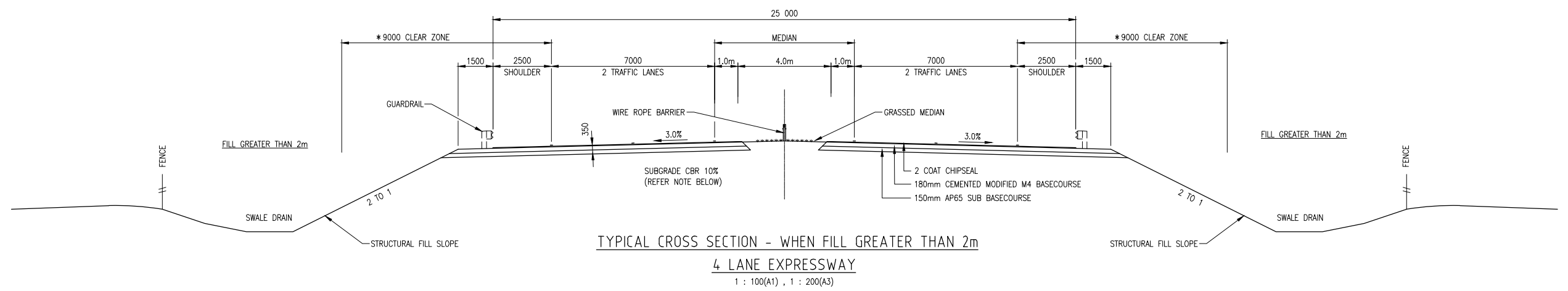
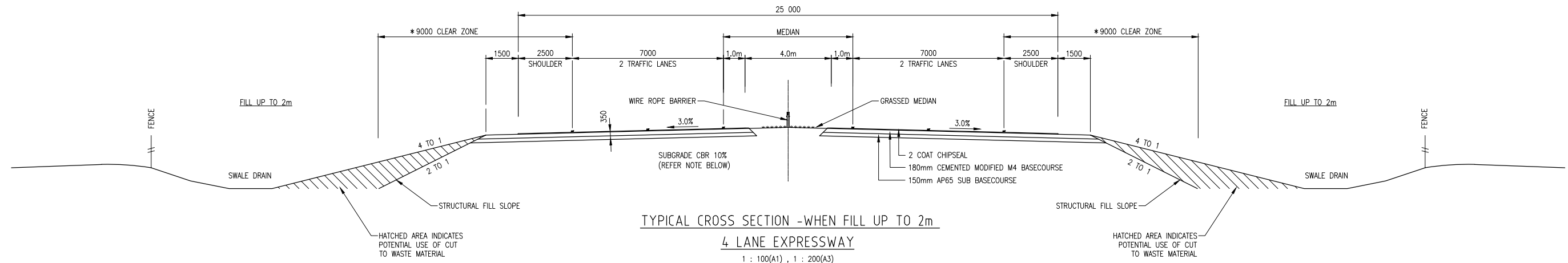
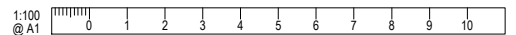


300mm  
200  
100  
50  
10mm  
0



**NOTES:**

1. INCLUDE IMPROVEMENT LAYER OF 160mm GRANULAR MATERIAL IF IN SITU SUBGRADE CBR IS 5 - 8%.
2. OGPA (LOW NOISE) SURFACING CURRENTLY ASSUMED TO BE PROVIDED BETWEEN THE FOLLOWING CHAINAGES : 1200 - 3100 AND 4300 - 9700 EXACT EXTENT TO BE CONFIRMED THROUGH AEE PROCESS.



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



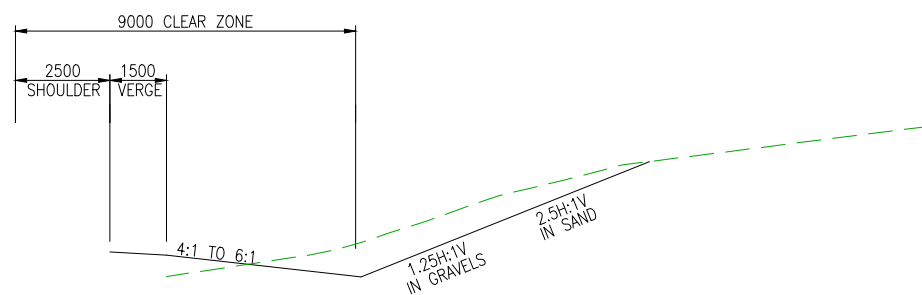
Drawn	Designed	Approved	Revision Date
CAD	MAE	T.COULMAN	09/2011

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

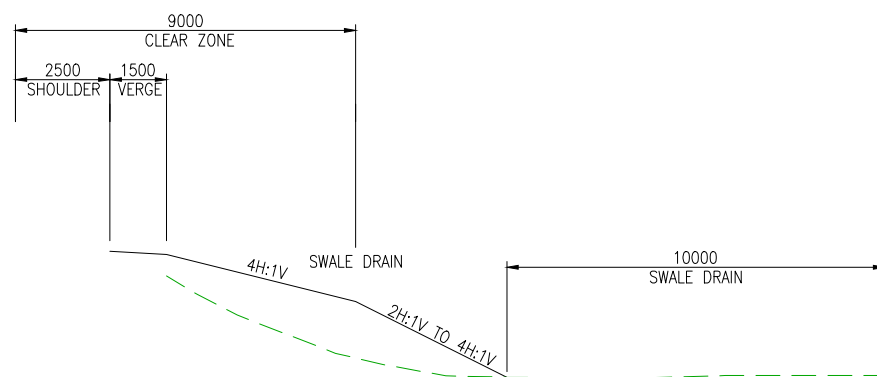
Project	
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet	
TYPICAL CROSS SECTION SHEET 1 OF 2	
Drawing No.	Sheet No. / Revision
5/2664/1/5504	GM09 R1

### PRELIMINARY EARTHWORKS CROSS SECTIONS

**CUT EMBANKMENT**  
(REFER TO NOTE BELOW)

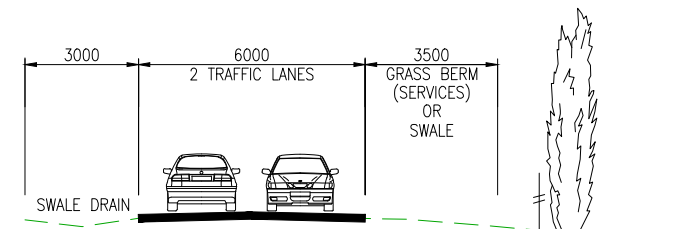


**FILL EMBANKMENT**

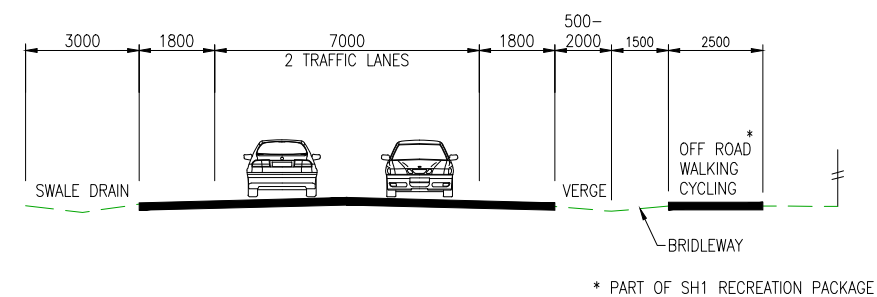


### TYPICAL LOCAL ROAD CROSS SECTIONS

**NEW LOCAL ACCESS ROAD**



**NEW LOCAL ARTERIAL**



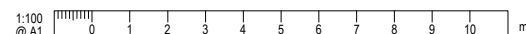
**NOTES:**

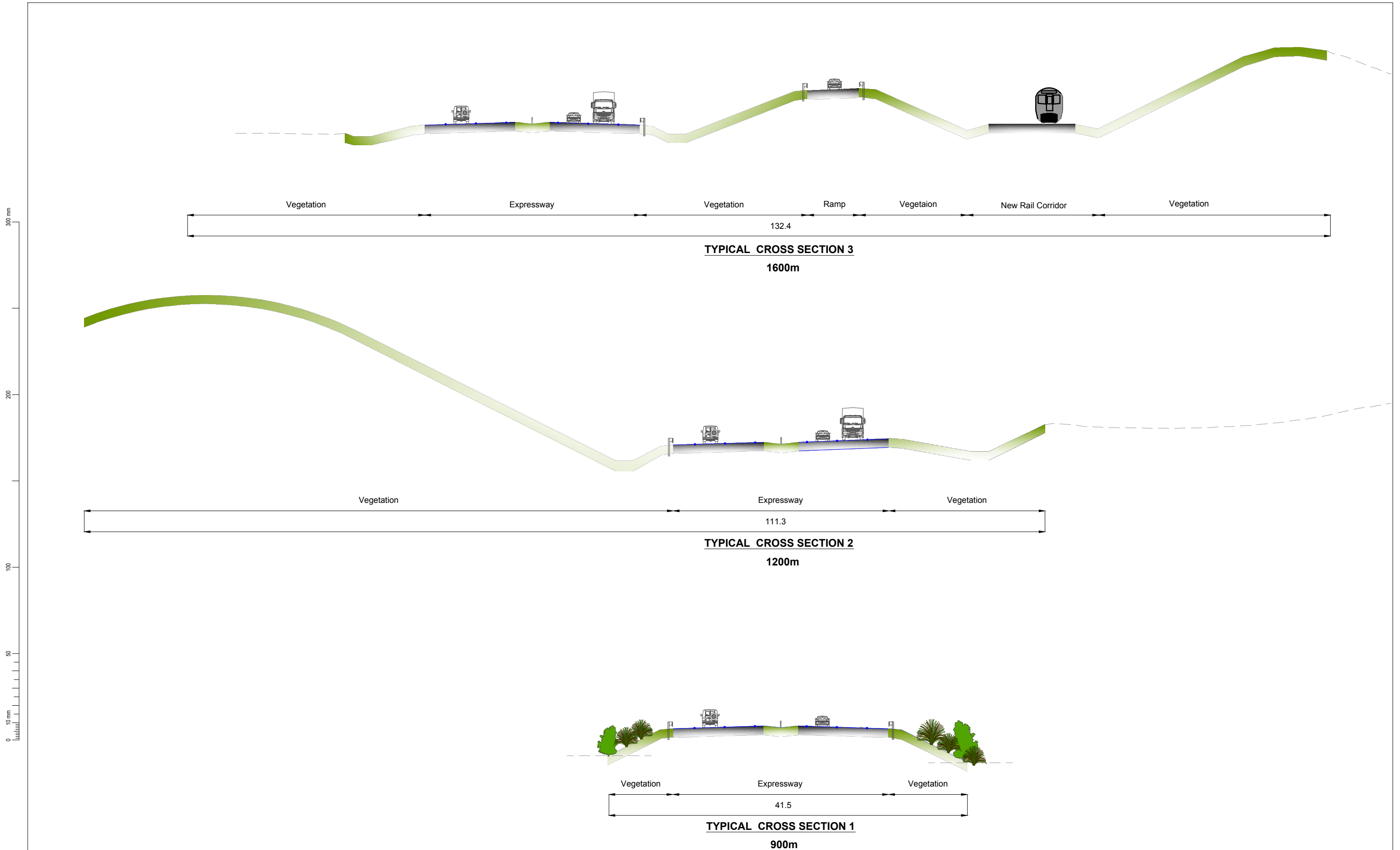
1. IN LOCATIONS WITH SWALES A FLAT INVERT WOULD BE INCLUDED.

Revision	Amendment	Approved	Revision Date
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Project			
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT			
Sheet			
TYPICAL CROSS SECTION SHEET 2 OF 2			
Drawn	Designed	Approved	Revision Date
CAD	MAE	T.COULMAN	09/2011
Project No.	Scale	Drawing No.	Sheet No. Revision
5C1814.00	1:100(A1), 1:200A3	5/2664/1/5504	GM10 R1



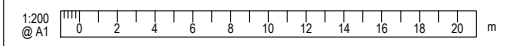


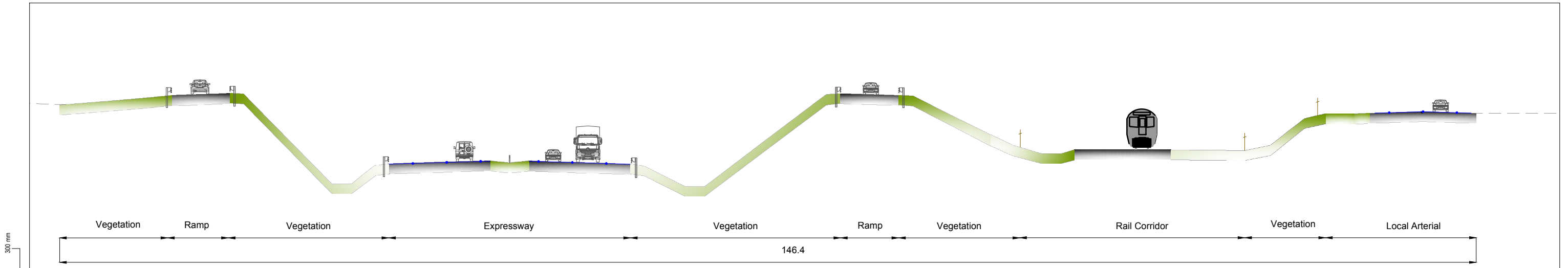
Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



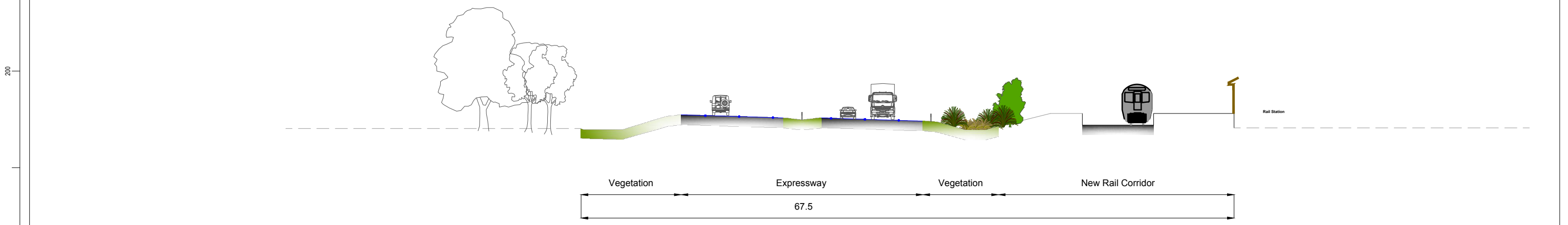
Drawn	Designed	Approved	Revision Date
MAE	MAE	T.COULMAN	09/2011
Project No.	Scale		Drawing No.
5C1814.00	1:200(A1), 1:400(A3)		5/2664/1/5504

Project NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet ROAD SECTIONS SHEET 1 OF 5	
Sheet No.	Revision
GM11	R1

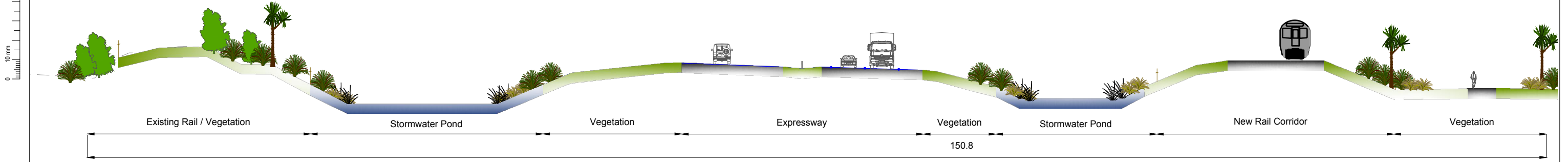




**TYPICAL CROSS SECTION 6**  
4050m



**TYPICAL CROSS SECTION 5**  
2350m



**TYPICAL CROSS SECTION 4**  
1900m

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

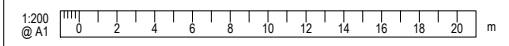


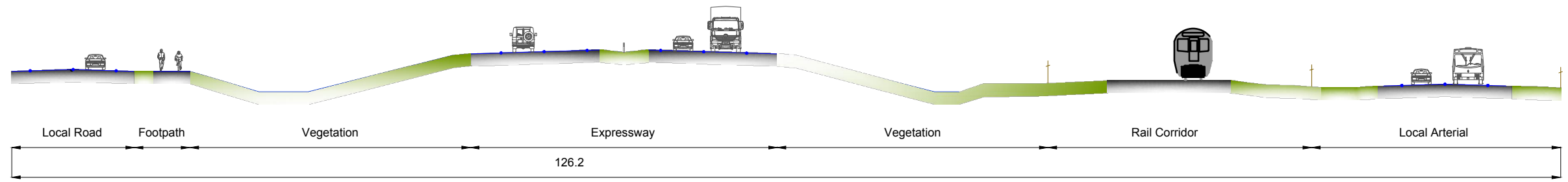
Project  
NEW ZEALAND TRANSPORT AGENCY  
PEKA PEKA TO NORTH OTAKI EXPRESSWAY  
SCHEME ASSESSMENT

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

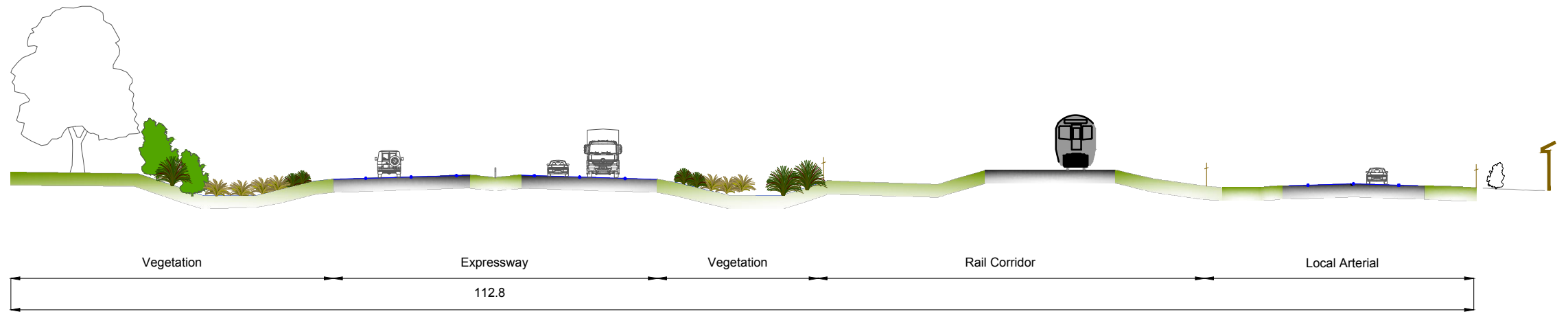
Sheet  
**ROAD SECTIONS**  
**SHEET 2 OF 5**

Project No.	Scale	Drawing No.	Sheet No.	Revision
5C1814.00	1:200(A1), 1:400(A3)	5/2664/1/5504	GM12	R1

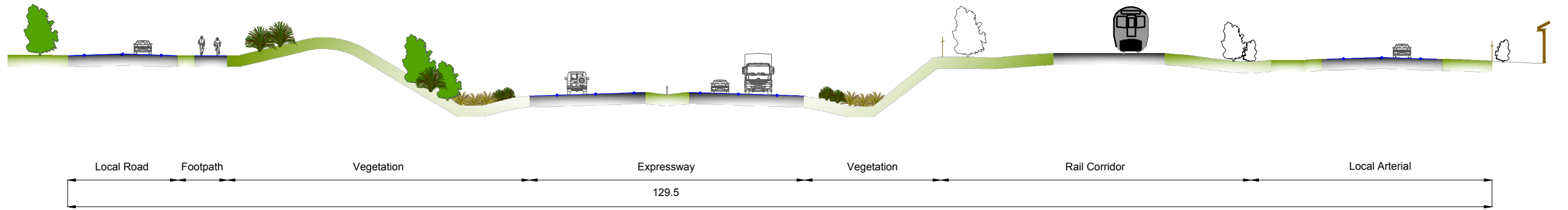




**TYPICAL CROSS SECTION 9**  
7700m

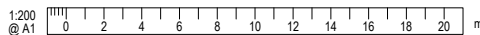


**TYPICAL CROSS SECTION 8**  
6000m



**TYPICAL CROSS SECTION 7**  
4700m

300 mm  
200  
100  
0 10 mm



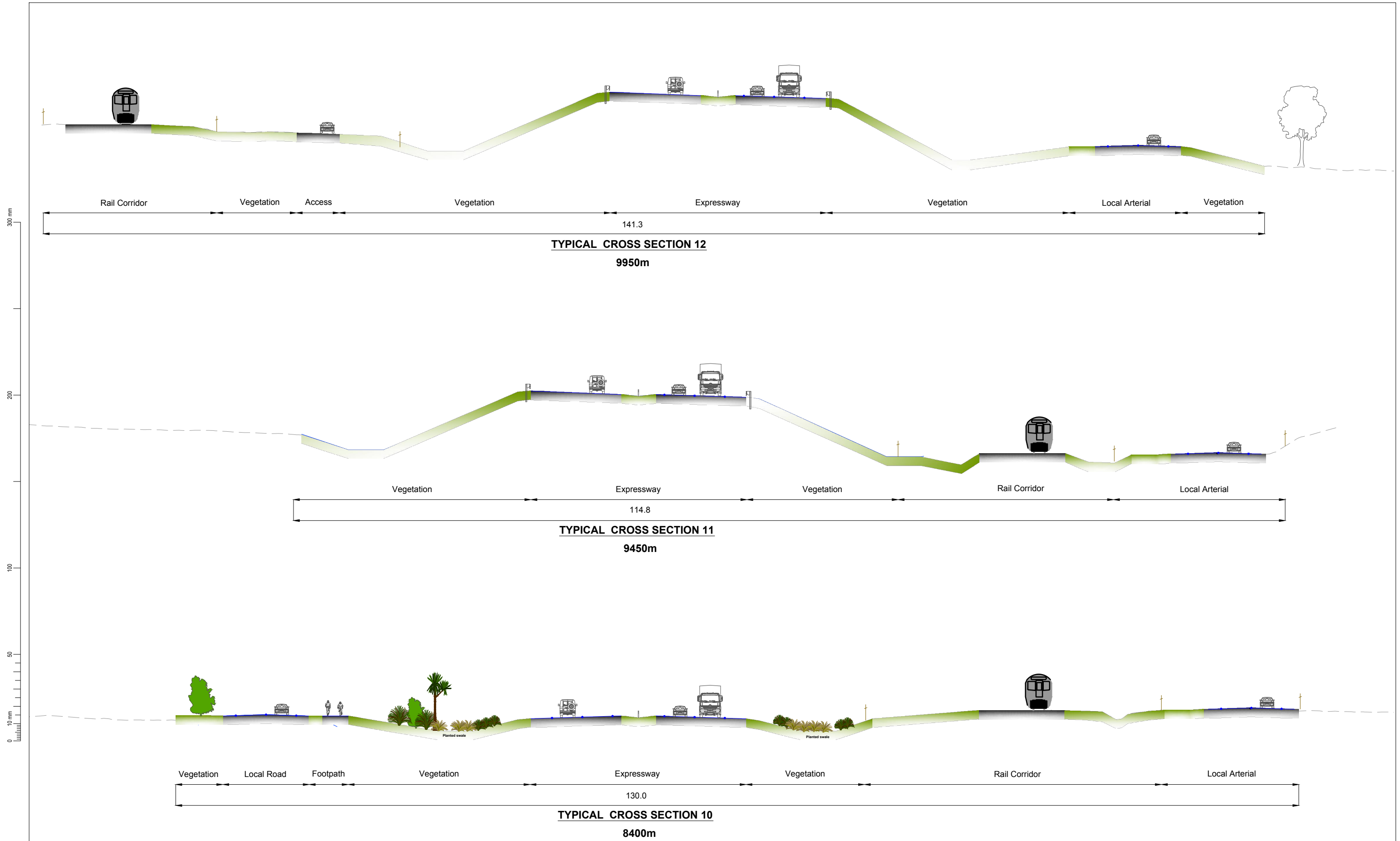
Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



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

Project No.	Scale
5C1814.00	1:200(A1), 1:400(A3)

Project	
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet	
ROAD SECTIONS SHEET 3 OF 5	
Drawing No.	Sheet No.
5/2664/1/5504	GM13
Revision	R1

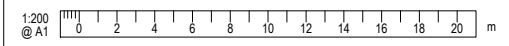


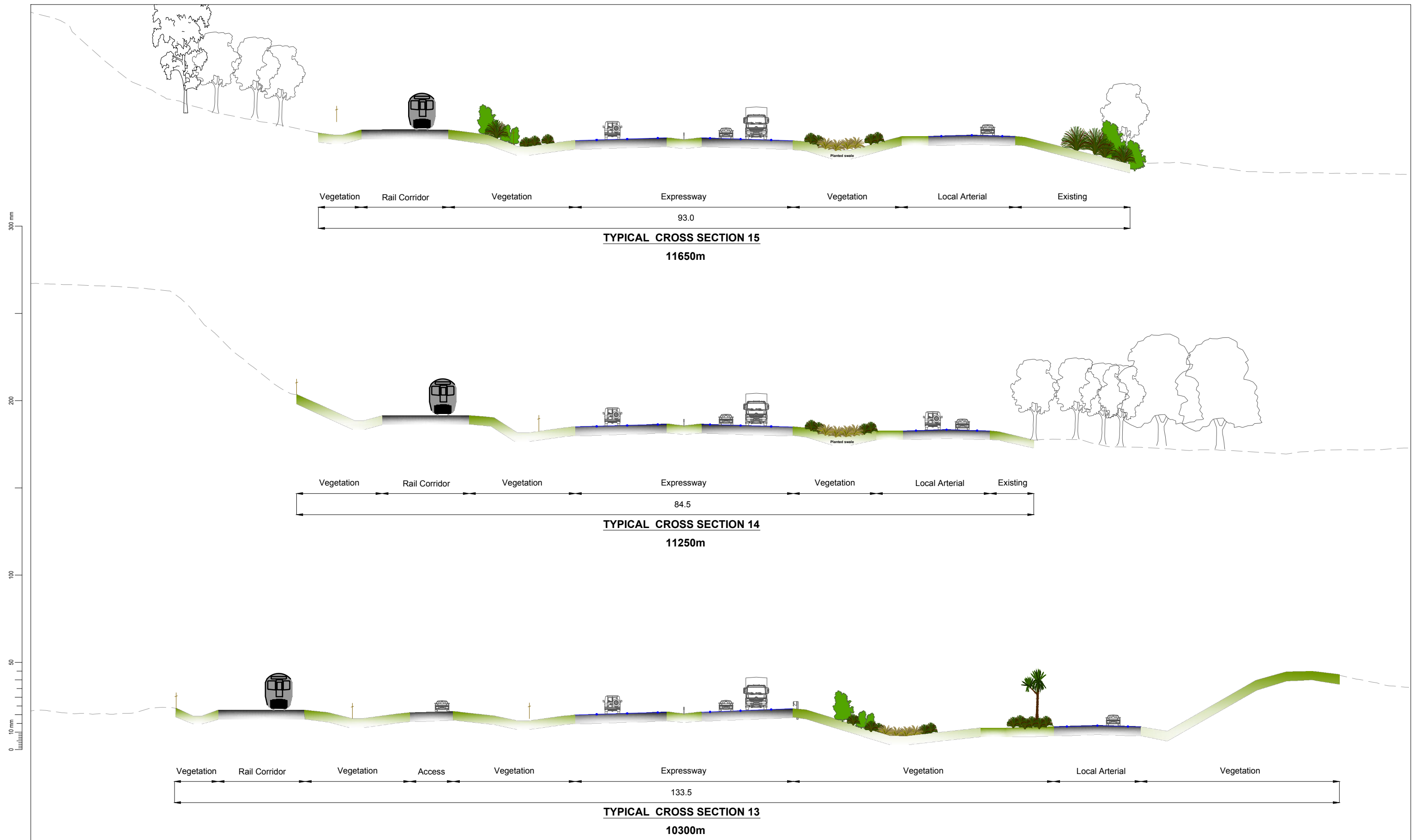
Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



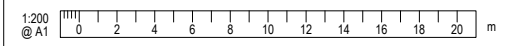
Drawn	Designed	Approved	Revision Date
MAE	MAE	T.COULMAN	09/2011
Project No.	Scale		Revision
5C1814.00	1:200(A1), 1:400(A3)		5/2664/1/5504

Project NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet ROAD SECTIONS SHEET 4 OF 5	
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Revision R1	





300 mm  
200  
100  
50  
0  
10 mm



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

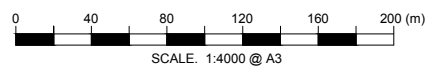
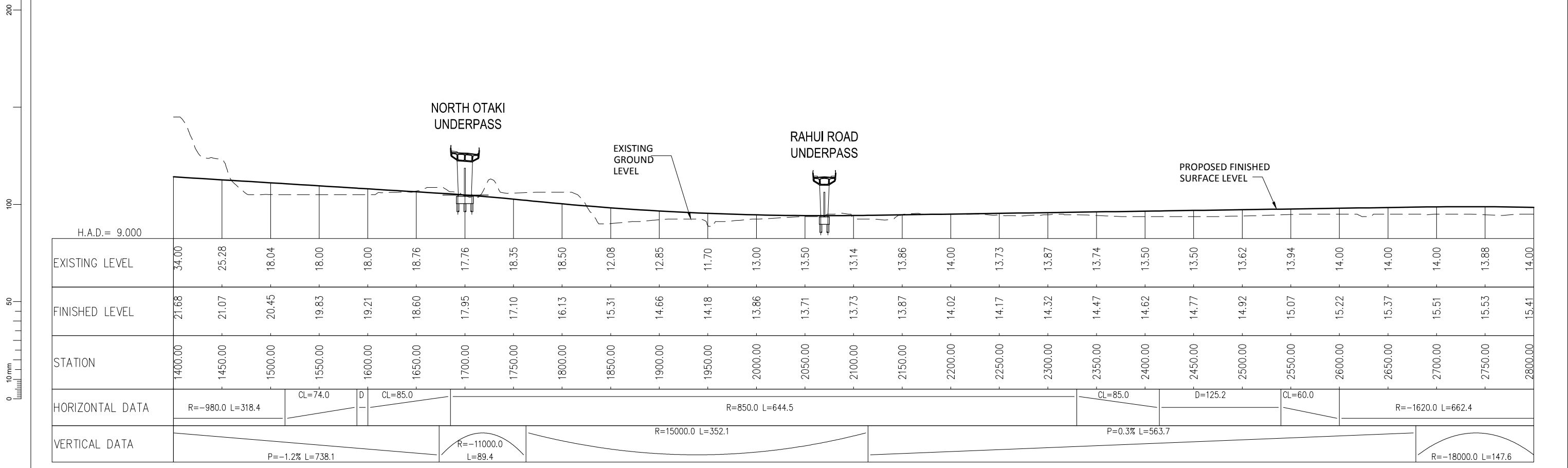
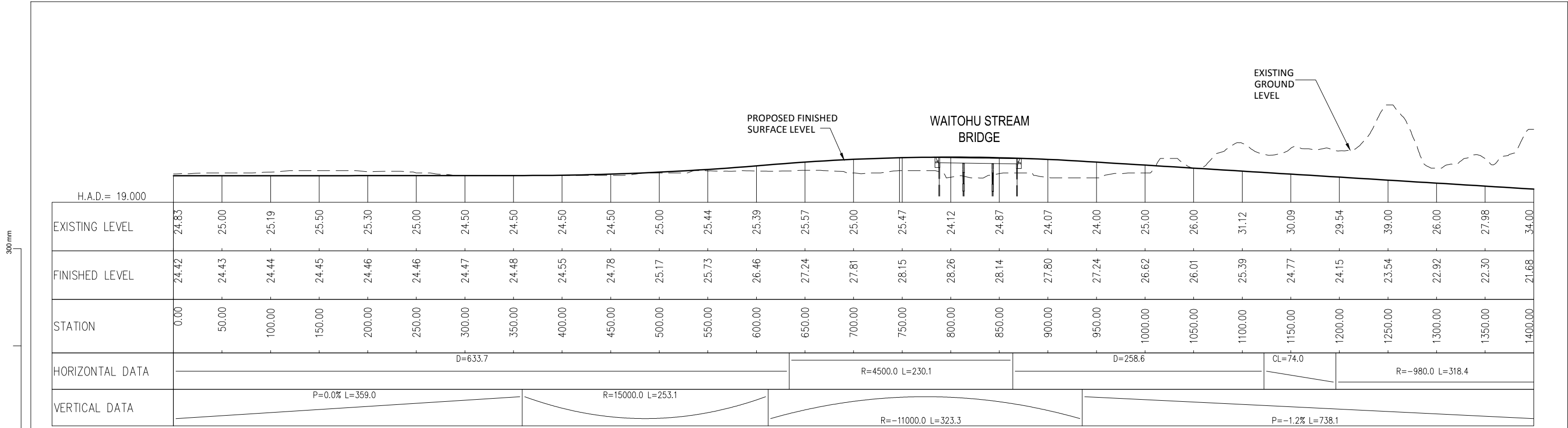


Drawn	Designed	Approved	Revision Date
MAE	MAE	T.COULMAN	09/2011
Project No.	Scale		Drawing No.
5C1814.00	1:200(A1), 1:400(A3)		5/2664/1/5504

Project NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet ROAD SECTIONS SHEET 5 OF 5	
Sheet No.	Revision
GM15	R1







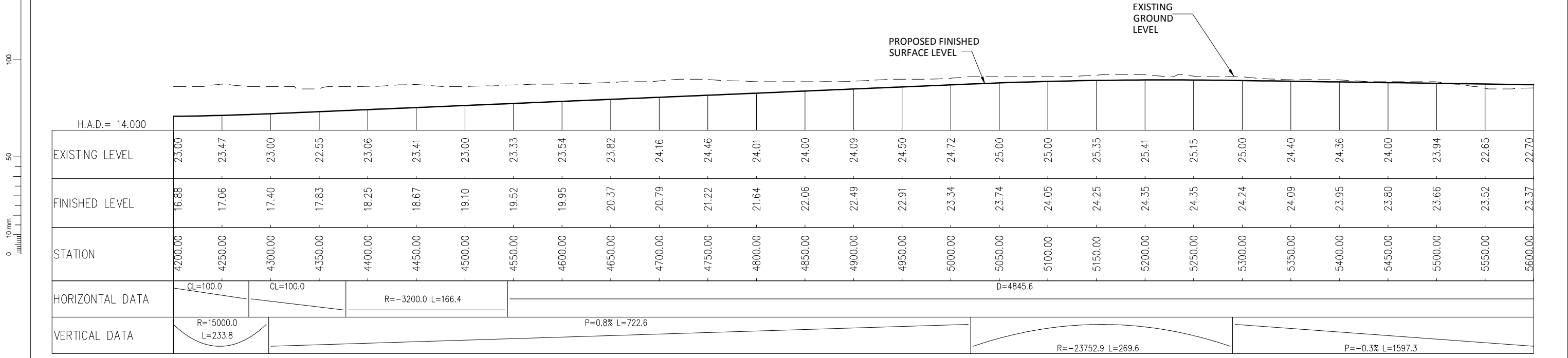
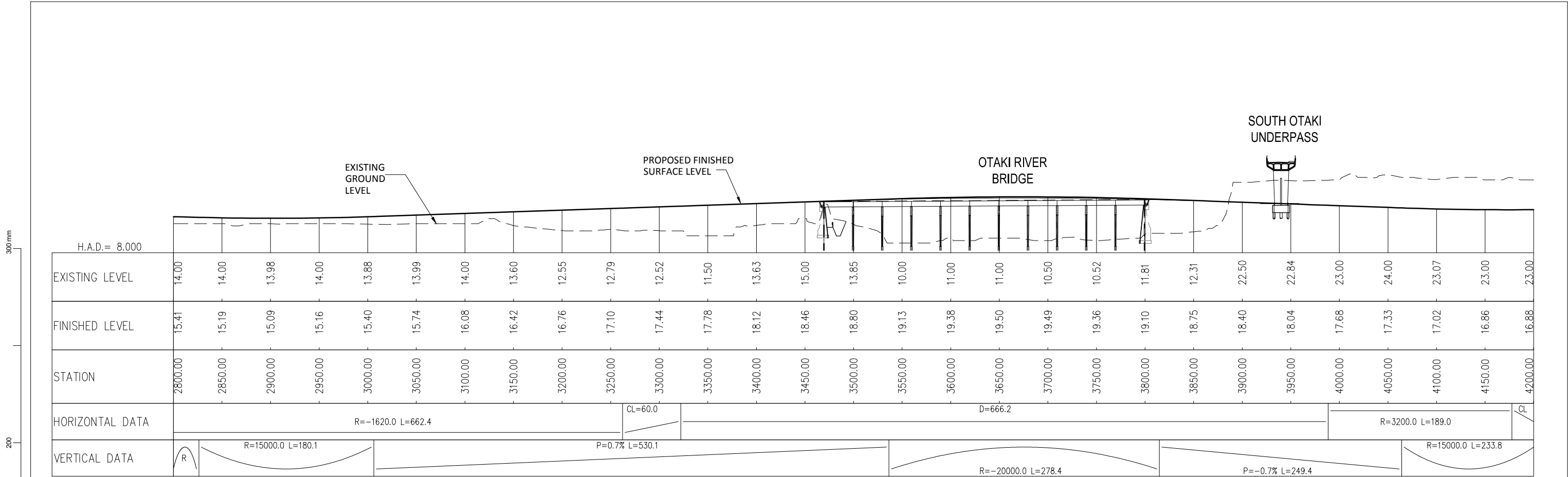
Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011
Project No.	Scale	Drawing No.	Sheet No.
5C1814.00	1:2000(A1), 1:4000(A3)	5/2664/1/5504	GM20 R1

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

Sheet  
**MAIN ALIGNMENT - LONGITUDINAL PROFILE**  
**SHEET 1 OF 5**



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



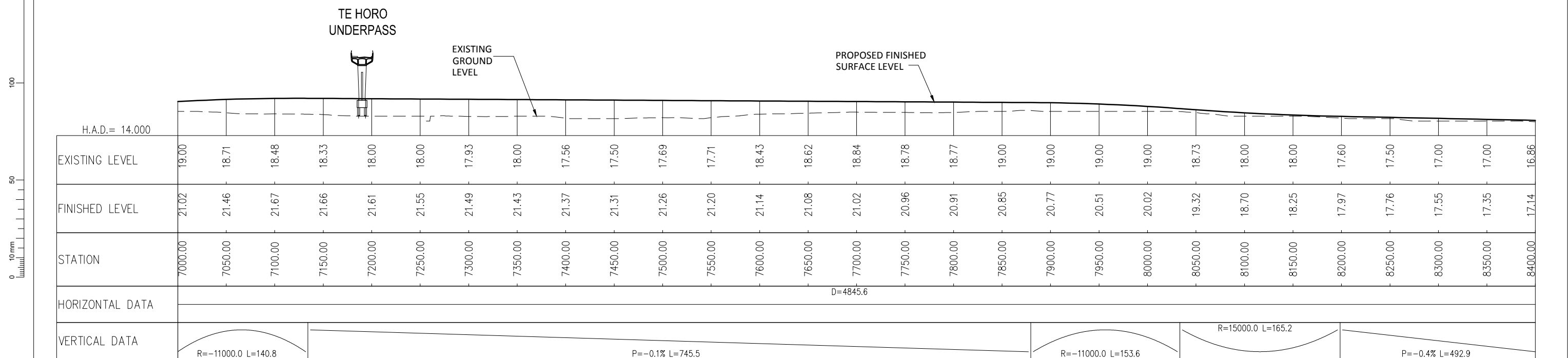
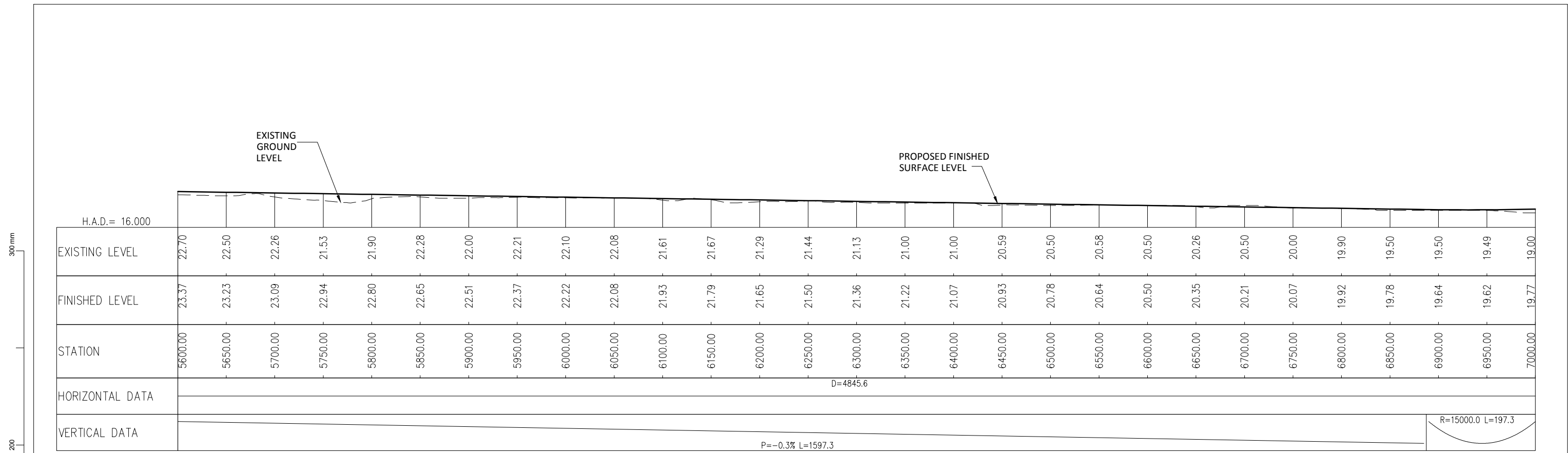
Project  
**NEW ZEALAND TRANSPORT AGENCY**  
**PEKA PEKA TO NORTH OTAKI EXPRESSWAY**  
**SCHEME ASSESSMENT**

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

Sheet  
**MAIN ALIGNMENT - LONGITUDINAL PROFILE**  
**SHEET 2 OF 5**

Project No.	Scale
5C1814.00	1:2000(A1), 1:4000(A3)

Drawing No.	Sheet No.	Revision
5/2664/1/5504	GM21	R1

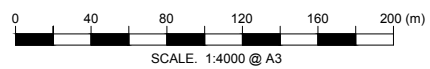
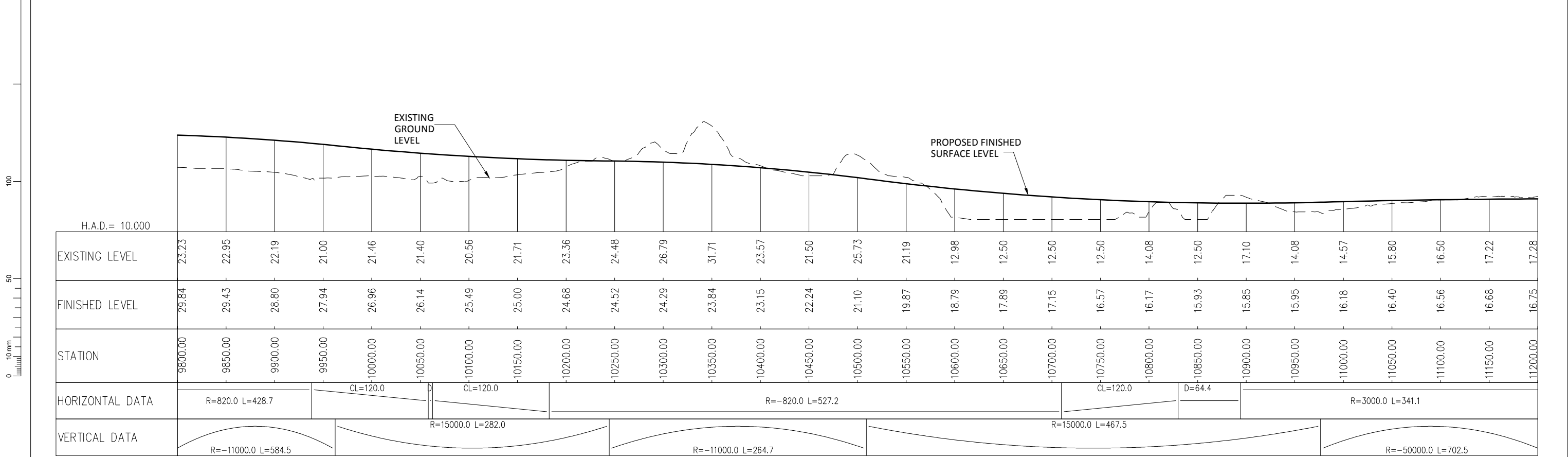
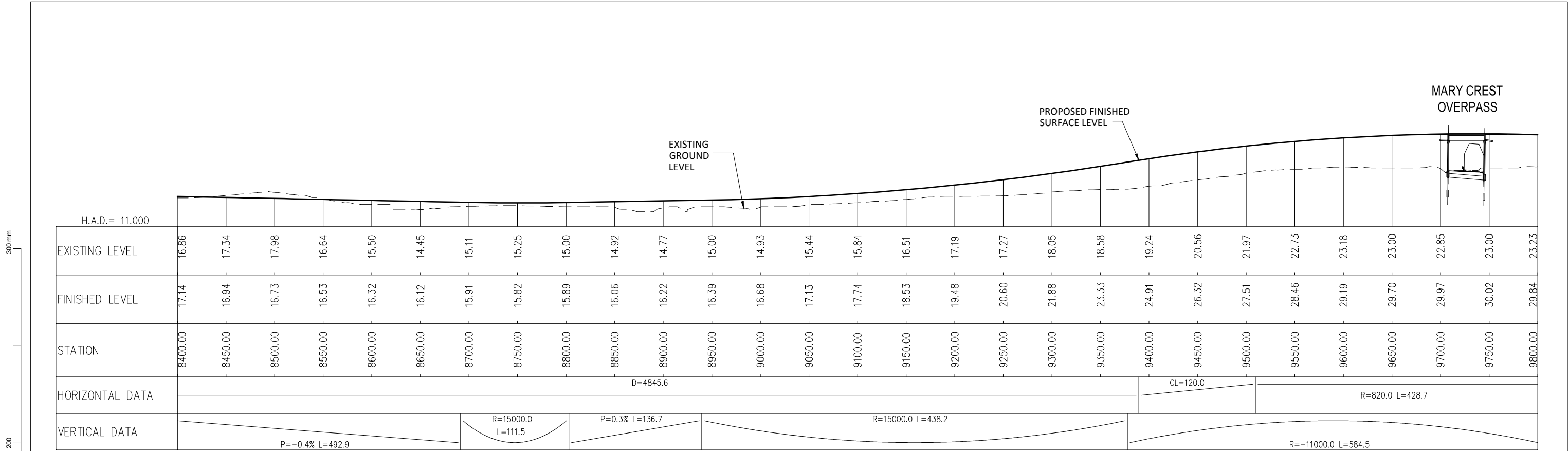


Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12



Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011
Project No.	Scale	Drawing No.	
5C1814.00	1:2000(A1), 1:4000(A3)	5/2664/1/5504	

Project	
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT	
Sheet	
MAIN ALIGNMENT - LONGITUDINAL PROFILE SHEET 3 OF 5	
Sheet No.	Revision
GM22	R1

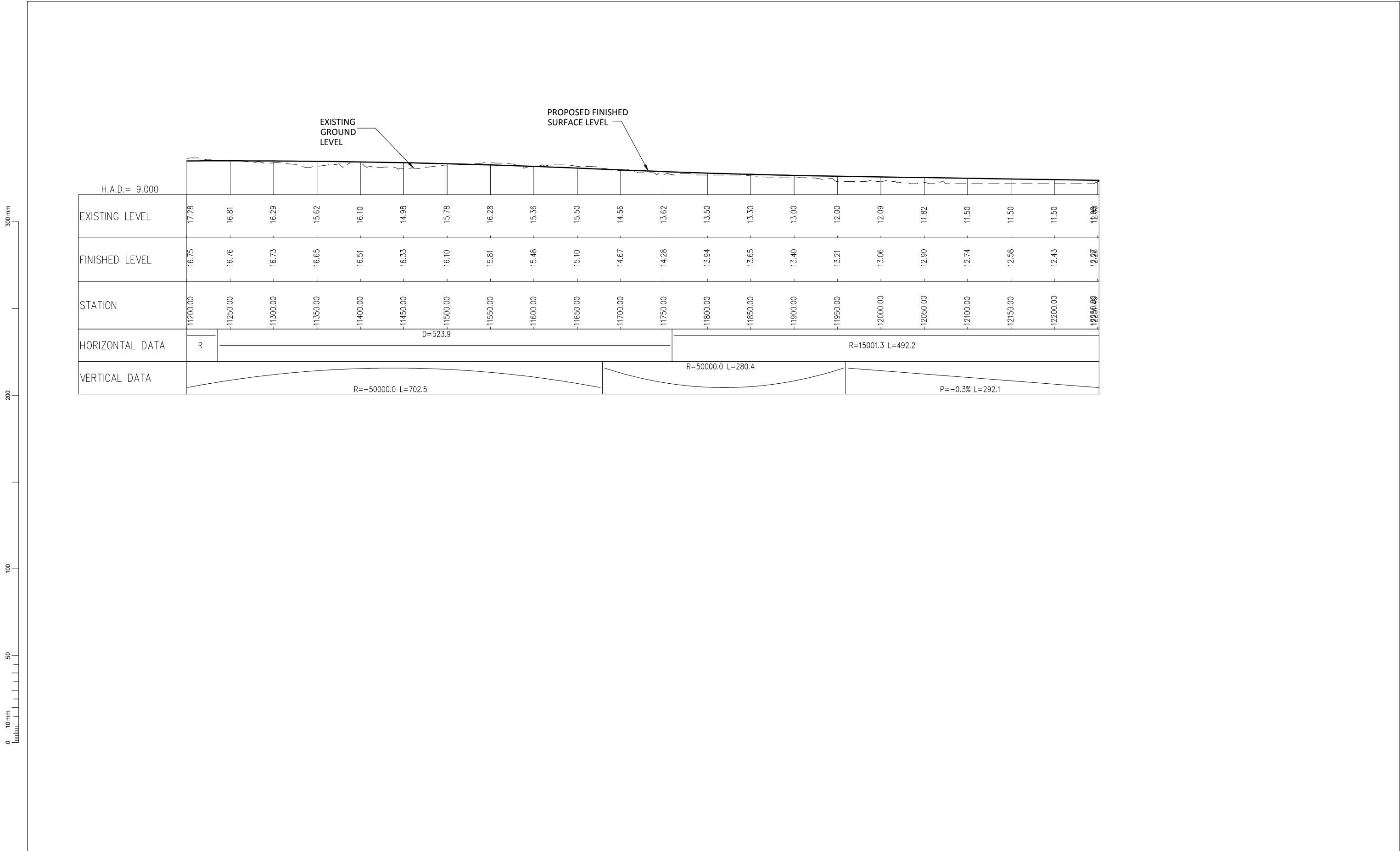


Revision	Amendment	Approved	Revision Date
R1	REVISION FOR SARA	GM	15/03/12

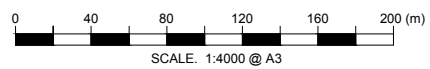


Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011
Project No.	Scale		Drawing No.
5C1814.00	1:2000(A1), 1:4000(A3)		5/2664/1/5504

Project NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY SCHEME ASSESSMENT			
Sheet MAIN ALIGNMENT - LONGITUDINAL PROFILE SHEET 4 OF 5			
Sheet No.	Revision		
GM23	R1		



0 10 mm  
50  
100  
200  
300 mm



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	Drawing No.	Sheet No.
5C1814.00	1:2000(A1), 1:4000(A3)	5/2664/1/5504	GM24 R1

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

Sheet  
 MAIN ALIGNMENT - LONGITUDINAL PROFILE  
 SHEET 5 OF 5