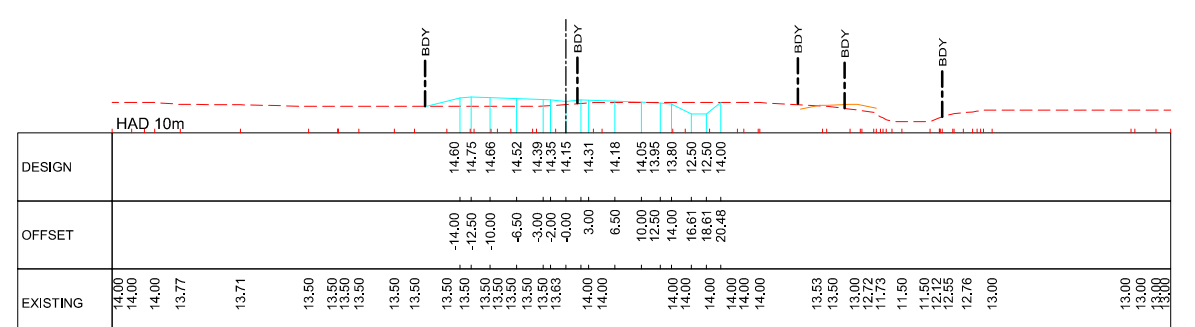
2000m



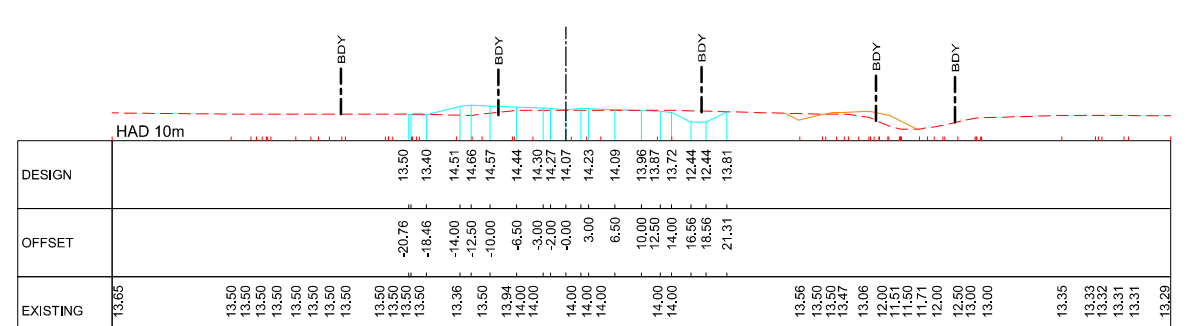
1950m



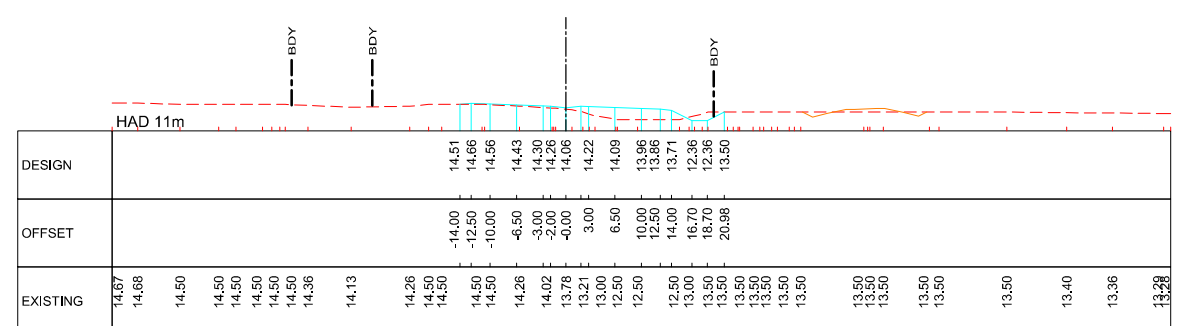
2300m



2250m



2200m



2150m

1:100 @ A1

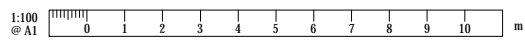
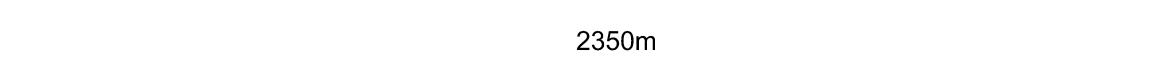
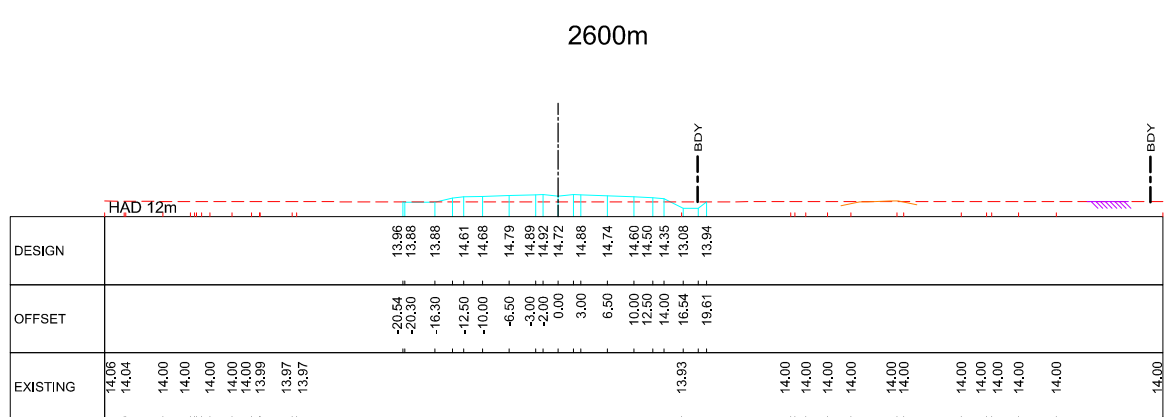
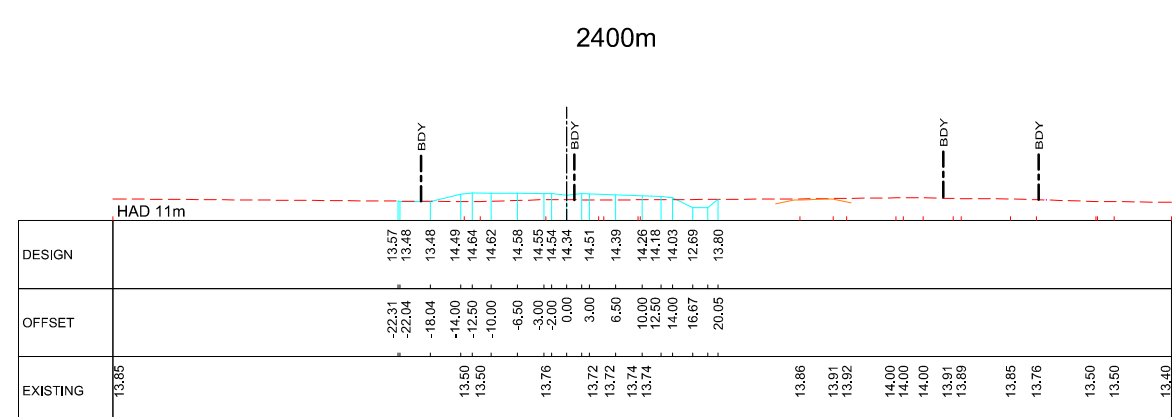
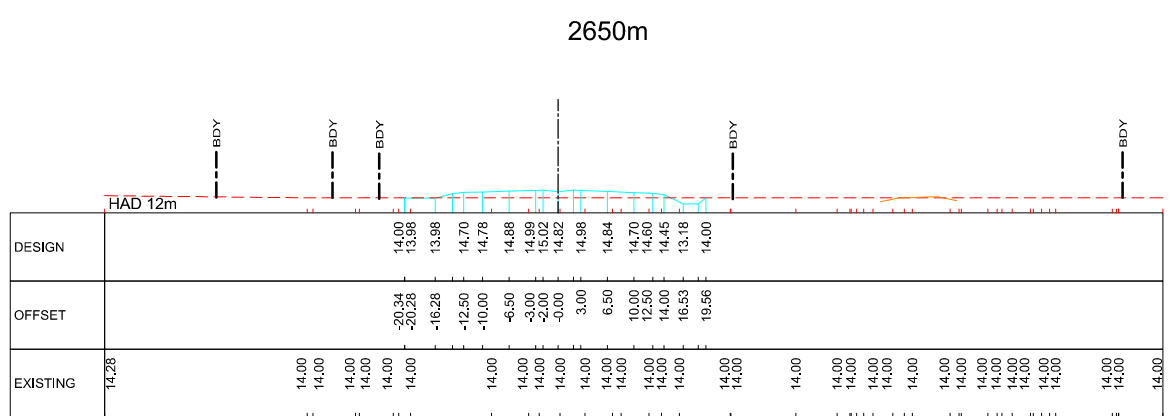
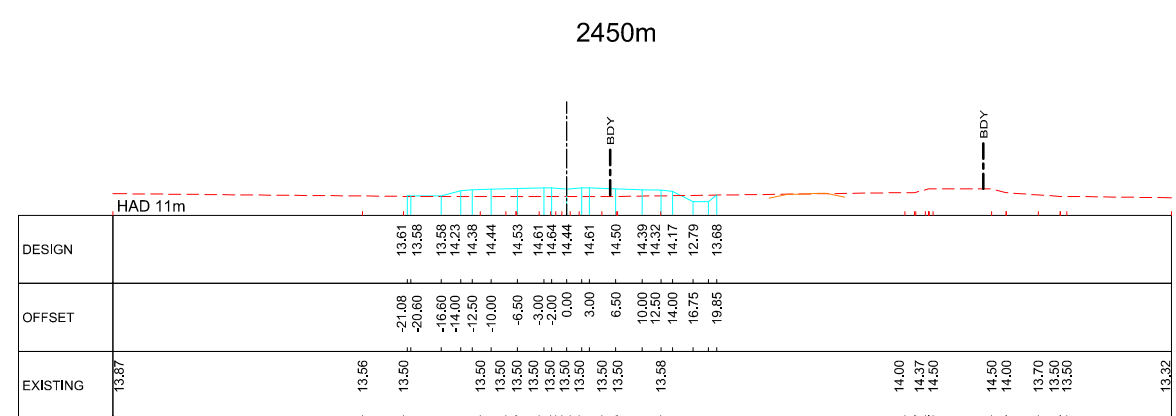
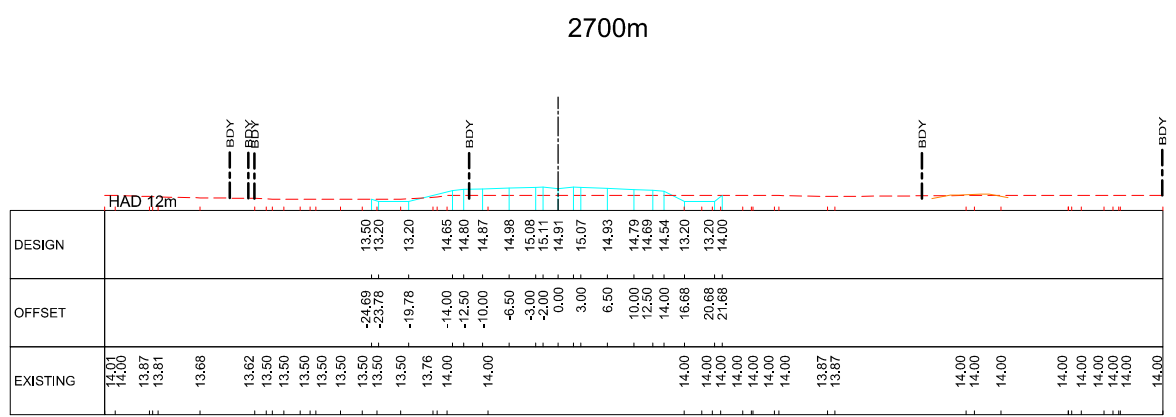
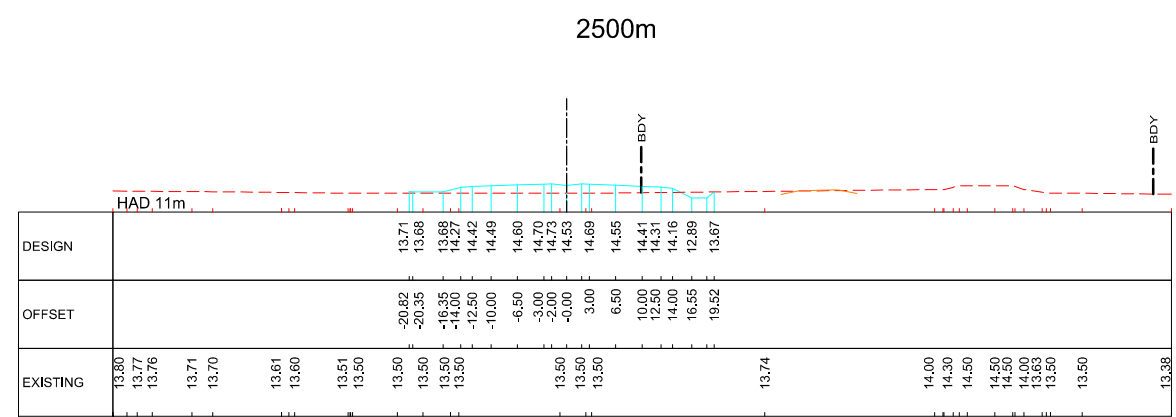
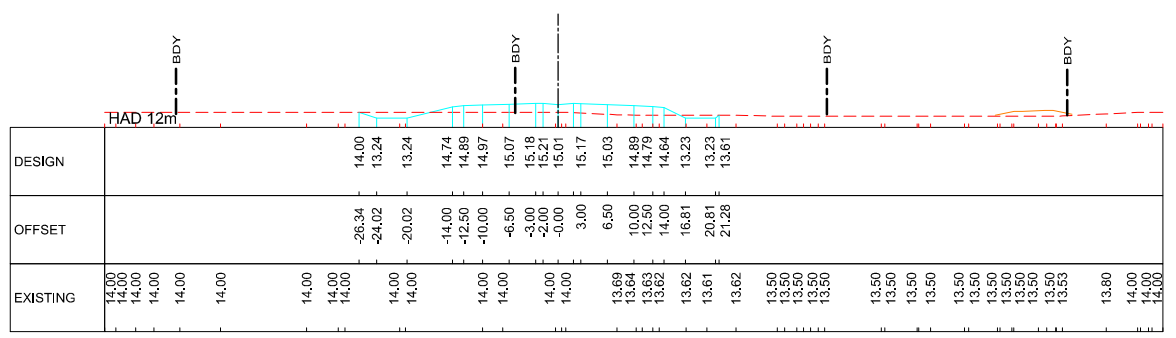
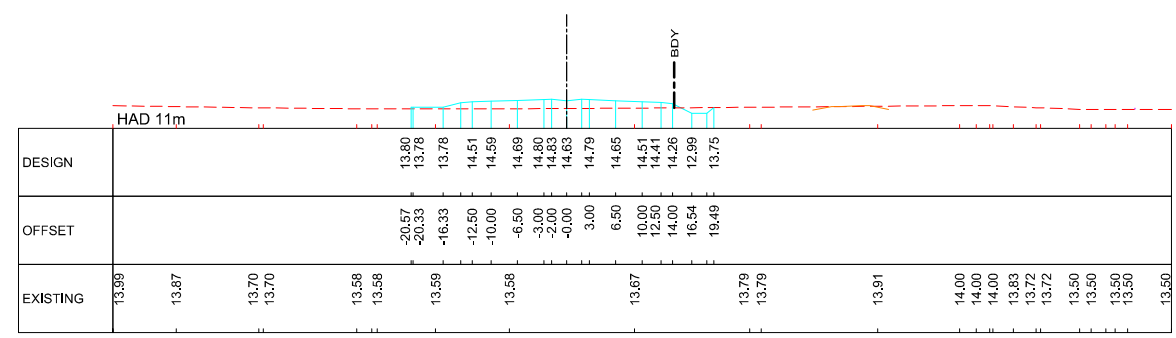
Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project	
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet	
Cross Sections Change 1950 to 2300m	
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)
Drawing No.	Revision
5/2664/1/5504	GM35 R1



Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Cross Sections
Change 2350 to 2700m

Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Drawing No.	Sheet No.	Revision
5/2664/1/5504	GM36	R1

300 mm
200
100
50
0 10 mm
m

HAD 12m		
DESIGN	14.00	13.38
OFFSET	-26.85	-24.96
EXISTING	14.24	13.50

2900m

HAD 12m		
DESIGN	14.00	13.34
OFFSET	-26.72	-24.73
EXISTING	14.00	13.50

2850m

HAD 12m		
DESIGN	14.00	13.31
OFFSET	-26.89	-24.49
EXISTING	14.00	13.50

2800m

HAD 12m		
DESIGN	14.00	13.27
OFFSET	-26.46	-24.26
EXISTING	14.00	13.50

2750m

HAD 12m		
DESIGN	14.00	13.38
OFFSET	-26.85	-24.96
EXISTING	14.24	13.50

3100m

HAD 12m		
DESIGN	14.18	13.49
OFFSET	-26.51	-22.42
EXISTING	14.46	13.50

3050m

HAD 12m		
DESIGN	14.00	13.45
OFFSET	-27.40	-25.74
EXISTING	14.07	13.50

3000m

HAD 12m		
DESIGN	14.00	13.41
OFFSET	-27.03	-25.25
EXISTING	14.29	13.50

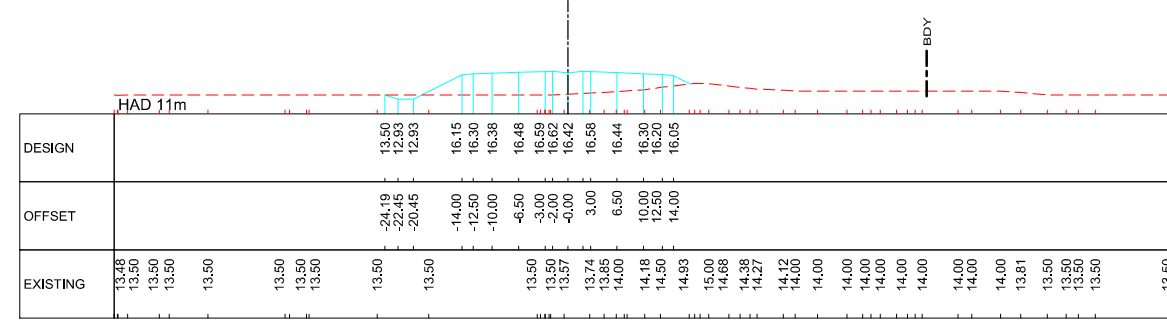
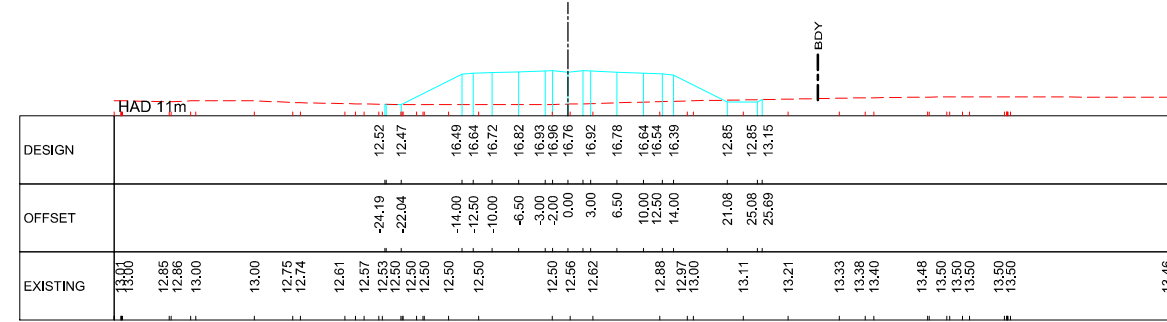
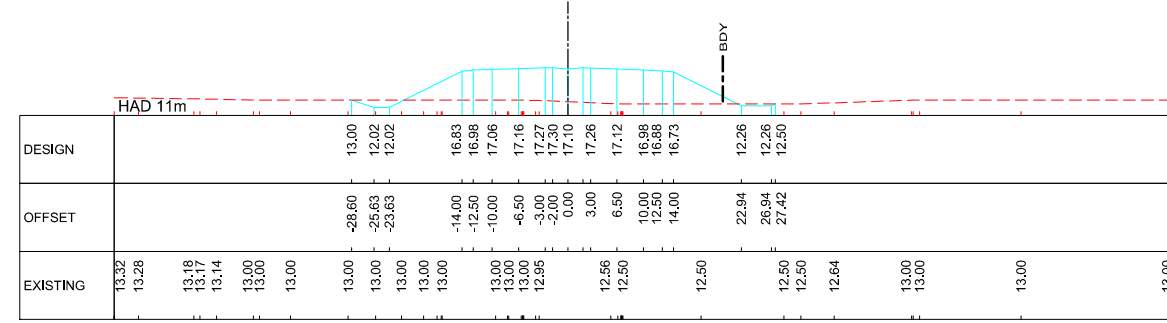
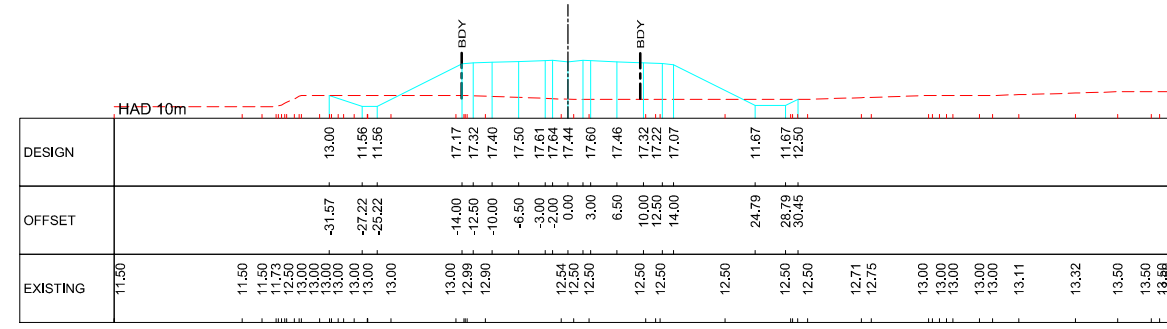
2950m

Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

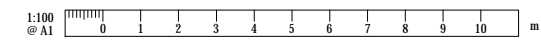
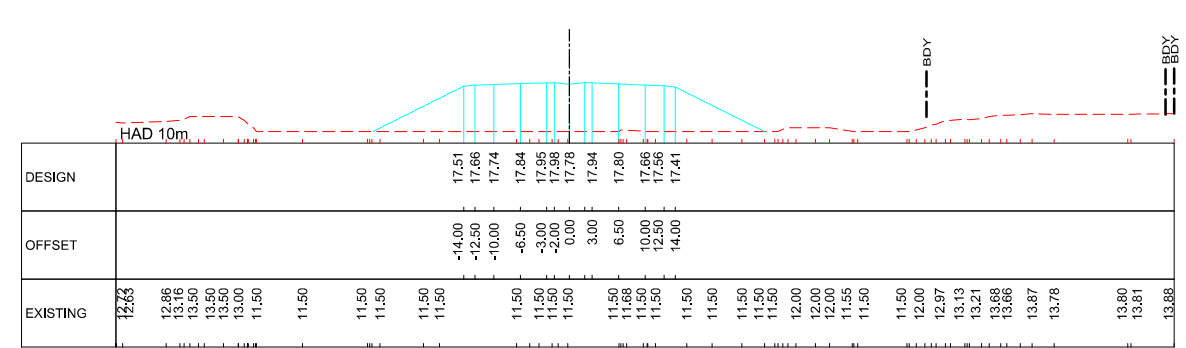
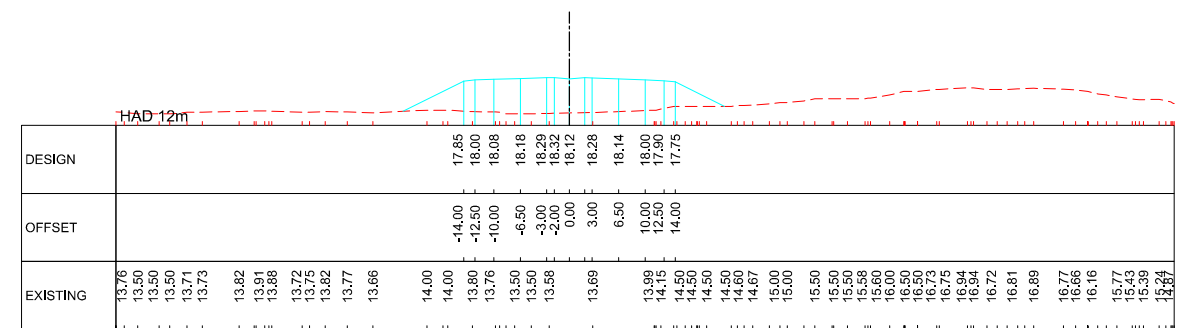
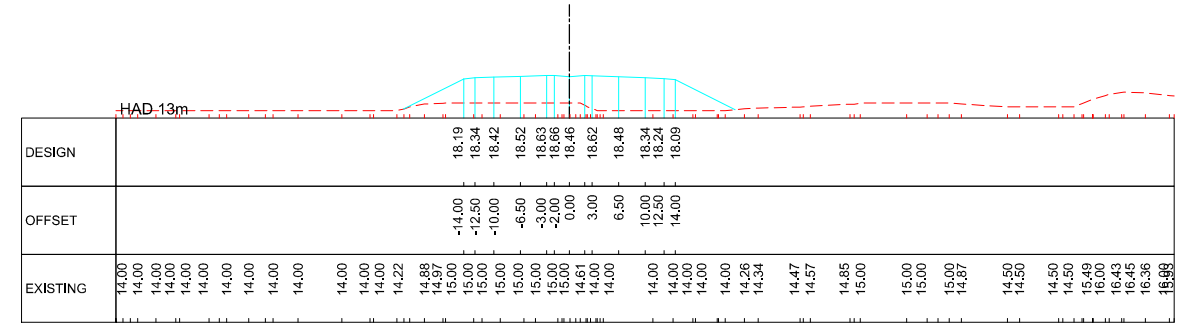
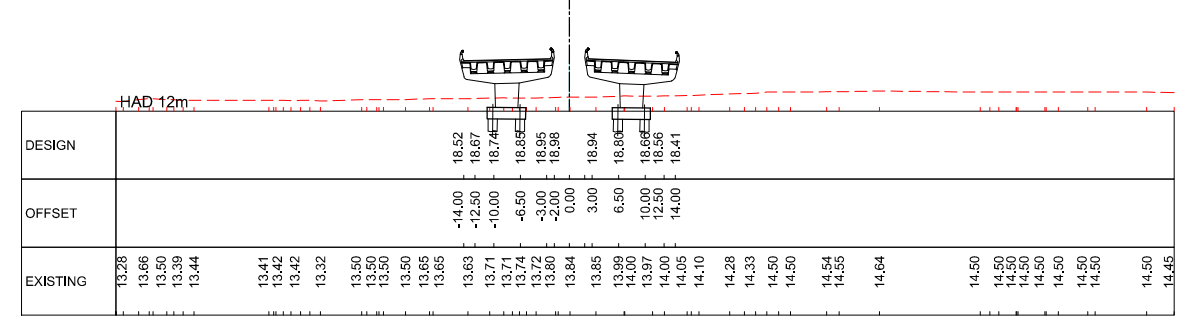


Project			
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT			
Sheet			
Cross Sections Change 2750 to 3100m			
Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011
Project No.	Scale	Drawing No.	
5C1814.00	1:100(A1), 1:200(A3)	5/2664/1/5504	
Sheet No.	Revision		
GM37	R1		

300 mm
200
100
90
10 mm



OTAKI RIVER BRIDGE



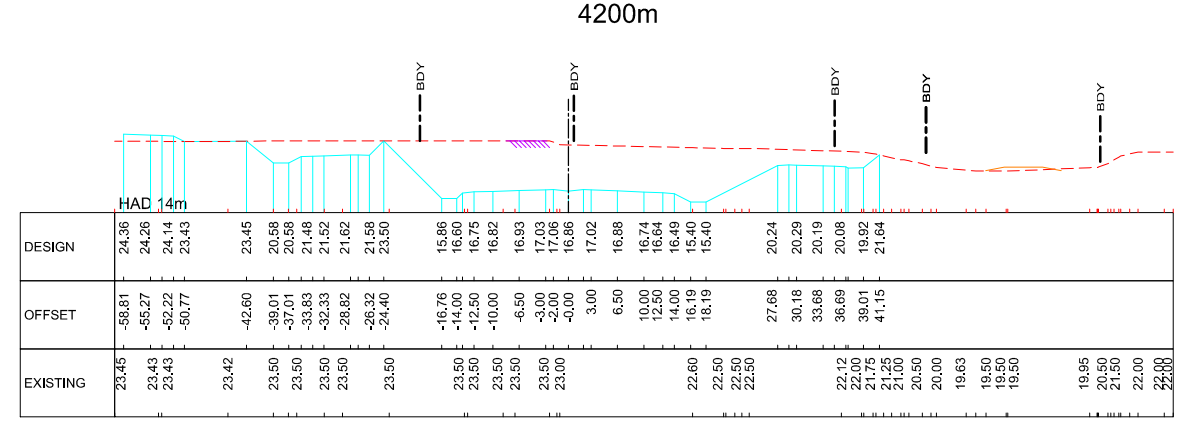
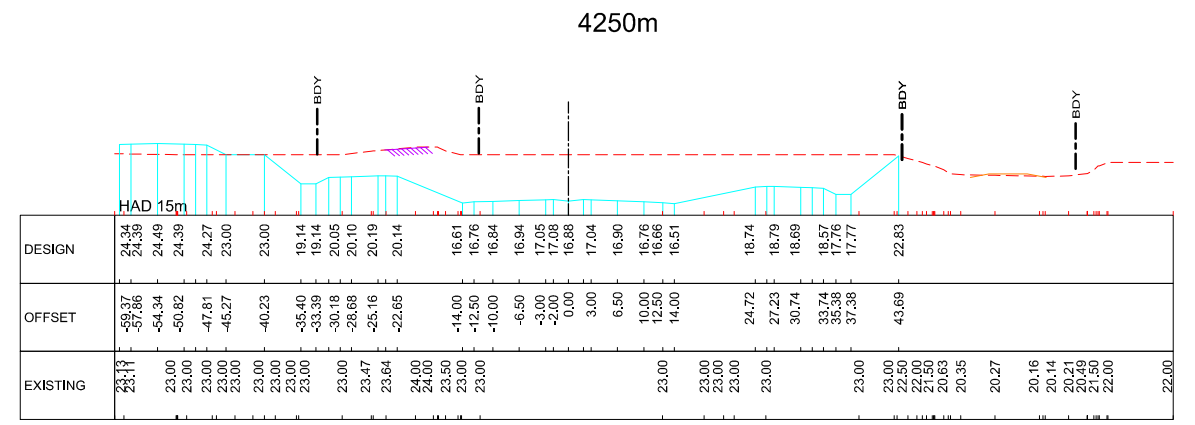
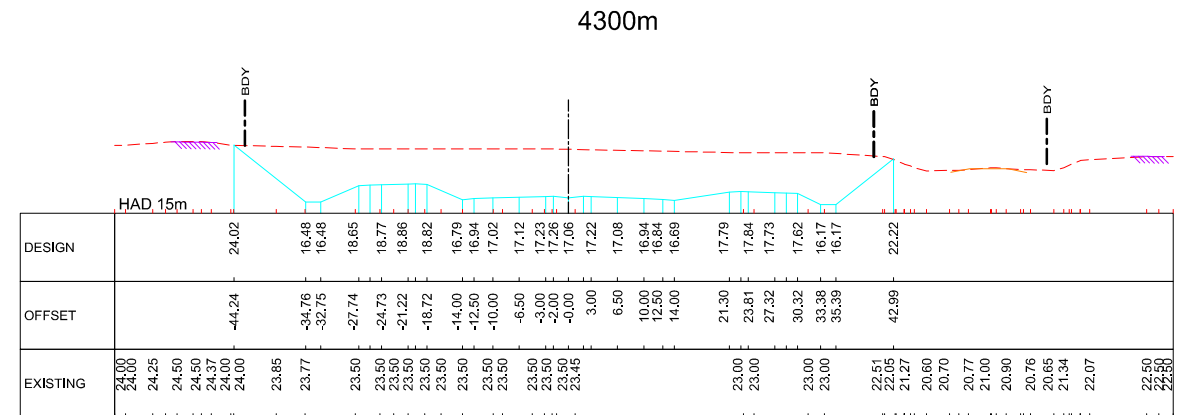
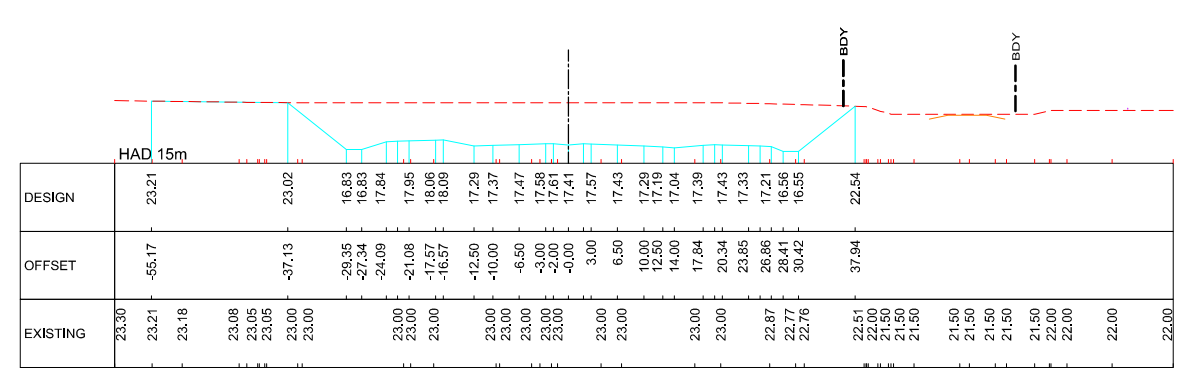
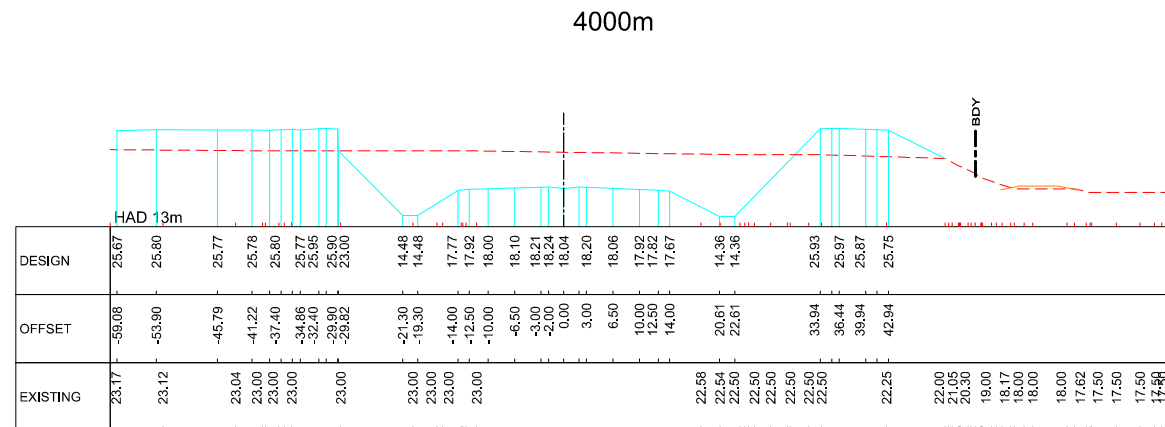
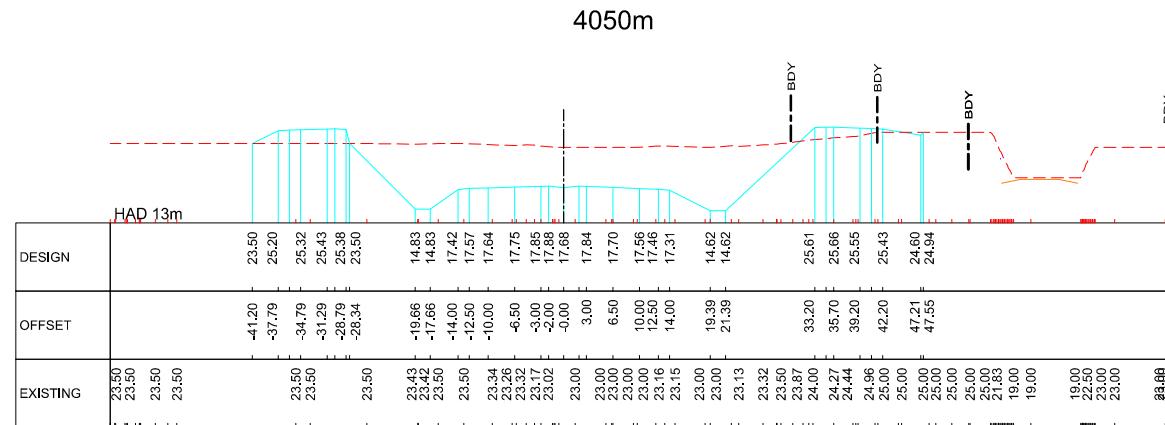
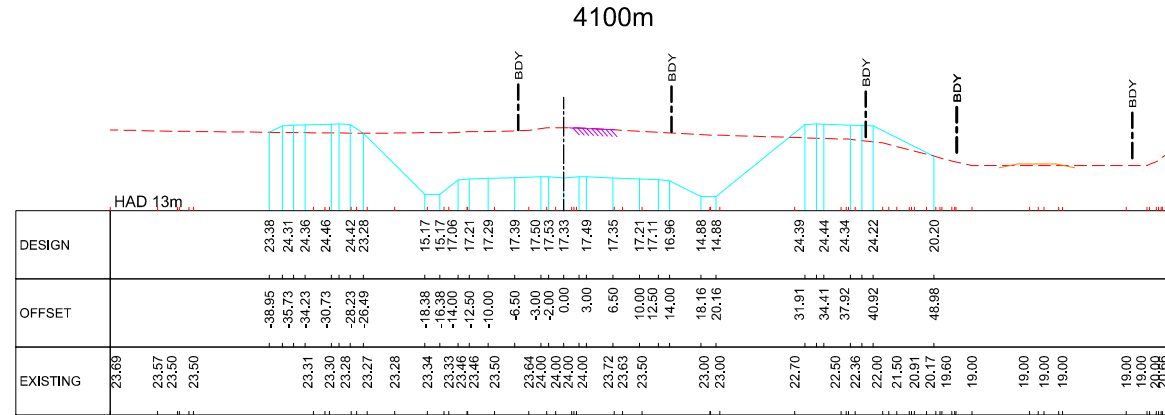
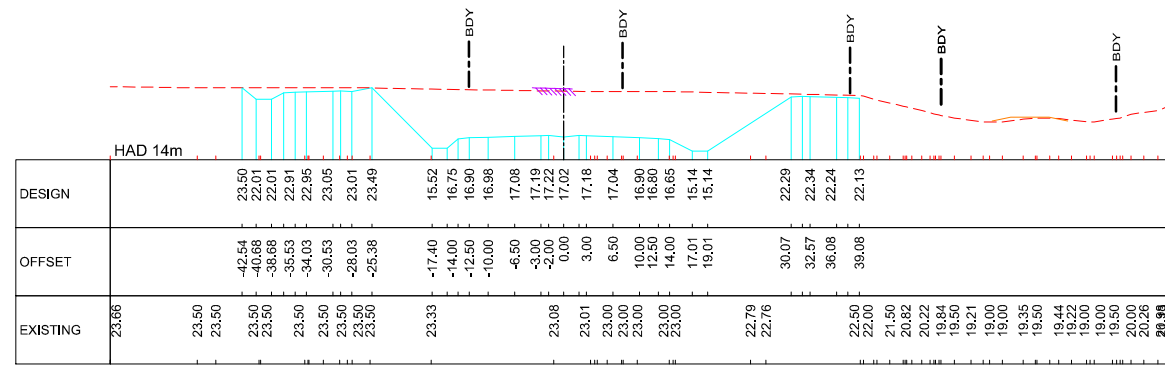
Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011
Project No.	Scale		
5C1814.00	1:100(A1), 1:200(A3)		

Project			
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT			
Sheet			
Cross Sections Change 3150 to 3500m			
Project No.	Scale	Drawing No.	Sheet No.
5C1814.00	1:100(A1), 1:200(A3)	5/2664/1/5504	GM38
			R1

0 10 50 100 200 300 mm



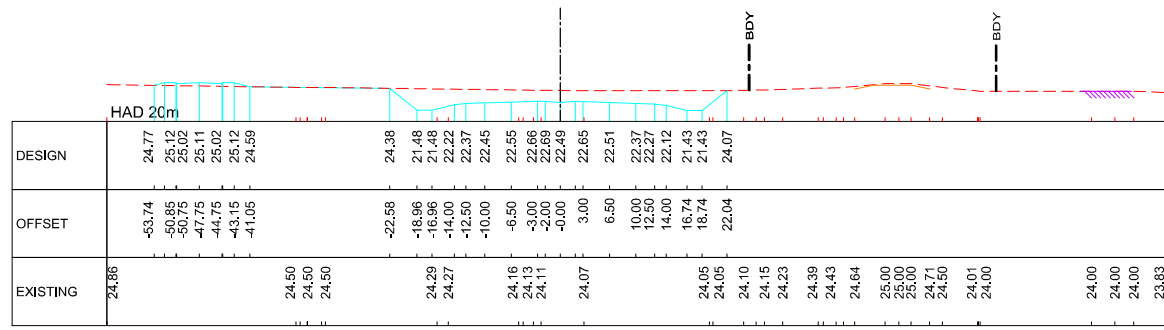
1:100 @ A1

Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

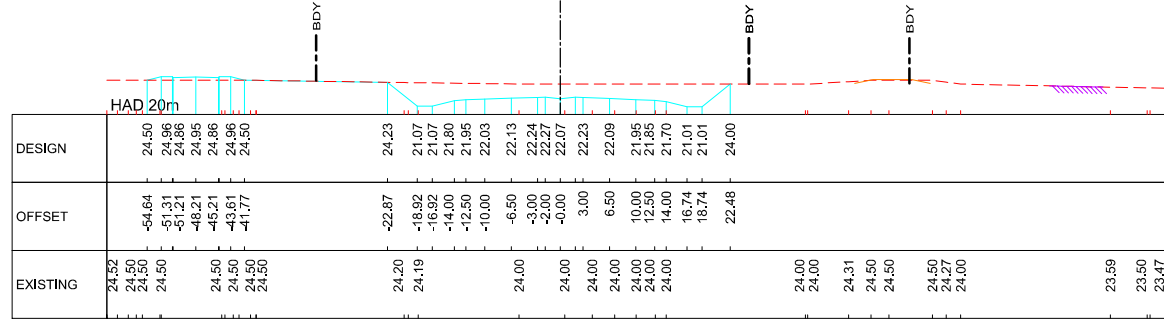


Project			
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT			
Sheet			
Cross Sections Change 3950 to 4300m			
Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011
Project No.	Scale	Sheet No.	Revision
5C1814.00	1:100(A1), 1:200(A3)	5/2664/1/5504	GM40 R1

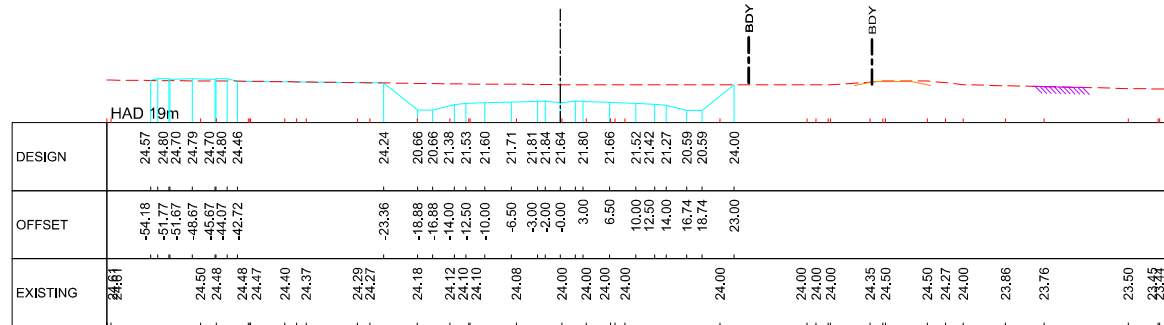
0 10 mm 50 100 200 300 mm



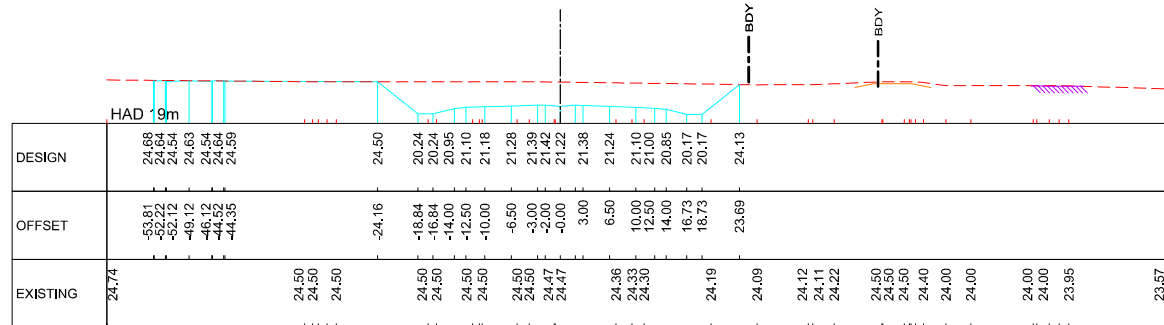
4900m



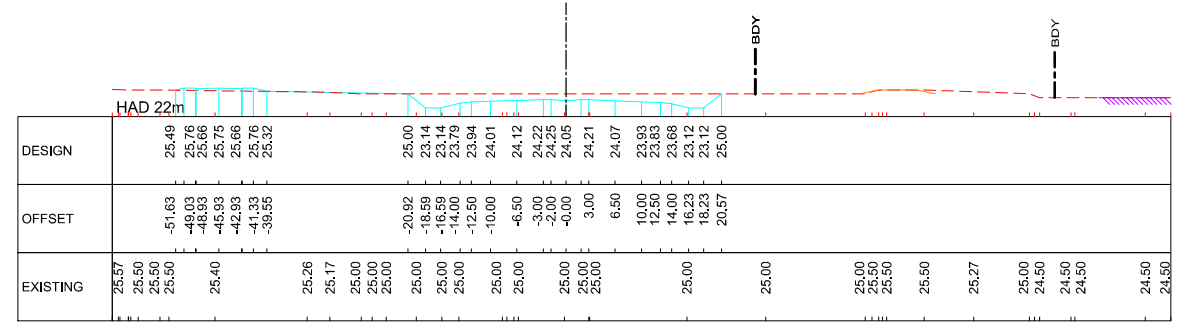
4850m



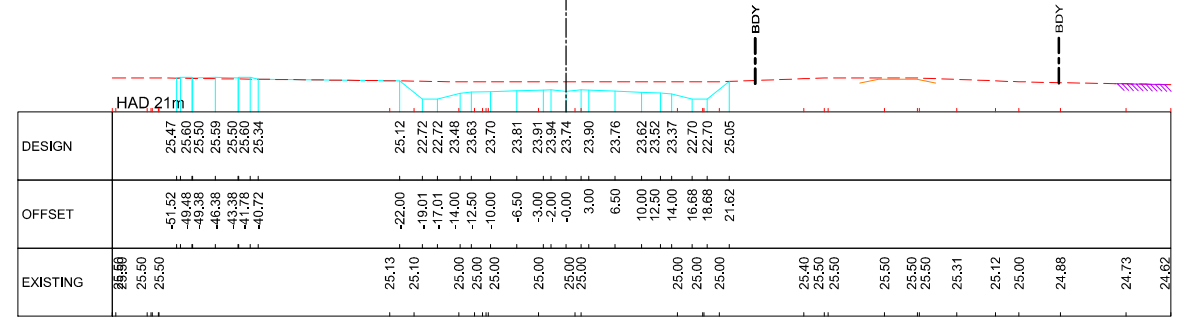
4800m



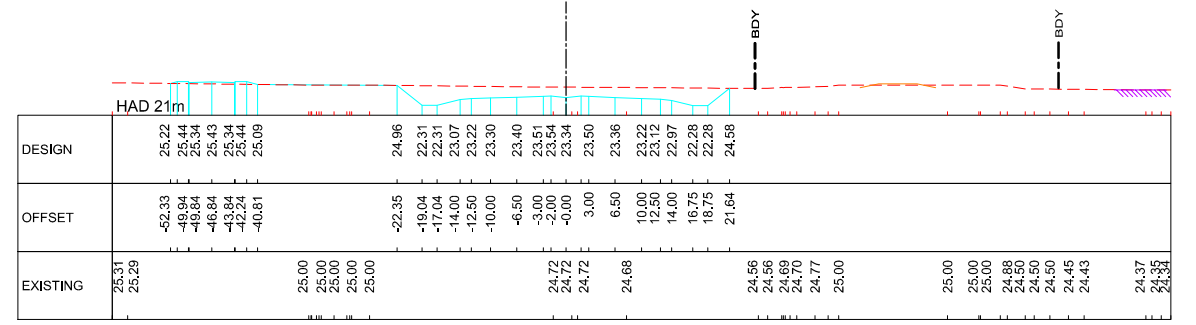
4750m



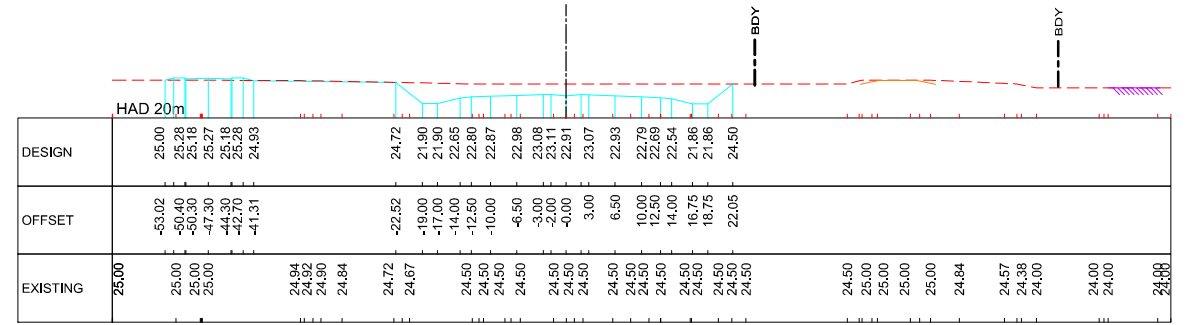
5100m



5050m



5000m

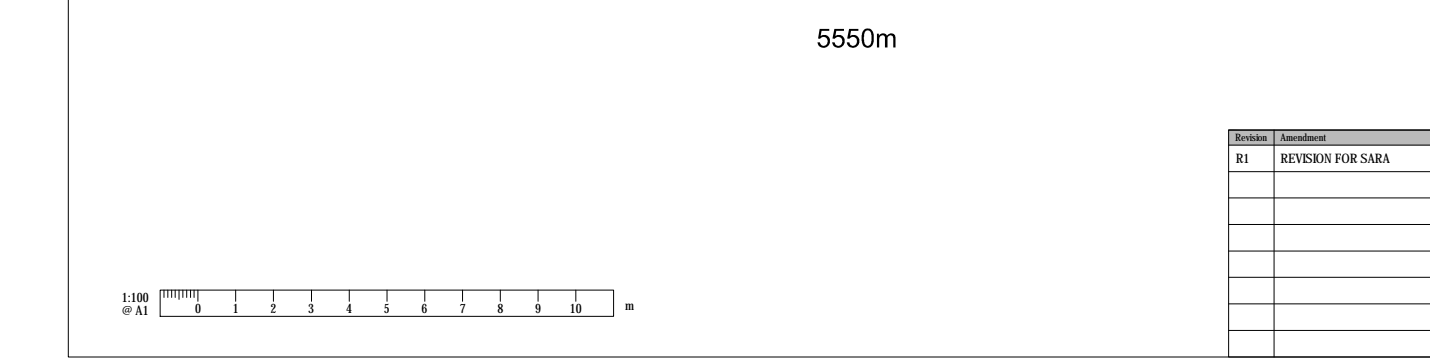
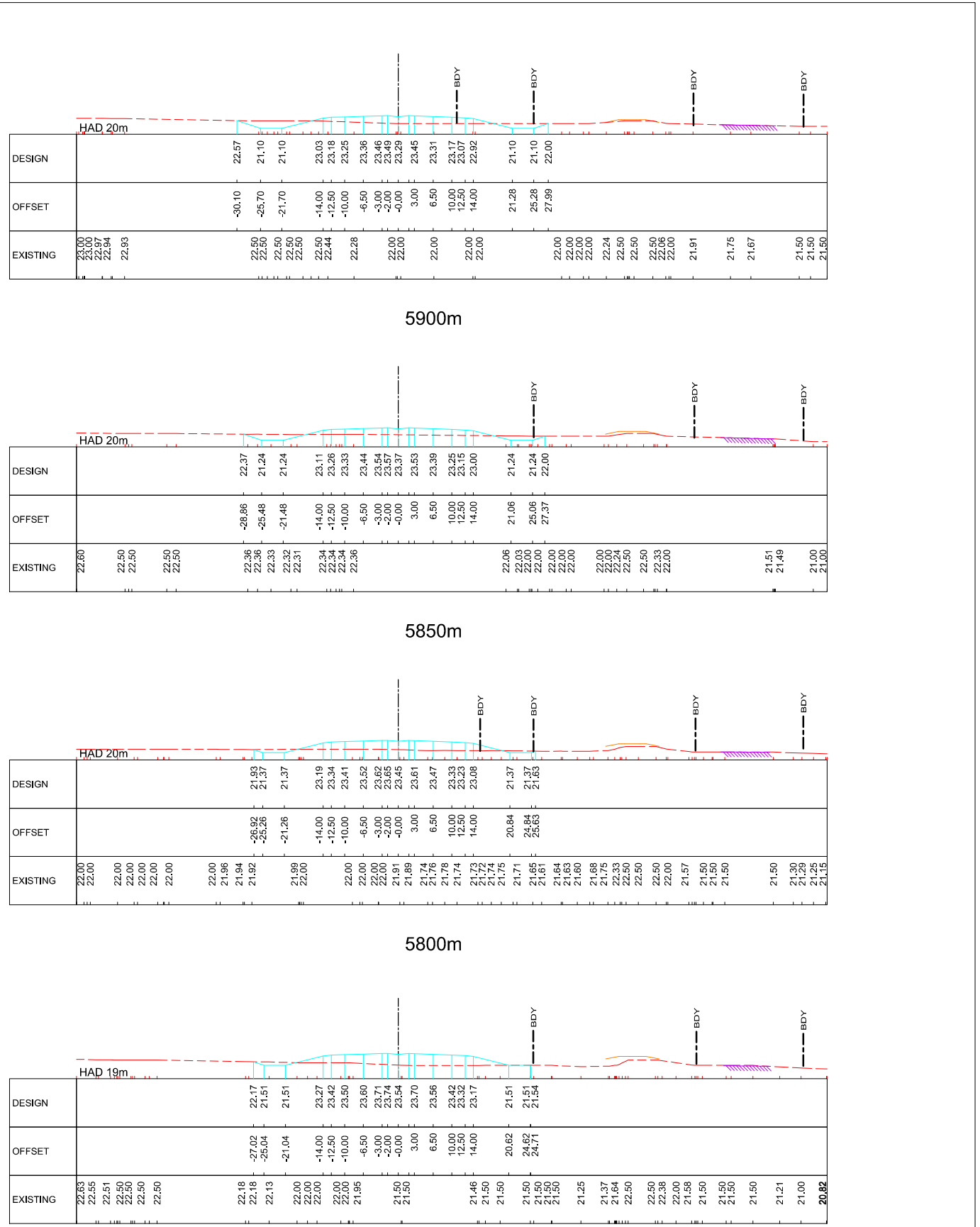
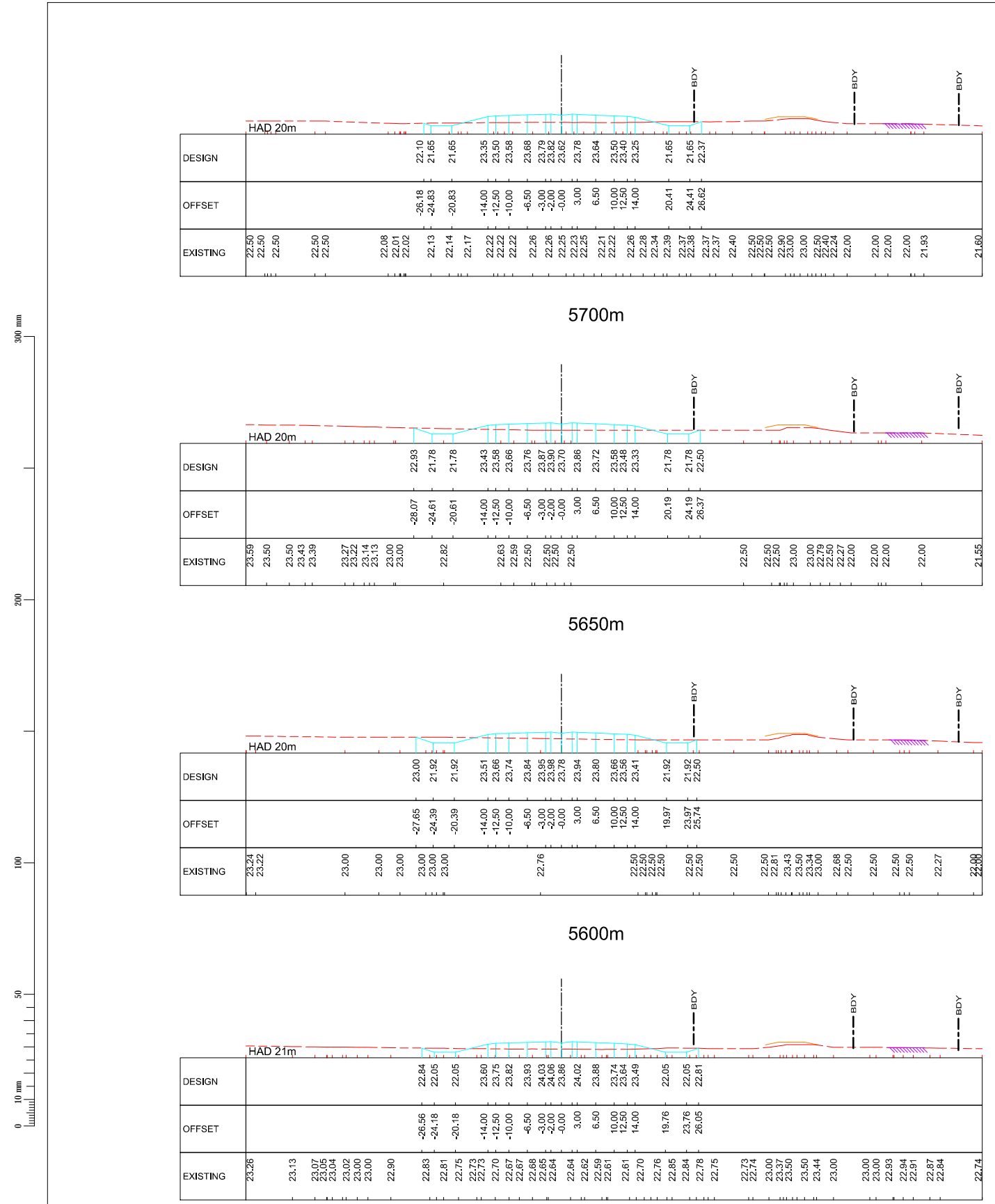


4950m

Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

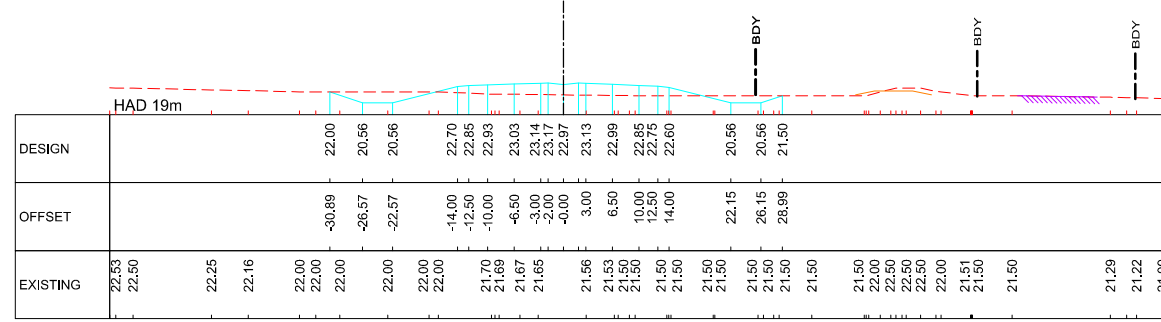


Project		NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet		Cross Sections Change 4750 to 5100m	
Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011
Project No.	Scale	Drawing No.	
5C1814.00	1:100(A1), 1:200(A3)	5/2664/1/5504	
Original Sheet Size	Plot Date	Plot No.	Revision
A1 [841x594]	16/03/12 @ 11:14	gm30-62	R1

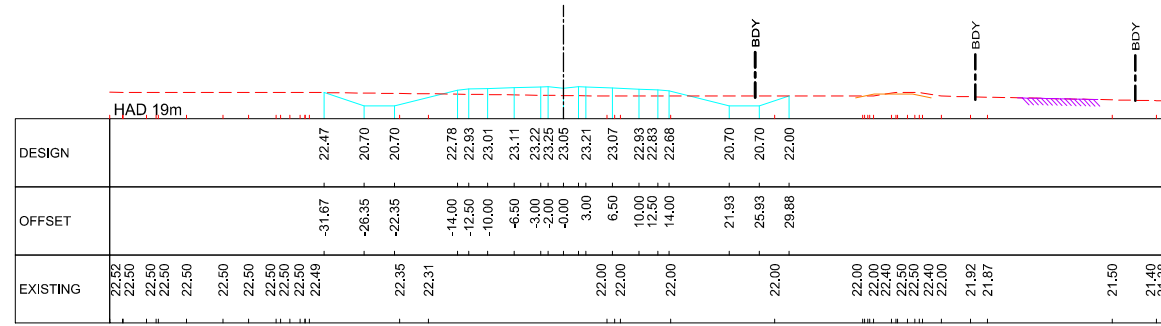


			Project NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT
Drawn: MX, Designed: MAE, Approved: T.COULMAN, Revision Date: 09/2011			Sheet Cross Sections Change 5550 to 5900m
Project No.: 5C1814.00	Scale: 1:100(A1), 1:200(A3)	Drawing No.: 5/2664/1/5504	Sheet No.: GM44, Revision: R1

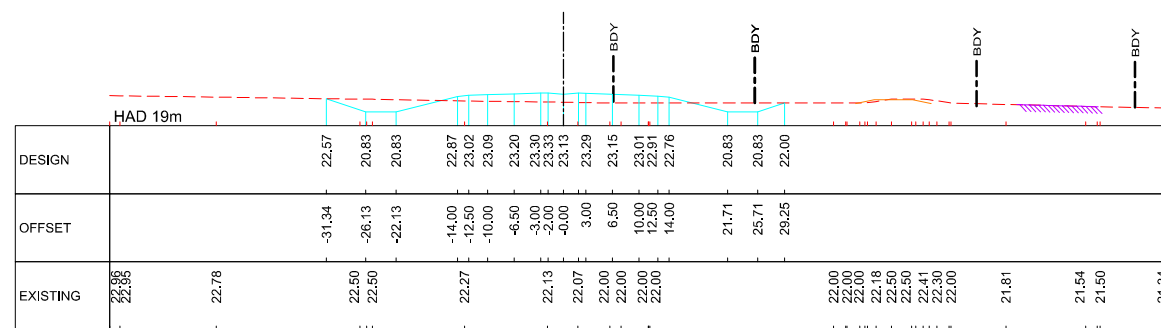
300 mm
200
100
50
0 10 mm



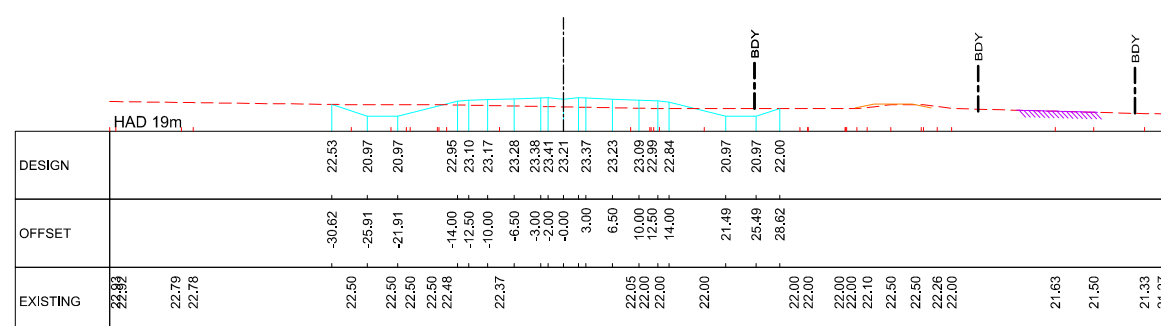
6100m



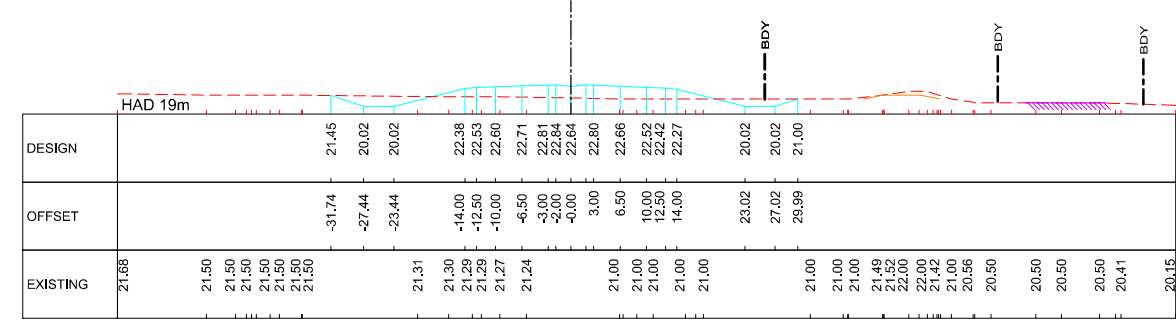
6050m



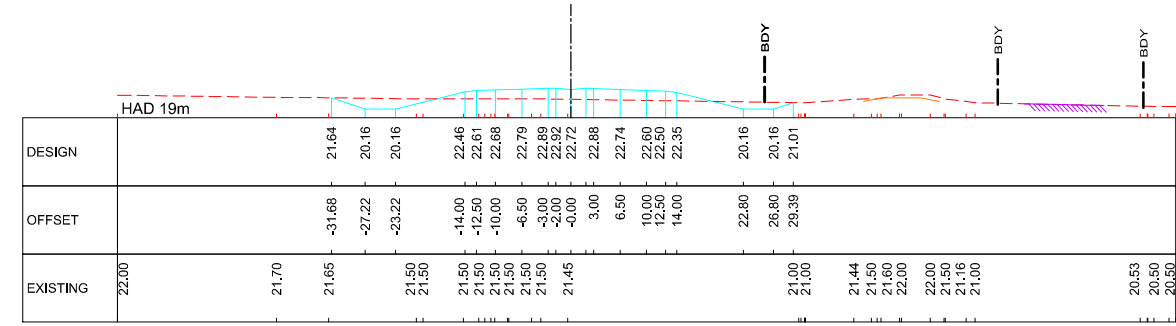
6000m



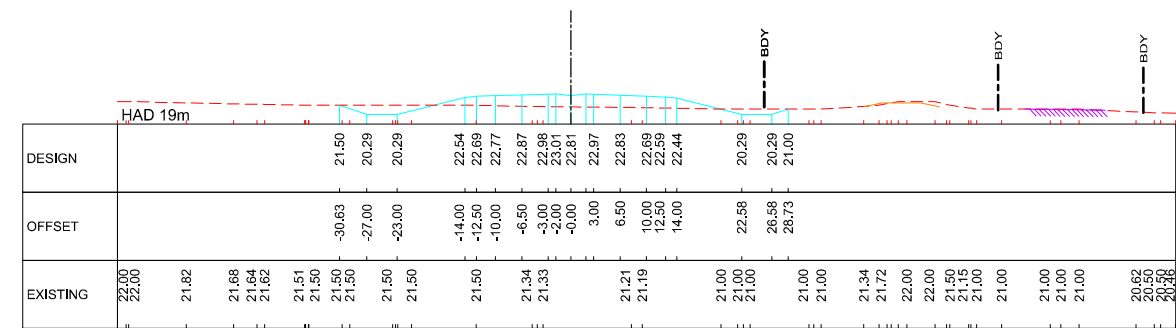
5950m



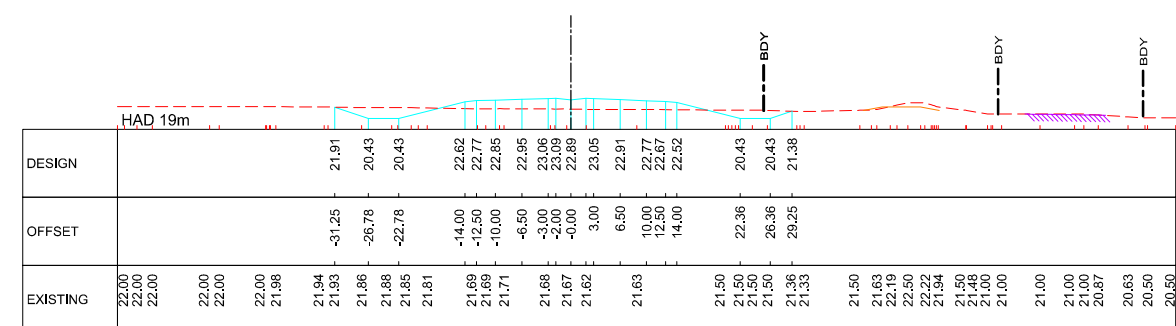
6300m



6250m



6200m



6150m

Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

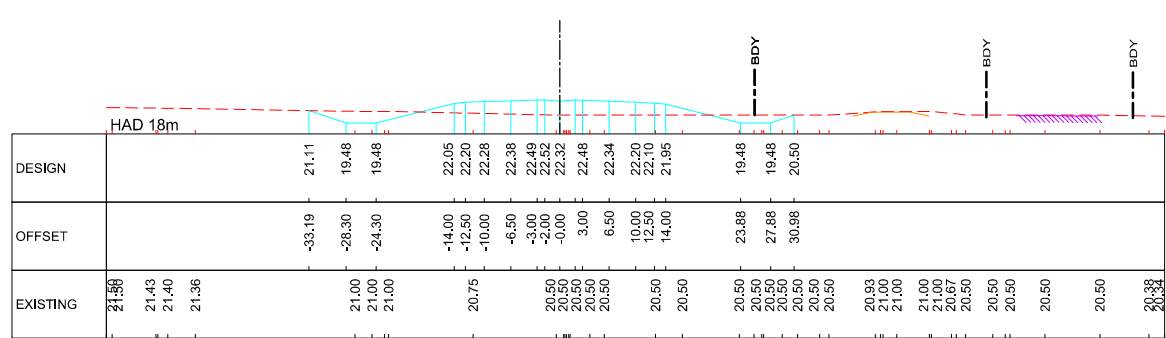
Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Sheet
Cross Sections
Change 5950 to 6300m

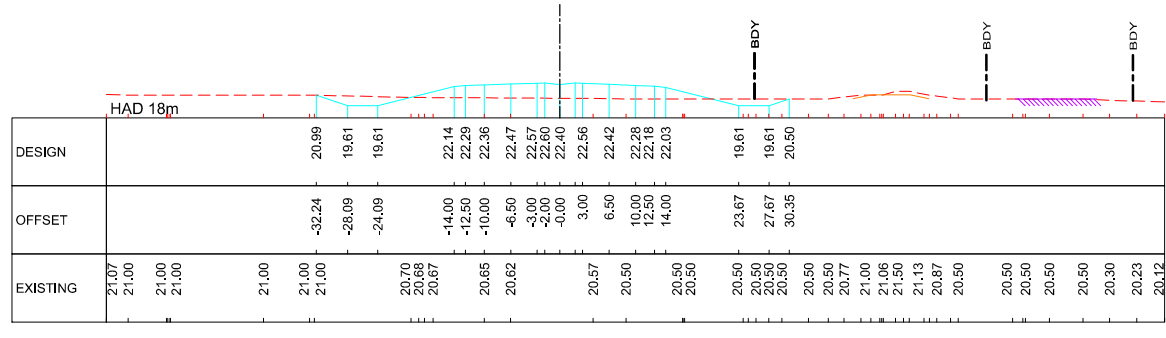
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Sheet No.	Revision
GM45	R1

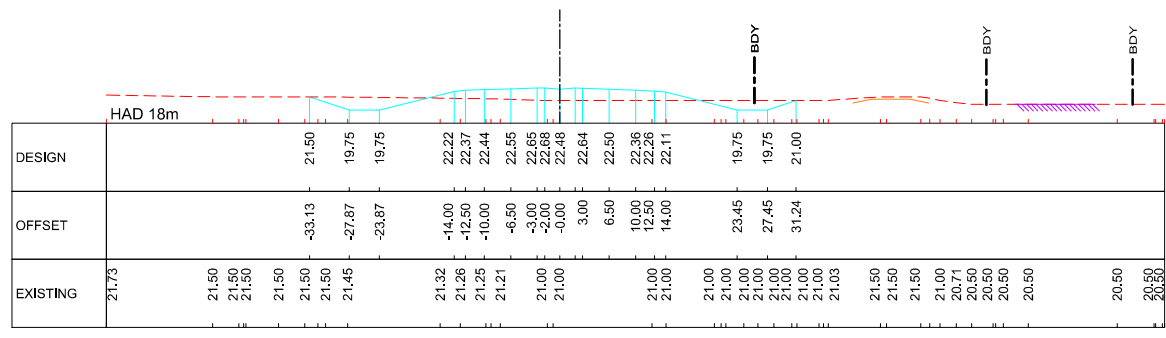
0 10 mm
50
100
200
300 mm



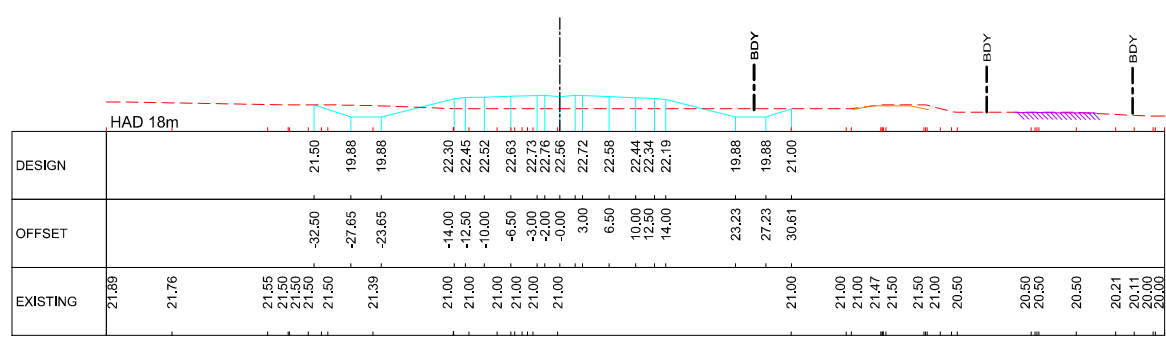
6500m



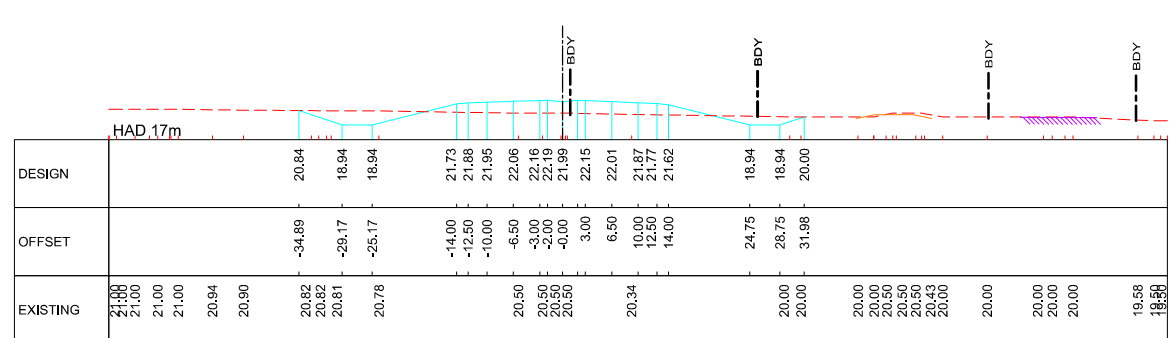
6450m



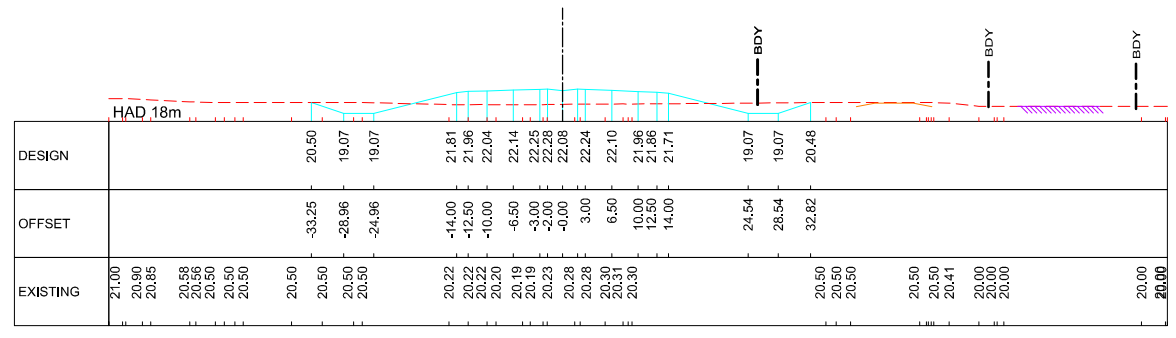
6400m



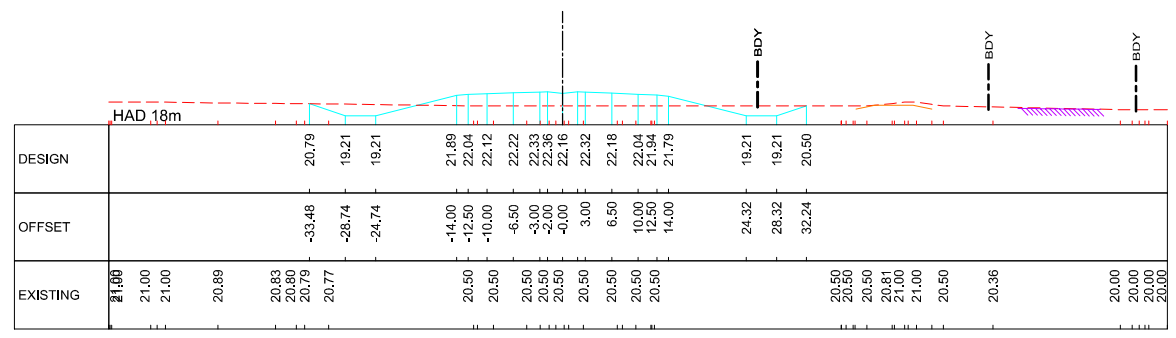
6350m



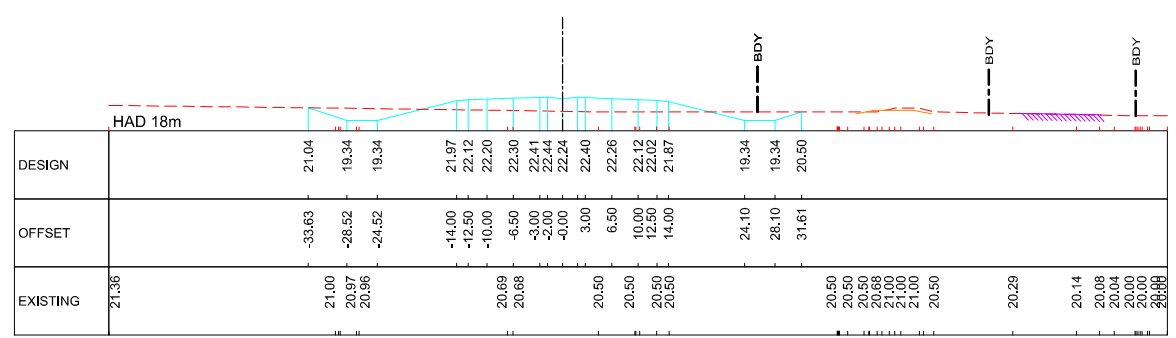
6700m



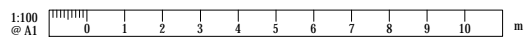
6650m



6600m



6550m



Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

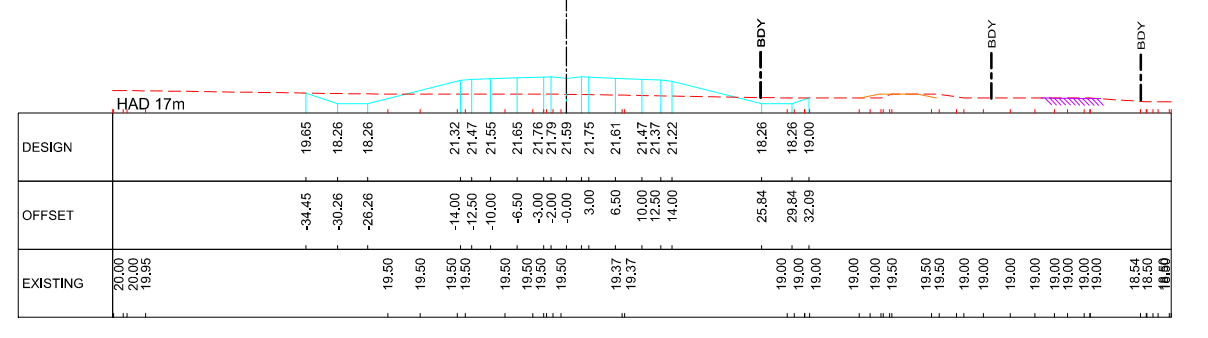
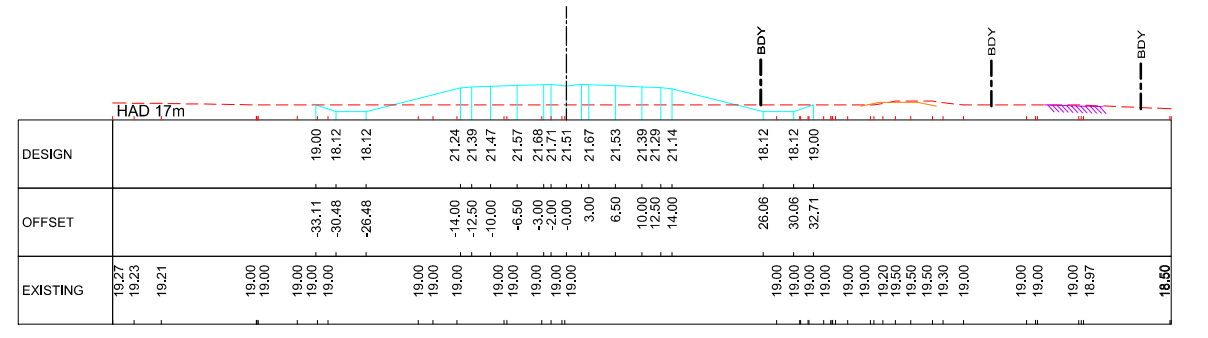
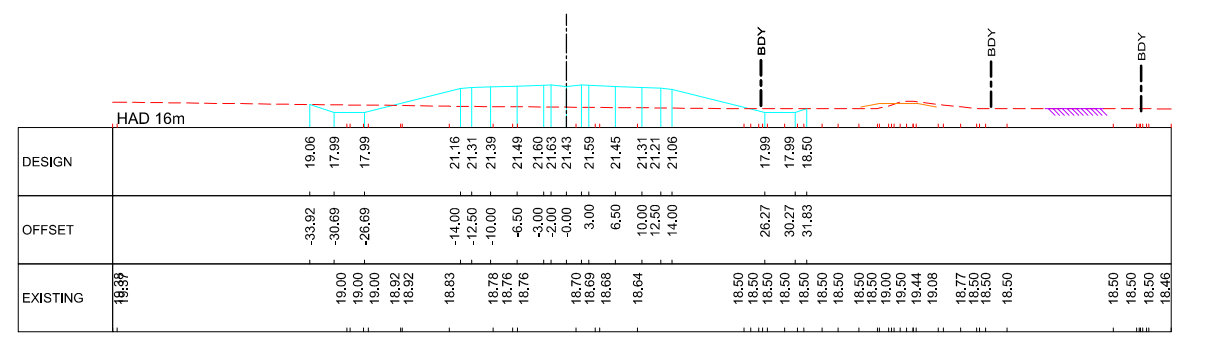
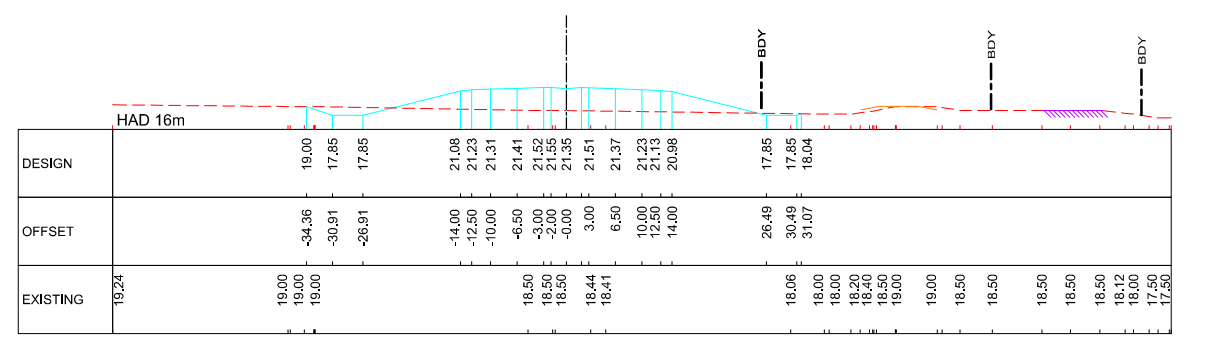
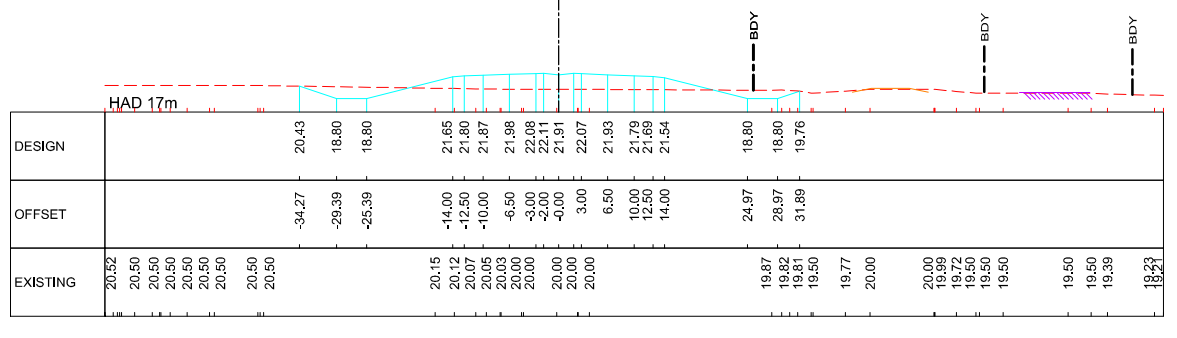
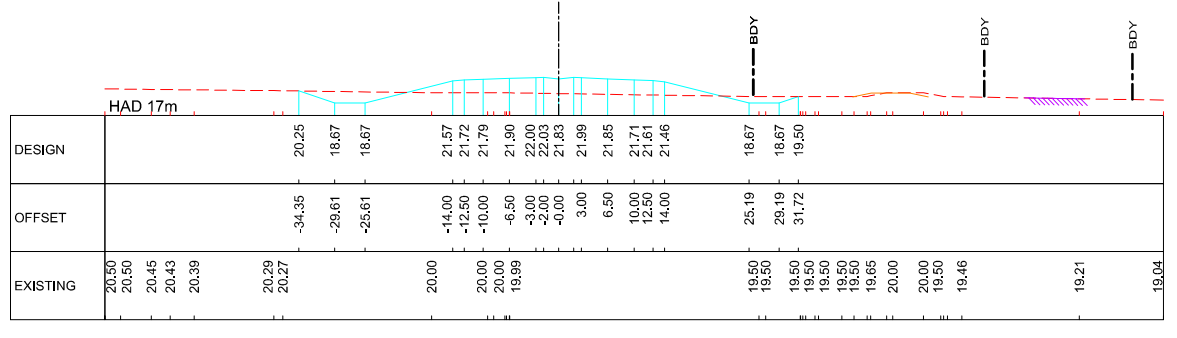
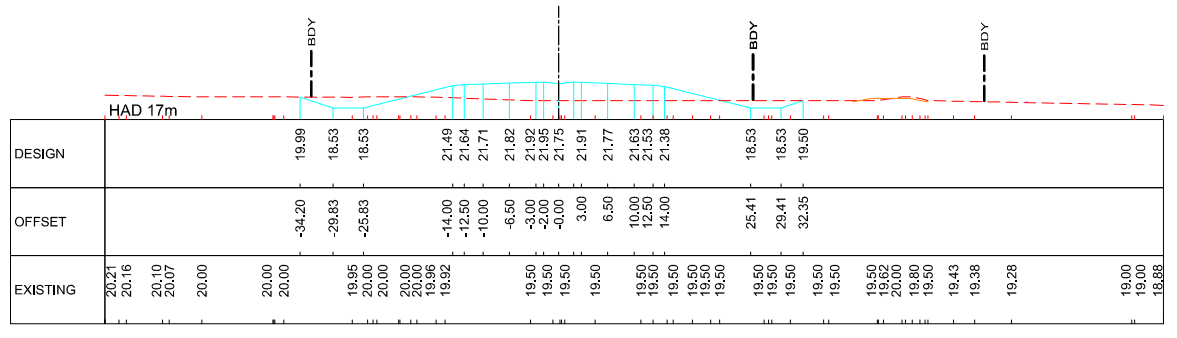
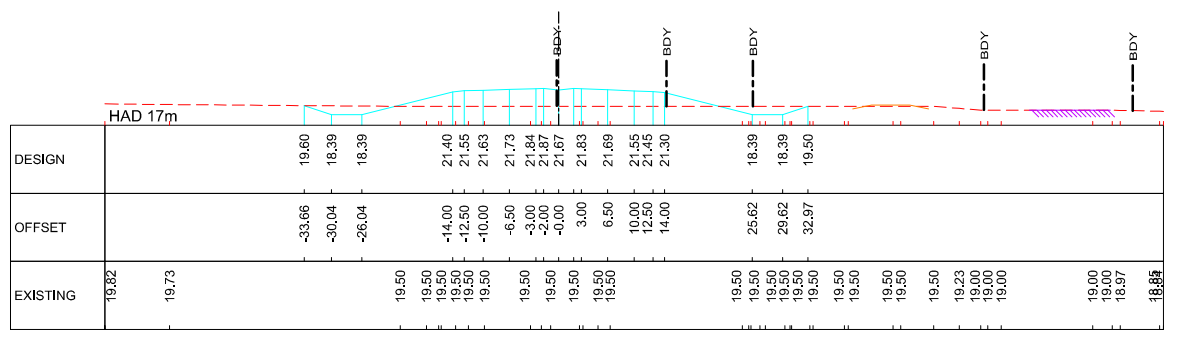


Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011


Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)


Project	NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT
Sheet	Cross Sections Change 6350 to 6700m
Drawing No.	5/2664/1/5504
Sheet No.	GM46
Revision	R1

0 10 mm 50 100 200 300 mm



Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12





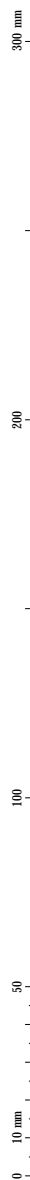
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

Sheet
Cross Sections
Change 6750 to 7100m

Project No. 5C1814.00 Scale 1:100(A1), 1:200(A3) Drawing No. 5/2664/1/5504

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Sheet No.	Revision
GM47	R1



HAD 16m

DESIGN				18.40	17.54	17.54		20.76	20.91	20.98	21.09	21.19	21.19	21.02	21.18	21.04	20.90	20.89	20.85	17.54	17.88		
OFFSET				-33.48	-30.88	-26.88		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	3.00	6.50	10.00	12.50	14.00	26.46	29.51		
EXISTING	18.17	18.32	18.50	19.00	18.61	18.50	18.50	18.36	18.25	18.13	18.04	18.03	18.00	18.00	17.92	17.91	17.79	17.79	17.92	17.92	18.00	18.48	18.50

7300m

HAD 15m

DESIGN				18.50	17.50	17.50		20.84	20.99	21.06	21.17	21.07	21.30	21.10	21.26	21.12	20.98	20.97	20.73	17.50	17.50		
OFFSET				-34.35	-31.35	-27.35		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	3.00	6.50	10.00	12.50	14.00	26.93	28.93		
EXISTING	18.52	18.50	18.50	18.50	18.50	18.50	18.50	18.49	18.47	18.47	18.44			18.00	18.00	18.00	18.00	18.00	18.00	18.00	17.91	17.88	17.50

7250m

HAD 16m

DESIGN				18.49	17.68	17.68		20.92	21.07	21.14	21.25	21.38	21.18	21.34	21.20	21.06	21.06	20.81	17.68	17.68			
OFFSET				-34.07	-31.35	-27.35		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	3.00	6.50	10.00	12.50	14.00	26.93	32.20		
EXISTING	18.66	18.60	18.55	18.50	18.50	18.49	18.46	18.43	18.24		18.09	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.17	18.00	18.00	18.00	18.00

7200m

HAD 16m

DESIGN				18.64	17.72	17.72		21.00	21.15	21.22	21.33	21.46	21.26	21.42	21.28	21.14	21.14	20.89	17.72	17.72			
OFFSET				-34.51	-31.13	-27.13		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	3.00	6.50	10.00	12.50	14.00	26.71	30.71	31.57	
EXISTING	18.00	19.00	19.00	19.00	18.83	18.53	18.74	18.67	18.55	18.53	18.50	18.50	18.45	18.41	18.33	18.29	18.22	18.14	18.06	18.23	18.00	18.00	18.00

7150m

HAD 14m

DESIGN								18.25	17.68	17.68		20.43	20.58	20.66	20.76	20.87	20.90	20.96	20.72	17.68	17.81		
OFFSET								-30.71	-29.00	-25.00		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	6.50	24.58	26.98		
EXISTING	18.82	18.60	18.50	18.50	18.50	18.45	18.35		18.09	18.00	18.00	18.00	18.00	18.00	17.61	17.58	17.50	17.50	17.50	17.28	17.00	16.50	16.23

7500m

HAD 15m

DESIGN								18.10	17.64	17.64		20.51	20.66	20.74	20.84	20.95	20.96	20.94	20.80	17.64	17.74		
OFFSET								-30.83	-29.47	-25.47		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	6.50	25.05	27.35		
EXISTING	18.73		18.50	18.50	18.19	18.03	18.00	18.00	18.00	17.85	17.80	17.70	17.52	17.50	17.50	17.50	17.50	17.50	17.50	17.00	17.00	17.23	17.58

7450m

HAD 15m

DESIGN								18.00	17.61	17.61		20.59	20.74	20.82	20.92	21.03	21.06	21.02	20.88	17.61	17.68		
OFFSET								-31.11	-29.94	-25.94		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	6.50	25.52	27.72		
EXISTING	18.50	18.50	18.50	18.34	18.00	18.00	18.00	18.00	18.00	18.00	17.73	17.66	17.63	17.54	17.56	17.57	17.50	17.51	17.50	17.50	17.50	17.50	17.50

7400m

HAD 16m

DESIGN								18.47	17.57	17.57		20.67	20.82	20.90	21.00	21.11	21.14	21.10	20.96	17.57	17.61		
OFFSET								-33.09	-30.41	-26.41		-14.00	-12.50	-10.00	-6.50	-3.00	-2.00	-0.00	6.50	25.99	28.09		
EXISTING	18.94	18.58	18.50	18.50	18.50	18.50	18.50	18.38	18.37	18.00	18.00	18.00	18.00	18.00	18.00	17.57	17.50	17.50	17.50	17.50	17.50	17.50	17.50

7350m

Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

NZ TRANSPORT AGENCY
MAKA OTAKI

OPUS URS

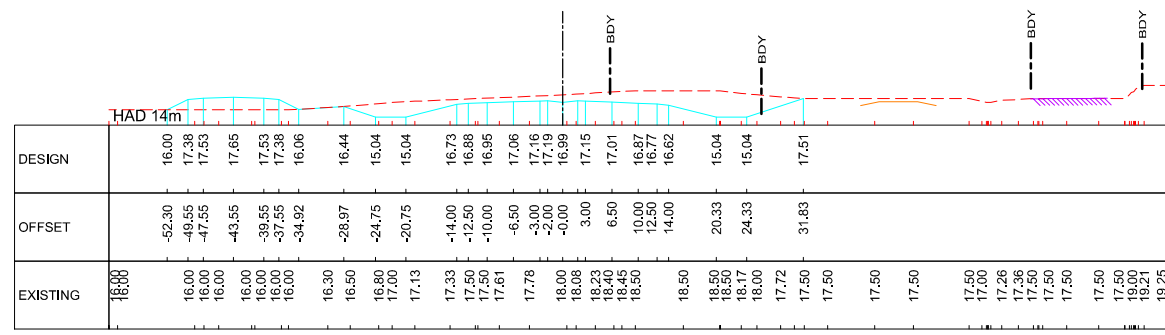
Drawn: MX, Designed: MAE, Approved: T.COULMAN, Revision Date: 09/2011

Project No: 5C1814.00, Scale: 1:100(A1), 1:200(A3)

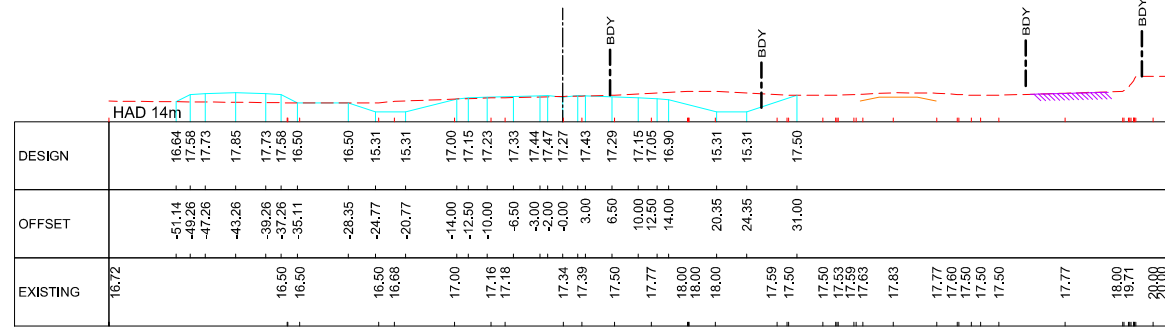
Project: NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

Sheet: Cross Sections
Change 7150 to 7500m

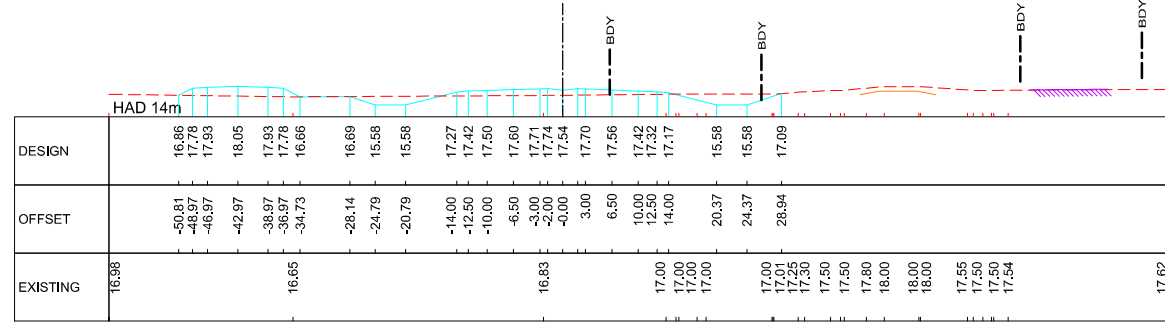
Project No: 5/2664/1/5504, Drawing No: GM48, Sheet No: R1, Revision: R1



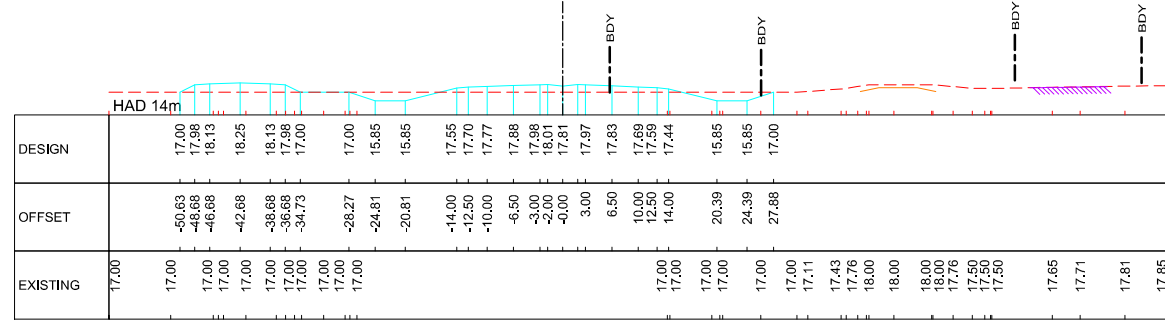
8500m



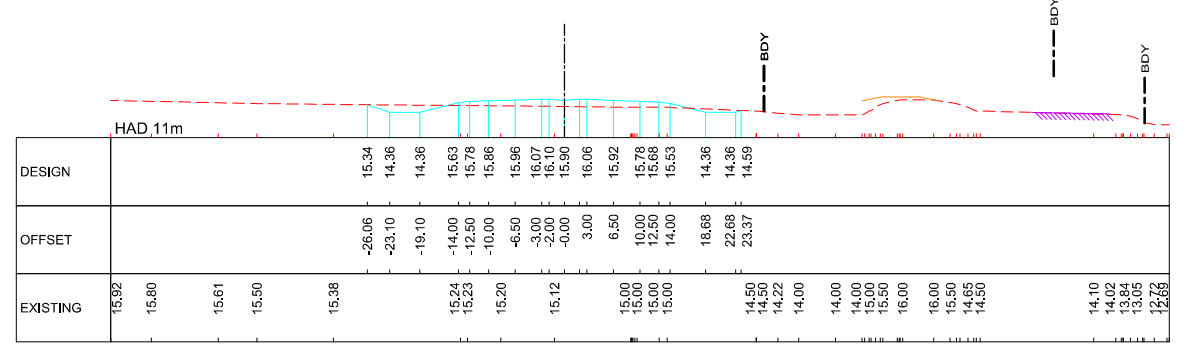
8450m



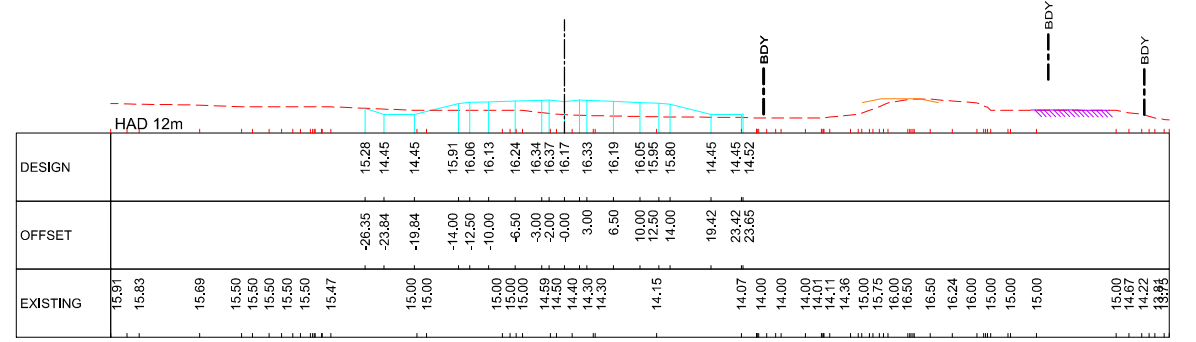
8400m



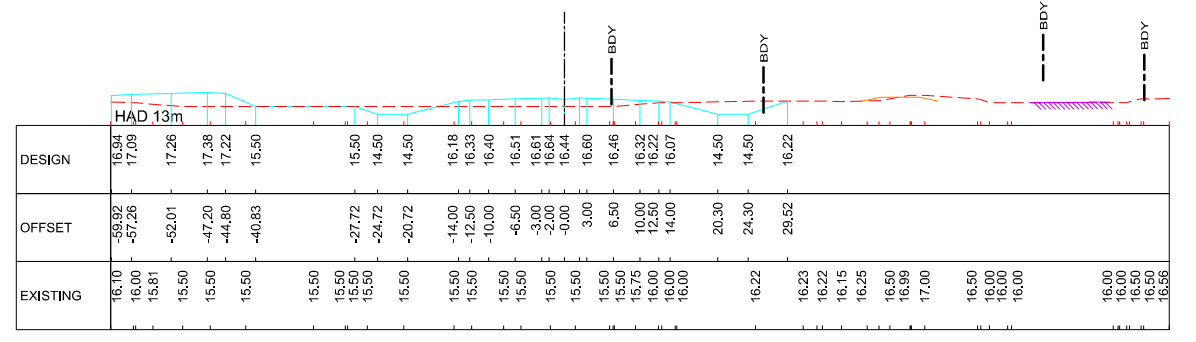
8350m



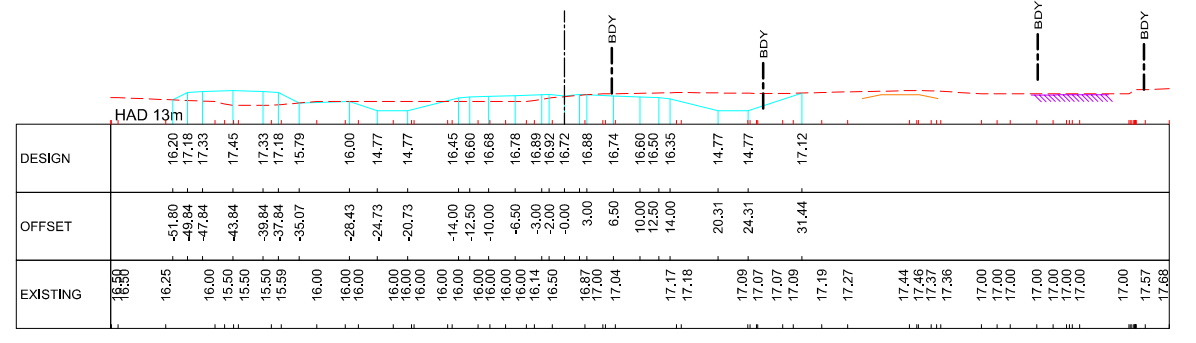
8700m



8650m



8600m



8550m

Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



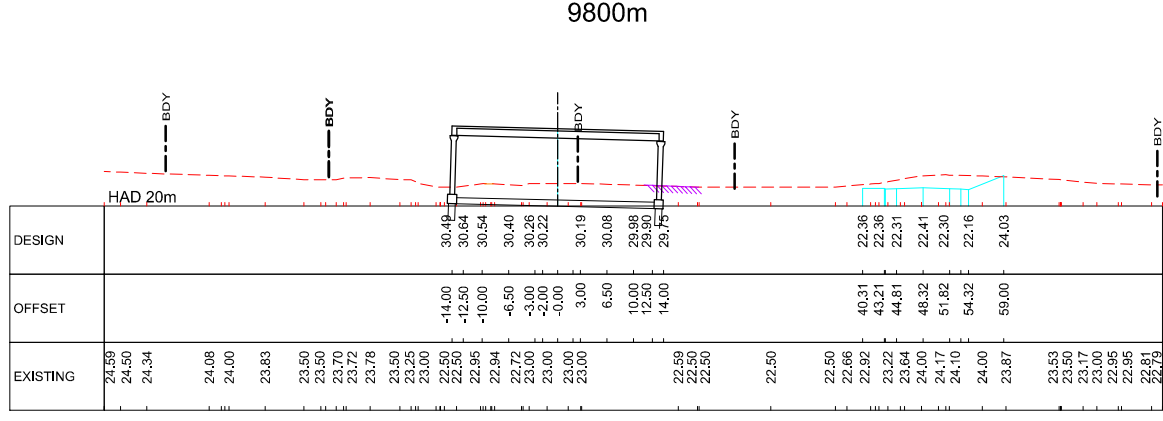
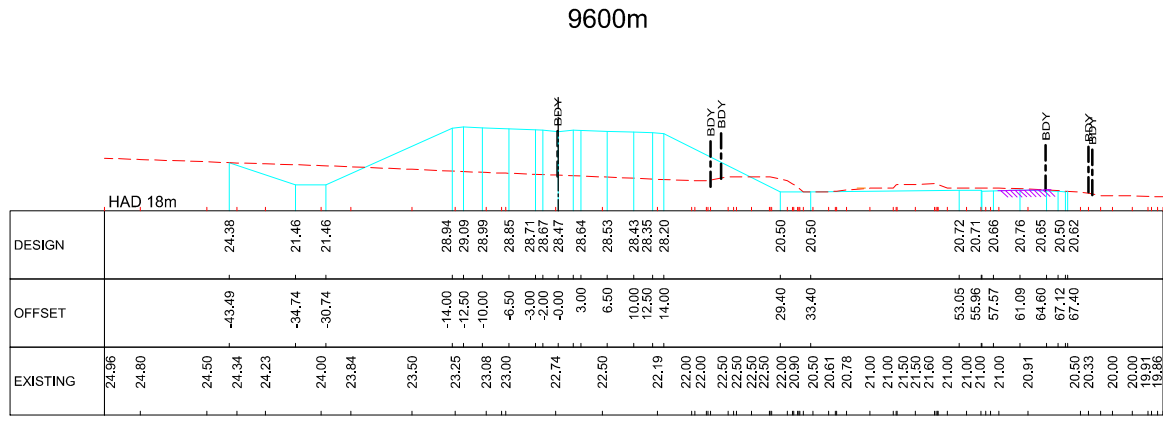
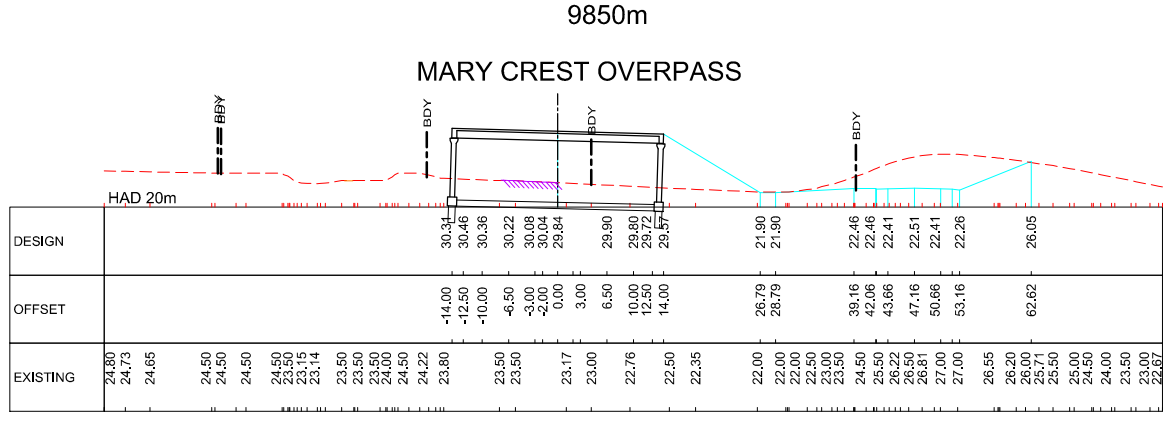
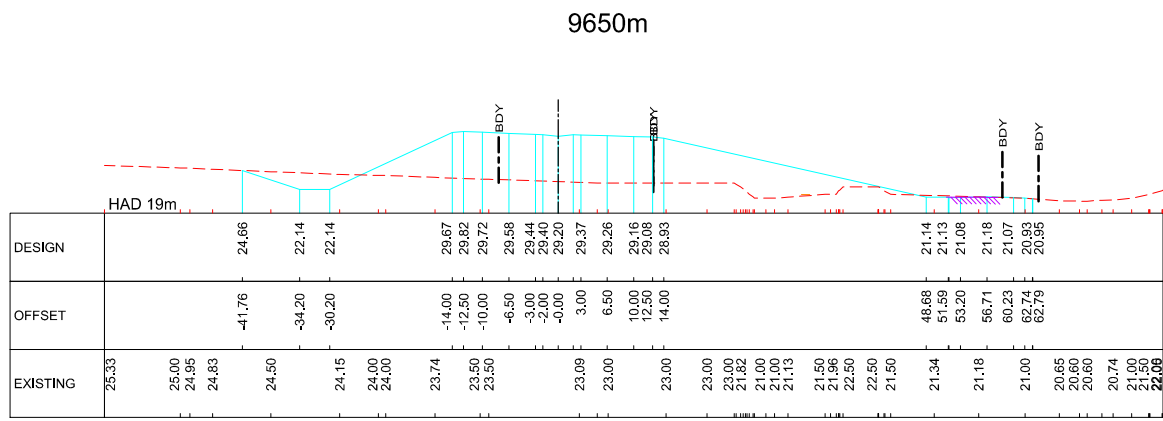
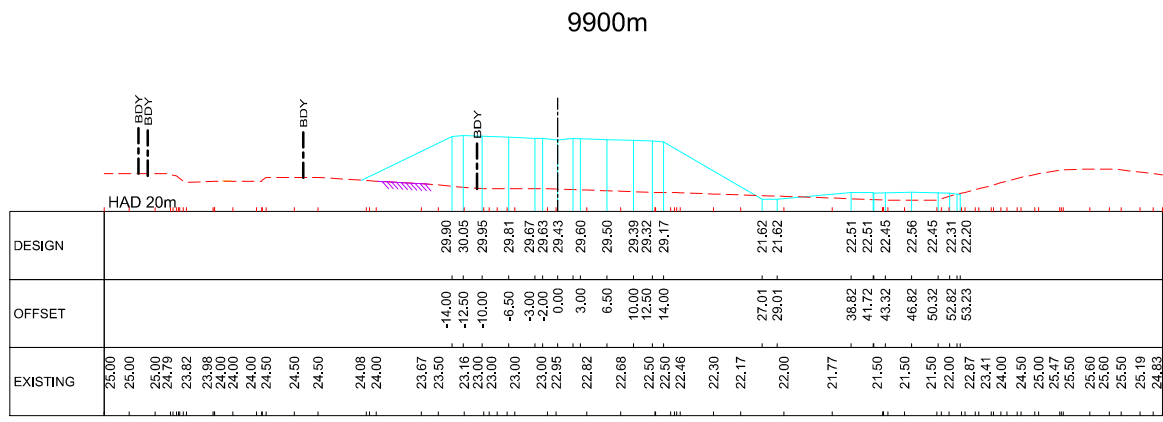
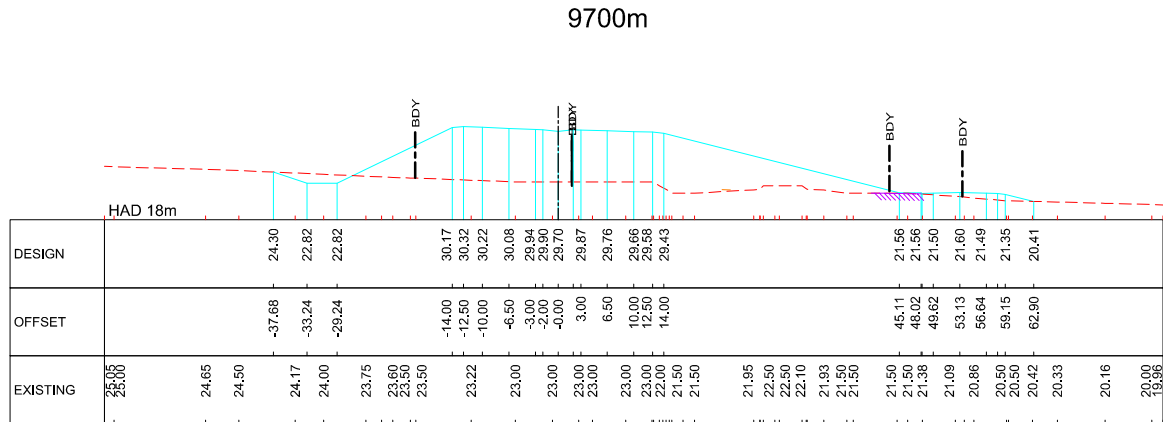
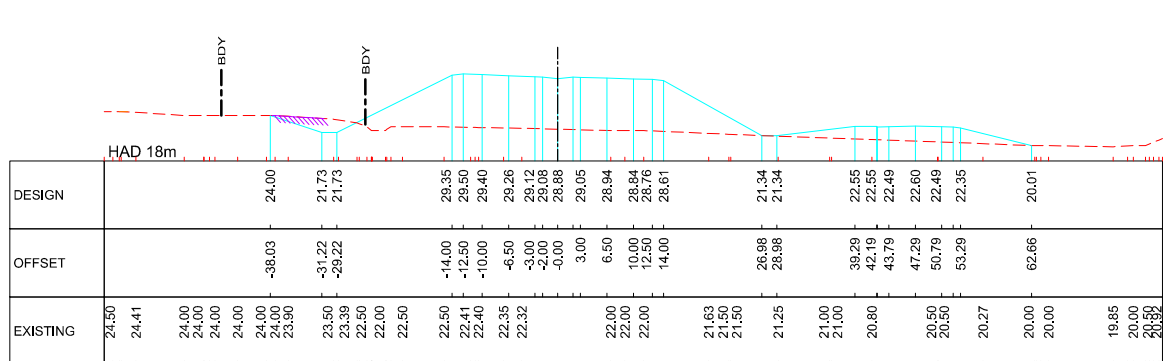
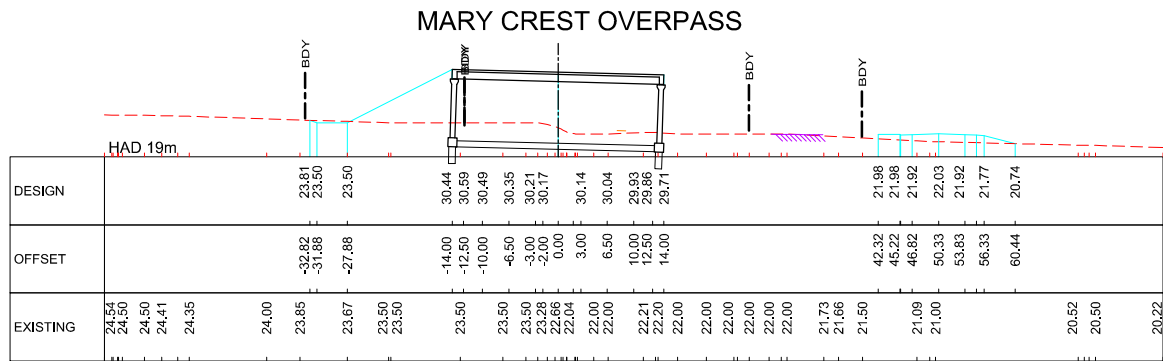
Project: NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

Sheet: Cross Sections
Change 8350 to 8700m

Drawn: MX, Designed: MAE, Approved: T.COULMAN, Revision Date: 09/2011

Project No: 5C1814.00, Scale: 1:100(A1), 1:200(A3), Drawing No: 5/2664/1/5504

Sheet No: GM51, Revision: R1



Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



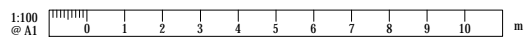
Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

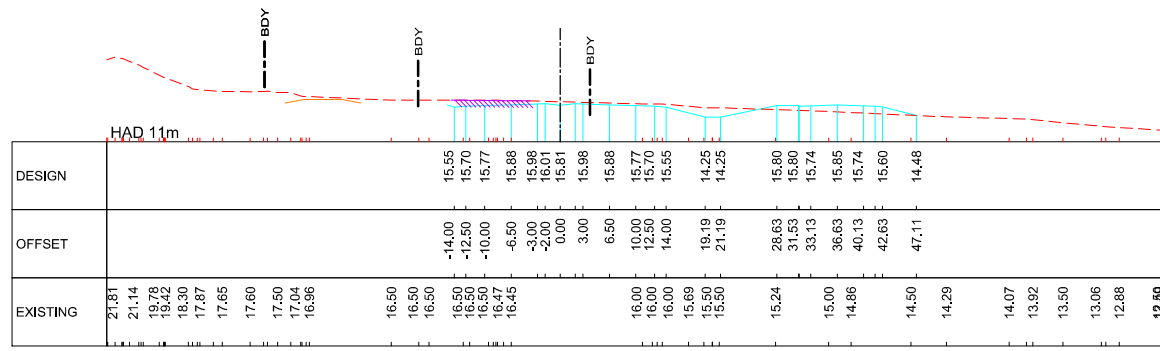
Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

Sheet
Cross Sections
Change 9550 to 9900m

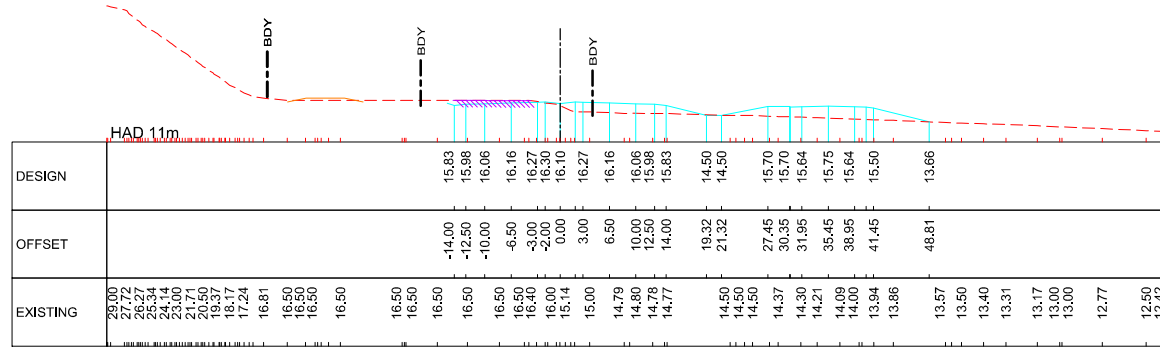
Drawing No.	Sheet No.	Revision
5/2664/1/5504	GM54	R1



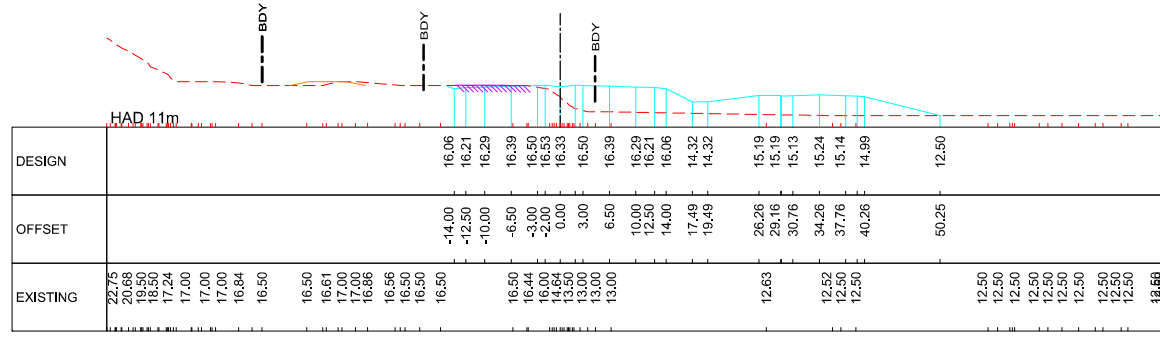
300 mm
200
100
50
10 mm
0



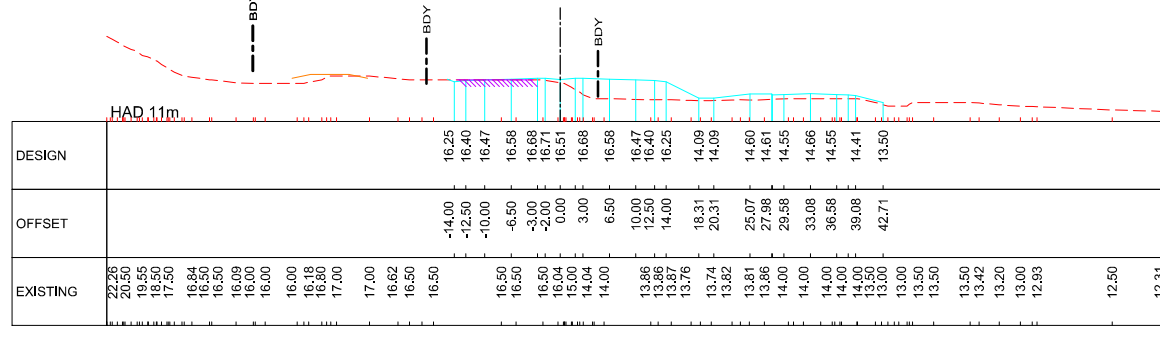
11550m



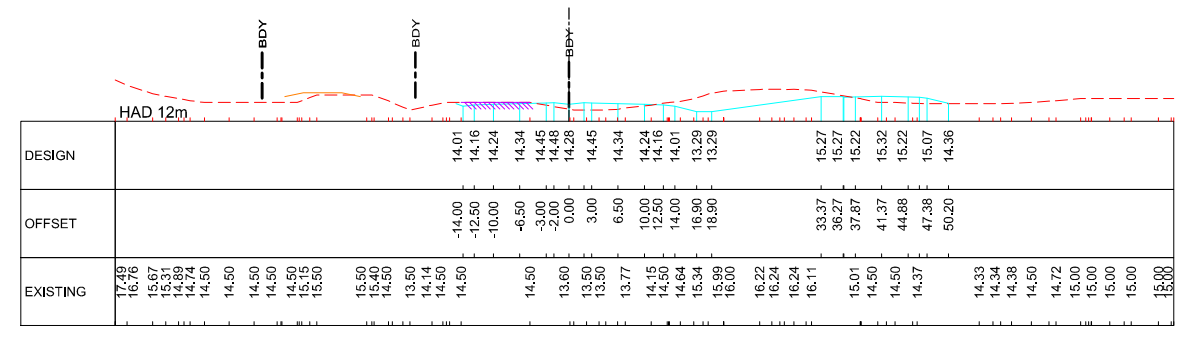
11500m



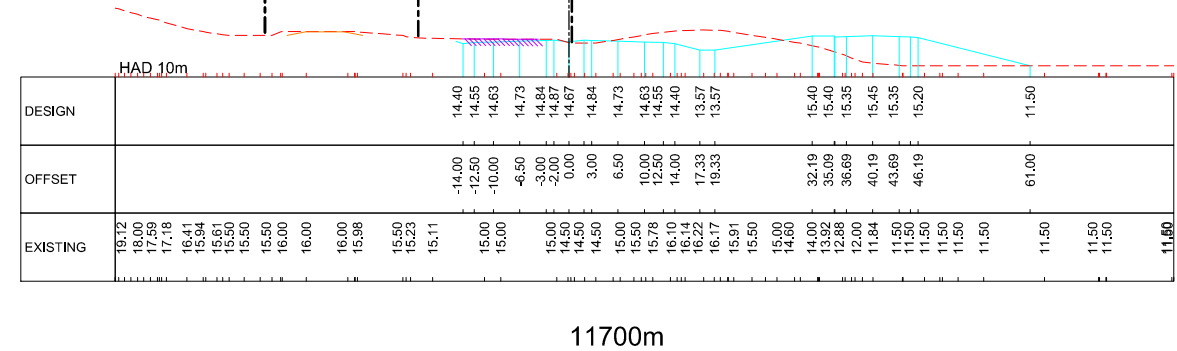
11450m



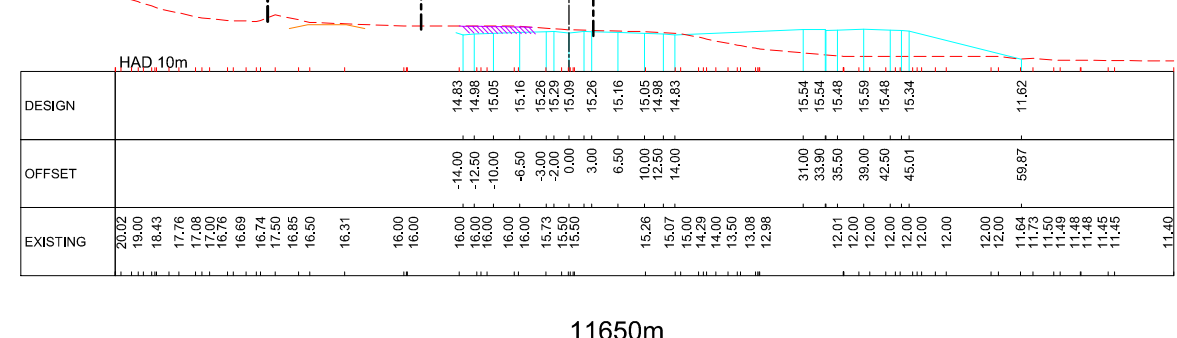
11400m



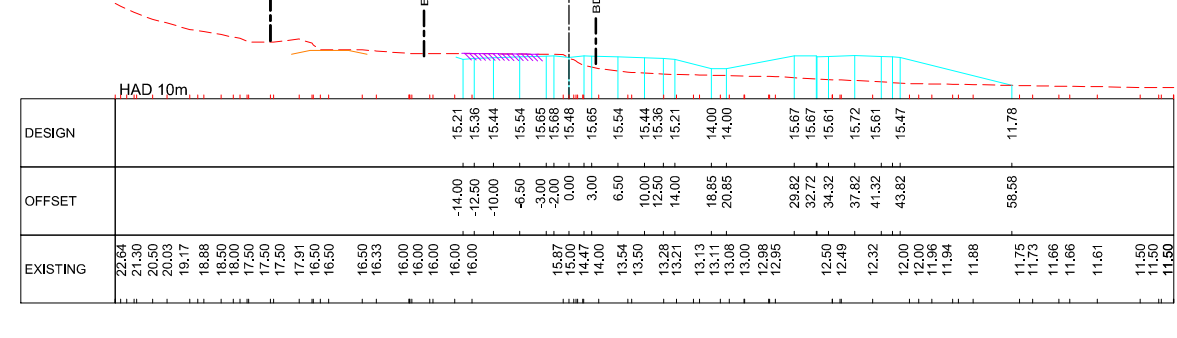
11750m



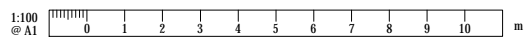
11700m



11650m






11600m



Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



Drawn: MX
 Designed: MAE
 Approved: T. COULMAN
 Revision Date: 09/2011

Project No. 5C1814.00
 Scale: 1:100(A1), 1:200(A3)

NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
SCHEME ASSESSMENT

Cross Sections
Change 11400 to 11750m

Drawing No. 5/2664/1/5504

Sheet No.	Revision
GM59	R1

