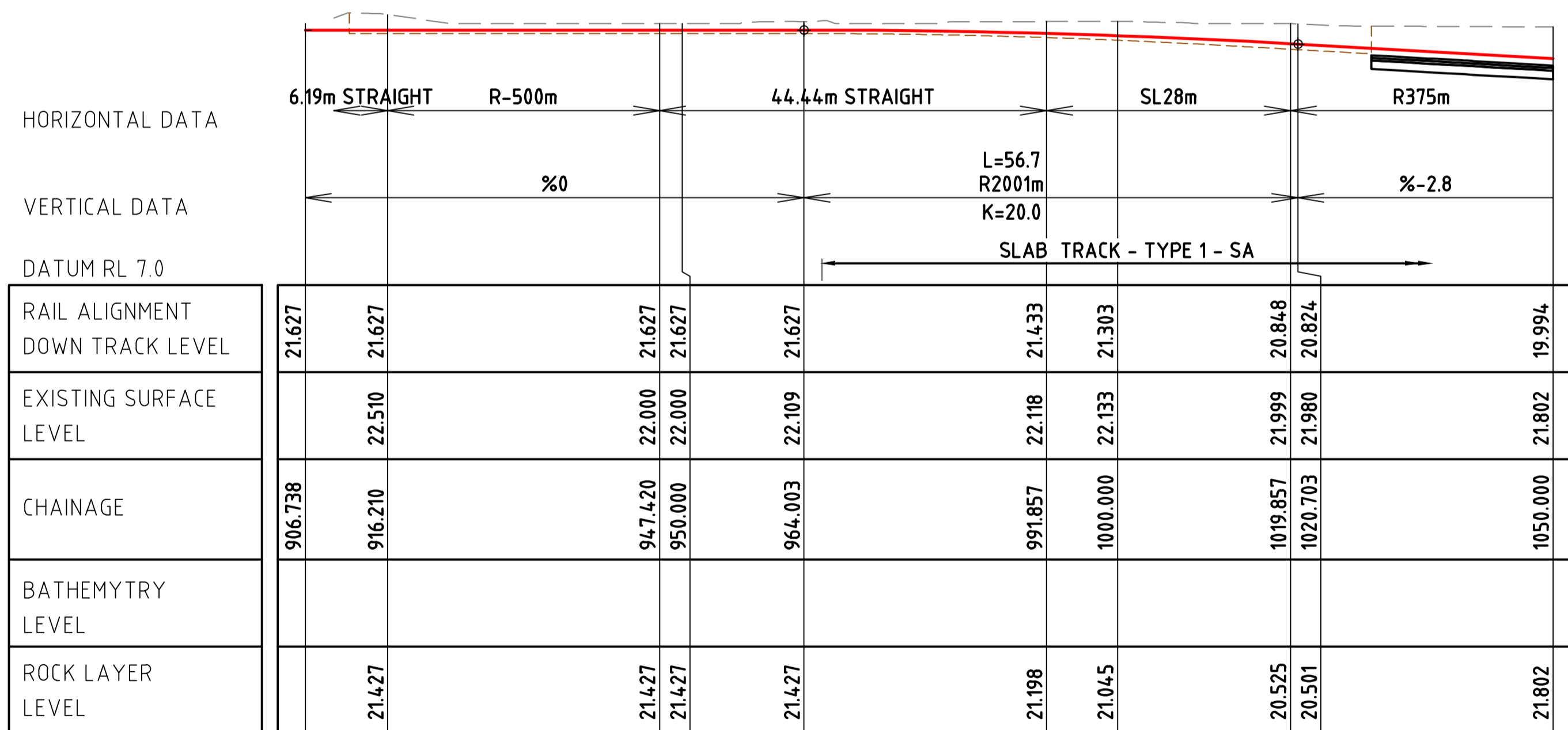


DUTTON PARK STATION
PEDESTRIAN BRIDGE

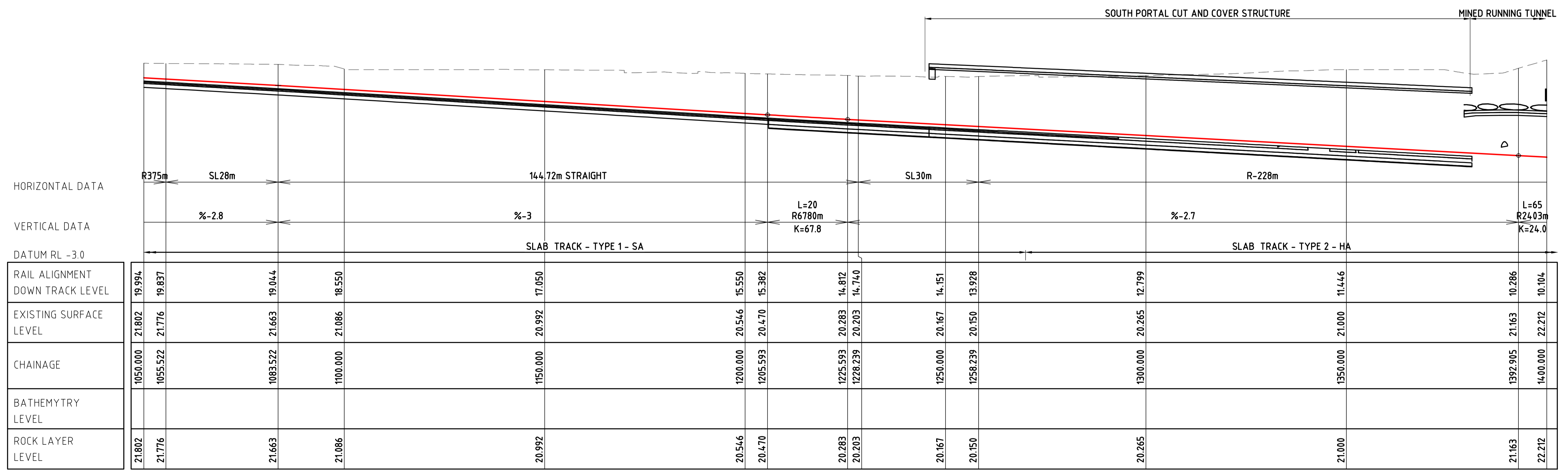


LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND	
	EXISTING SURFACE LEVEL
	PROPOSED LOW RAIL LEVEL
	BRISBANE RIVER BATHYMETRY
	ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-100

				Associated Job Nos	Survey Data	Scales	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)					RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 1						
					Datum		BCSG02	Reference Points Preceding RP Dist. to start of job (km) From start to end of job From end to Following RP Following RP					ENGINEERING CERTIFICATION (RPEQ)					
				Auxiliary Drg Nos	Horiz. Grid								NOT TO SCALE					ENG. AREA
A RIPC4 ISSUE					Height Origin		Dimensions shown in metres except where shown otherwise					Drawn Designed					Series Number of A	
Revisions/Descriptions				Certification	Date	Survey Books												
CAD FILES CRR-0003-LS-GA-100.dwg							Last Modified :- May 01, 2019 - 5:29PM										MRR_Detail (02/14)	



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -3.0

	1050.000	1055.522	1083.522	1100.000	1150.000	1200.000	1205.593	1225.593	1228.239	1250.000	1258.239	1300.000	1350.000	1392.905	1400.000
RAIL ALIGNMENT DOWN TRACK LEVEL	19.994	19.837	19.044	18.550	17.050	15.550	15.382	14.812	14.740	14.151	13.928	12.799	11.446	10.286	10.104
EXISTING SURFACE LEVEL	21.802	21.776	21.663	21.086	20.992	20.546	20.470	20.283	20.203	20.167	20.150	20.265	21.000	21.163	22.212
CHAINAGE	1050.000	1055.522	1083.522	1100.000	1150.000	1200.000	1205.593	1225.593	1228.239	1250.000	1258.239	1300.000	1350.000	1392.905	1400.000
BATHYMETRY LEVEL															
ROCK LAYER LEVEL	21.802	21.776	21.663	21.086	20.992	20.546	20.470	20.283	20.203	20.167	20.150	20.265	21.000	21.163	22.212

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND

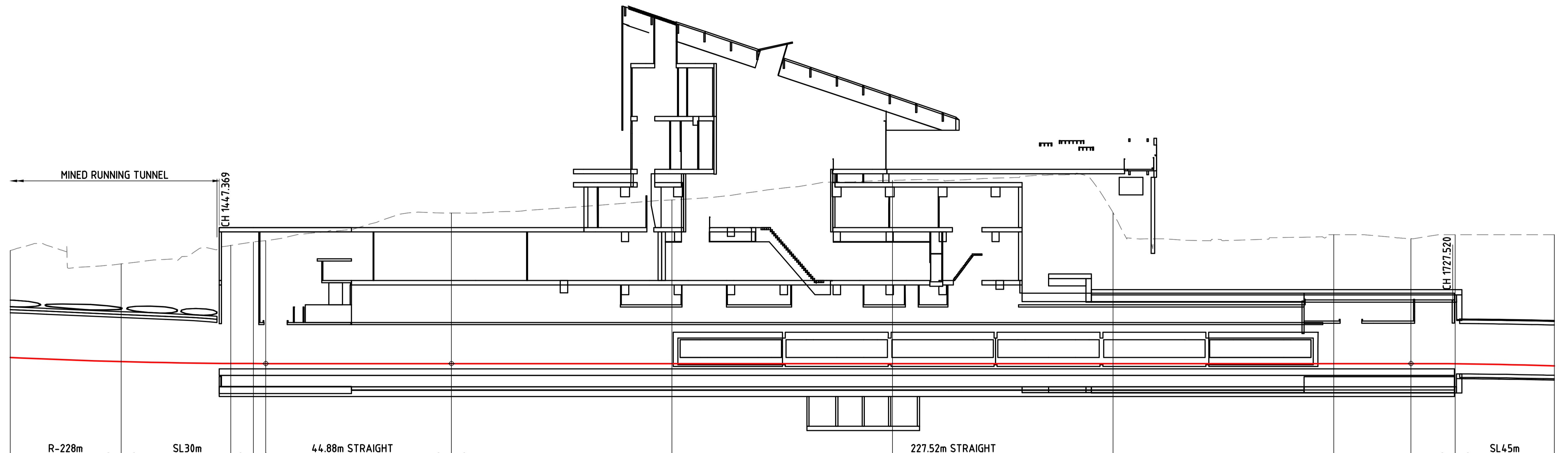
- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-101

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 2					Job No.		
		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Contract No.		
Auxiliary Drg Nos		Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
		Height Origin				Dist. to start of job (km)									DATE	
		Survey Books				From start to end of job									Drawing No.	
						From end to Following RP									Series Number	
A RIPC4 ISSUE		24.04.19				Following RP									of	
Revisions/Descriptions		Certification		Date		Through Chainage from									MRR_Detail (02/14)	
CAD FILES CRR-0003-LS-GA-101.dwg						Last Modified :- May 01, 2019 - 5:14PM										



BOGGO ROAD STATION



HORIZONTAL DATA	R-228m	SL30m	44.88m STRAIGHT	%	227.52m STRAIGHT	SL45m
VERTICAL DATA	L=65 R2403m K=24.0					L=57 R2030m K=20.3
DATUM RL -11.0	SLAB TRACK - TYPE 2 - HA				SLAB TRACK - TYPE 3 - VHA	

RAIL ALIGNMENT DOWN TRACK LEVEL	10.104	9.630	9.420	9.408	9.407	9.407	9.407	9.407	9.407	9.407	9.382	9.147	
EXISTING SURFACE LEVEL	22.212	20.693	22.788	23.182	23.326	26.457	27.943	30.166	26.480	24.000	23.552	24.000	
CHAINAGE	1400.000	1425.124	1450.000	1455.124	1457.905	1500.000	1550.000	1600.000	1650.000	1700.000	1717.520	1727.520	1750.000
BATHYMETRY LEVEL													
ROCK LAYER LEVEL	22.212	20.693	22.788	23.182	23.326	26.457	27.943	30.166	26.480	24.000	23.552	24.000	24.000

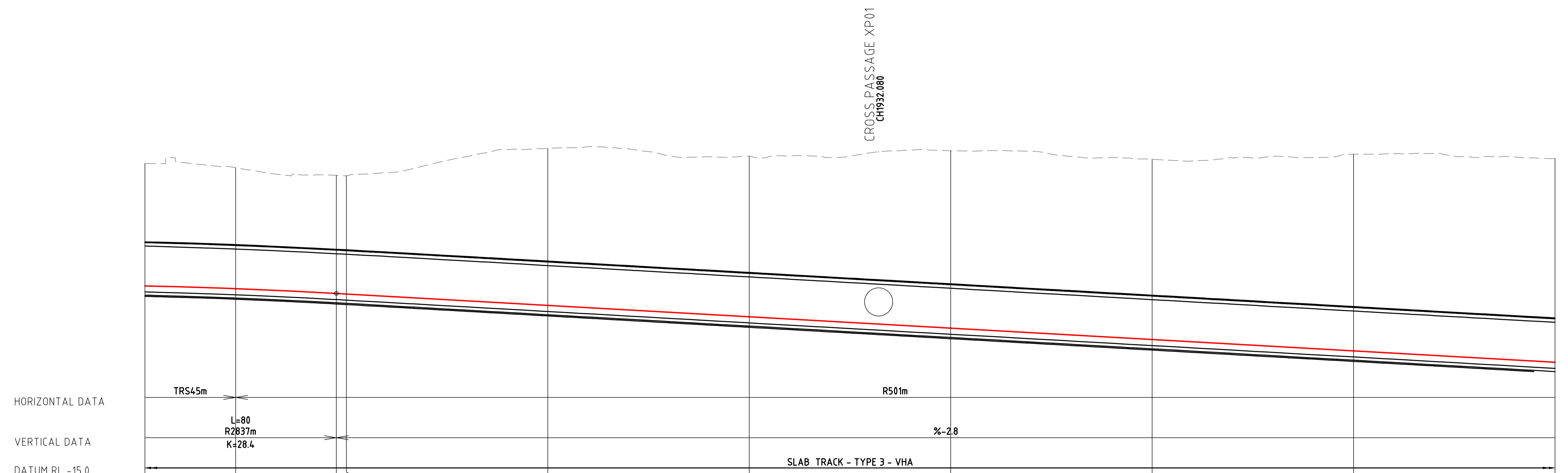
LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-102

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 3							
Auxiliary Drg Nos		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)				Job No.			
		Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		Contract No.	
		Height Origin				Dist. to start of job (km)			NO.		DATE		Drawing No.		A	
		Survey Books				From start to end of job			DESIGNED				Series Number		of	
A RIPC4 ISSUE		24.04.19				From end to Following RP									MRR_Detail (02/14)	
Revisions/Descriptions		Certification		Date		Following RP										
CAD FILES CRR-0003-LS-GA-102.dwg				Microfiled		Through Chainage from										
						Last Modified :- May 01, 2019 - 5:14PM										



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -15.0

	1750.000	1772.520	1797.520	1800.000	1850.000	1900.000	1950.000	2000.000	2050.000	2100.000
RAIL ALIGNMENT DOWN TRACK LEVEL	8.827	8.480	7.885	7.815	6.405	4.995	3.586	2.176	0.766	-0.644
EXISTING SURFACE LEVEL	24.000	23.484	22.531	22.495	25.900	24.911	25.578	24.550	25.158	24.624
CHAINAGE	1750.000	1772.520	1797.520	1800.000	1850.000	1900.000	1950.000	2000.000	2050.000	2100.000
BATHYMETRY LEVEL										
ROCK LAYER LEVEL	24.000	23.484	22.531	22.495	25.900	24.911	25.578	24.550	25.158	24.624

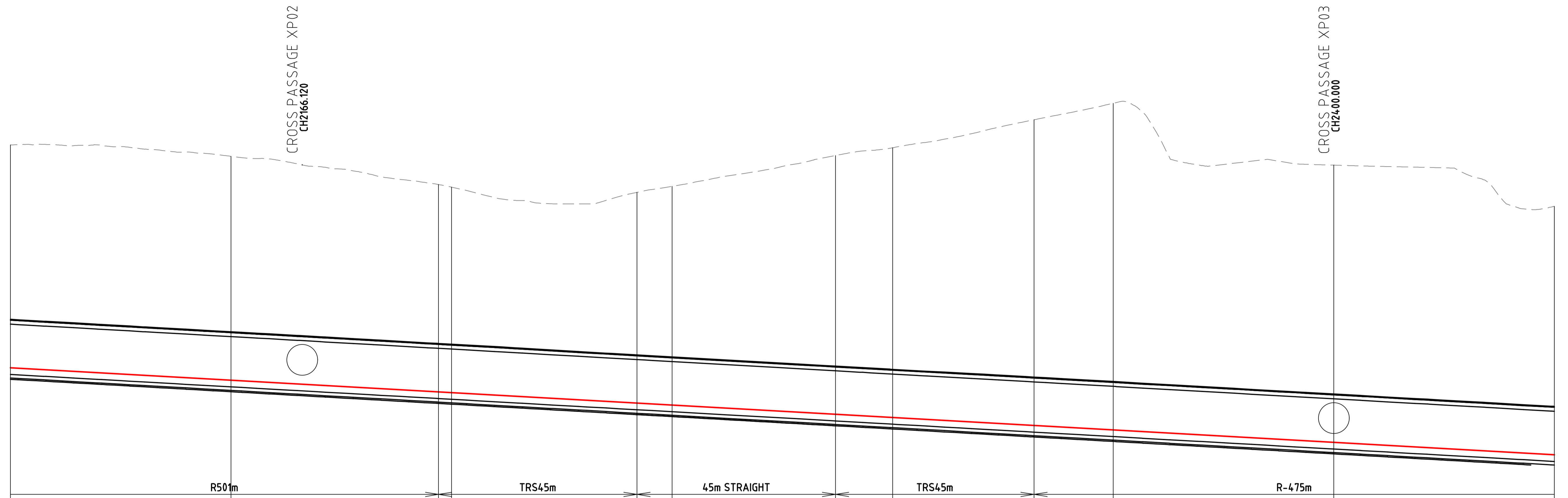
LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-103

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 4							
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Job No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		Contract No.	
				Height Origin				Dist. to start of job (km)			NO.		DATE		Drawing No.			
A RIPC4 ISSUE				24.04.19				From start to end of job			Designed						Series Number	
Revisions/Descriptions				Certification		Date		Following RP									of	
CAD FILES CRR-0003-LS-GA-103.dwg						Microfiled		Through Chainage from									MRR_Detail (02/14)	
						Last Modified :- May 01, 2019 - 5:13PM												



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -25.0

RAIL ALIGNMENT DOWN TRACK LEVEL	-0.644	-2.054	-3.381	-3.464	-4.649	-4.873	-5.918	-6.283	-7.187	-7.693	-9.103	-10.513
EXISTING SURFACE LEVEL	24.624	23.343	20.137	19.848	19.253	19.926	23.432	24.307	27.481	29.350	22.336	17.670
CHAINAGE	2100.000	2150.000	2197.060	2200.000	2242.060	2250.000	2287.060	2300.000	2332.060	2350.000	2400.000	2450.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	24.624	23.343	20.137	19.848	19.253	19.926	23.432	24.307	27.481	29.350	22.336	17.670

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

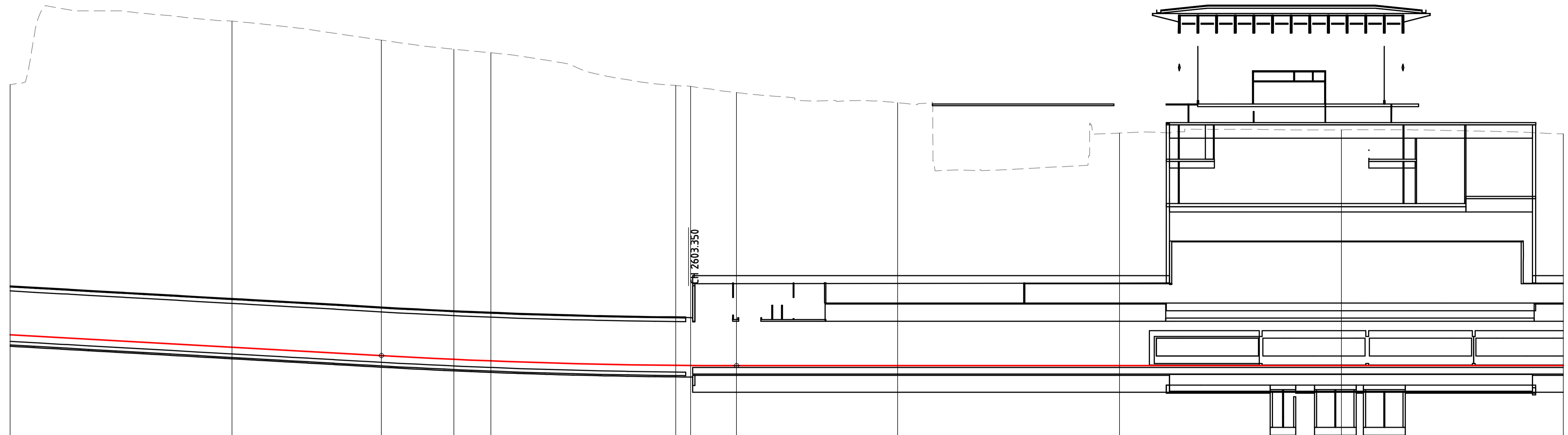
LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-104

				Associated Job Nos	Survey Data	Scales	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)					RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 5							
				Auxiliary Drg Nos	Datum BCSG02		NOT TO SCALE	Reference Points					ENGINEERING CERTIFICATION (RPEQ)						Job No.
					Horiz. Grid			Dimensions shown in metres except where shown otherwise	Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Contract No.
					Height Origin														Drawing No.
A RIPC4 ISSUE 24.04.19					Survey Books		Through Chainage from										Series Number	of	
CAD FILES CRR-0003-LS-GA-104.dwg							Last Modified :- May 01, 2019 - 5:13PM										MRR_Detail (02/14)		

WOOLLOONGABBA STATION



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -35.0

R-4.75m	TRS45m	L=80 R2837m K=28.4	700.88m STRAIGHT
%-2.8			%0
SLAB TRACK - TYPE 3 - VHA	SLAB TRACK - TYPE 2 - HA		SLAB TRACK - TYPE 1 - SA

	2450.000	2500.000	2533.680	2550.000	2558.350	2600.000	2603.350	2613.680	2650.000	2700.000	2750.000	2800.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-10.513	-11.922	-12.872	-13.285	-13.460	-13.967	-13.981	-14.000	-14.000	-14.000	-14.000	-14.000
EXISTING SURFACE LEVEL	17.670	24.839	22.698	21.673	21.278	17.586	17.480	16.788	15.642	12.213	12.565	12.122
CHAINAGE	2450.000	2500.000	2533.680	2550.000	2558.350	2600.000	2603.350	2613.680	2650.000	2700.000	2750.000	2800.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	17.670	24.839	22.698	21.673	21.278	17.586	17.480	16.788	15.642	12.213	12.565	12.122

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

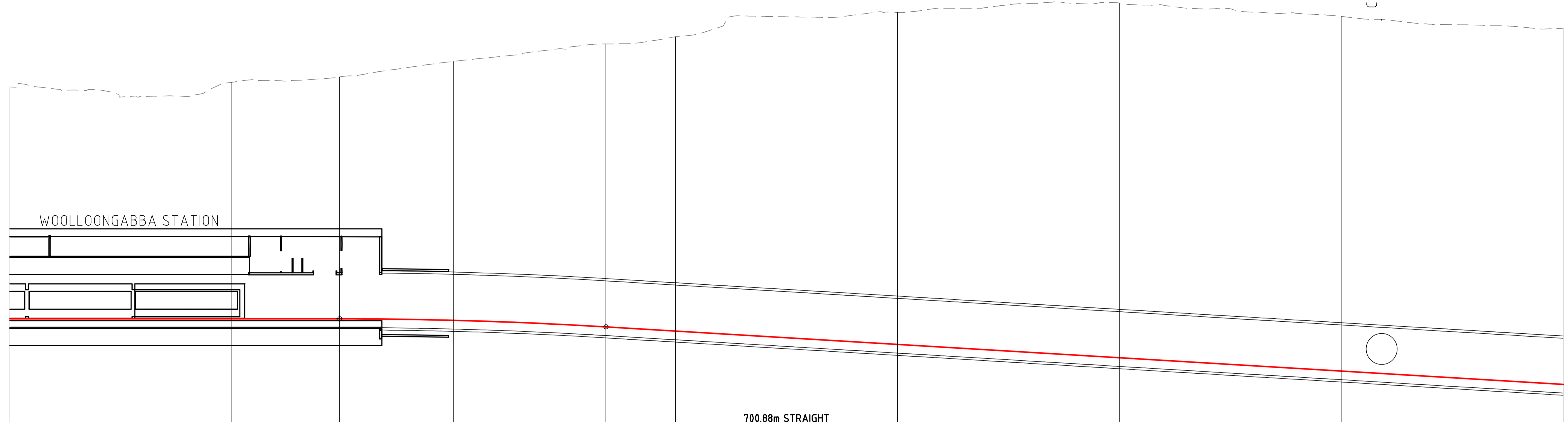
LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-105

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 6					
Auxiliary Drg Nos		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)				Job No.	
		Horiz. Grid				Preceding RP			ENG. AREA				Contract No.	
		Height Origin				Dist. to start of job (km)			NAME				Drawing No.	
		Survey Books				From start to end of job			SIGNATURE				Series Number	
A RIPC4 ISSUE		24.04.19				From end to Following RP			NO.				of	
Revisions/Descriptions		Certification		Date		Following RP			DATE				MRR_Detail (02/14)	
CAD FILES CRR-0003-LS-GA-105.dwg						Through Chainage from								
						Last Modified :- May 01, 2019 - 5:13PM								

CROSS PASSAGE XP04
CH3109.100



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -36.0

	2800.000	2850.000	2874.280	2900.000	2934.280	2950.000	3000.000	3050.000	3100.000	3150.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-14.000	-14.000	-14.000	-14.165	-14.900	-15.372	-16.872	-18.372	-19.872	-21.372
EXISTING SURFACE LEVEL	12.122	12.656	13.266	15.013	16.979	17.785	20.520	21.591	20.083	18.736
CHAINAGE	2800.000	2850.000	2874.280	2900.000	2934.280	2950.000	3000.000	3050.000	3100.000	3150.000
BATHYMETRY LEVEL										
ROCK LAYER LEVEL	12.122	12.656	13.266	15.013	16.979	17.785	20.520	21.591	20.083	18.736

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

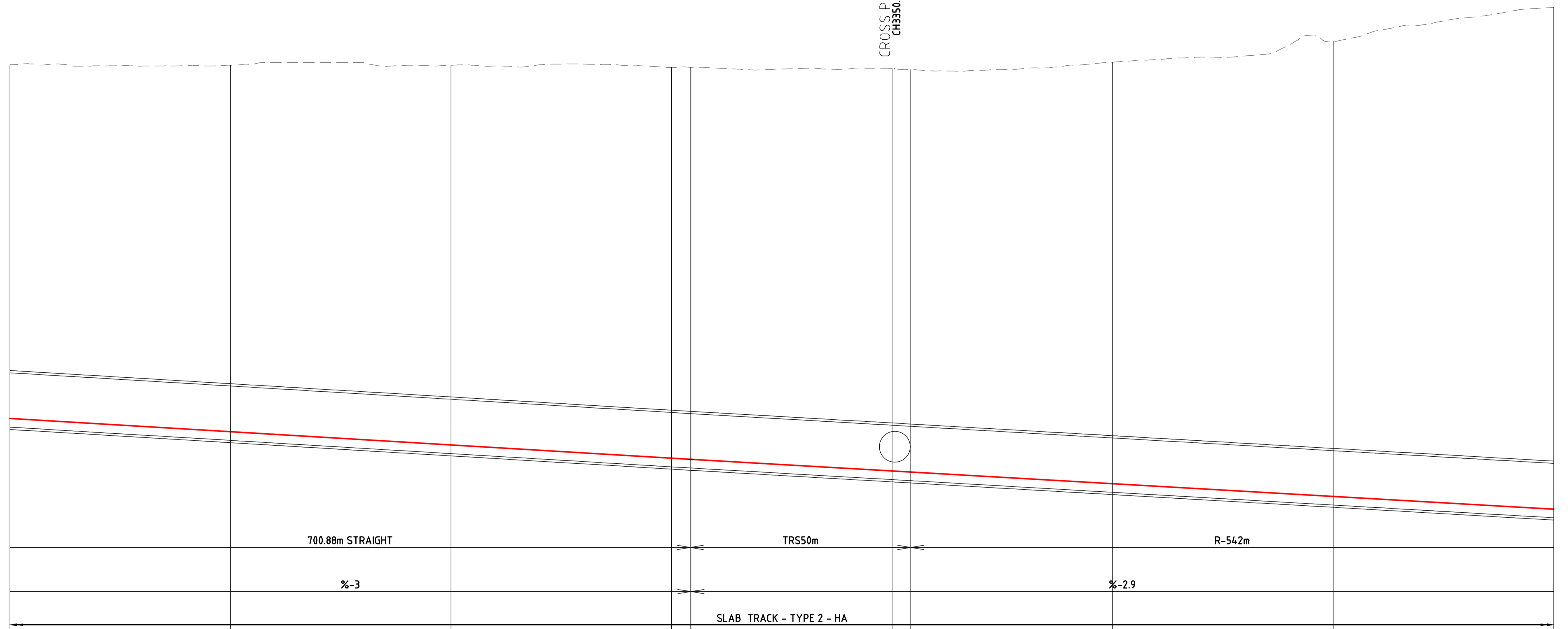
LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-106

				Associated Job Nos	Survey Data	Scales NOT TO SCALE	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)					RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 7							
				Auxiliary Drg Nos	Datum BCSG02		Dimensions shown in metres except where shown otherwise Through Chainage from	Reference Points					ENGINEERING CERTIFICATION (RPEQ)						Job No.
					Horiz. Grid			Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Contract No.	
					Height Origin													Drawing No.	
A RIPC4 ISSUE					Survey Books											Series Number	A		
Revisions/Descriptions				Certification	Date	Microfiled											MRR_Detail (02/14)		
CAD FILES CRR-0003-LS-GA-106.dwg								Last Modified :- May 01, 2019 - 5:12PM											

CROSS PASSAGE XP05
CH3350.580



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -46.0

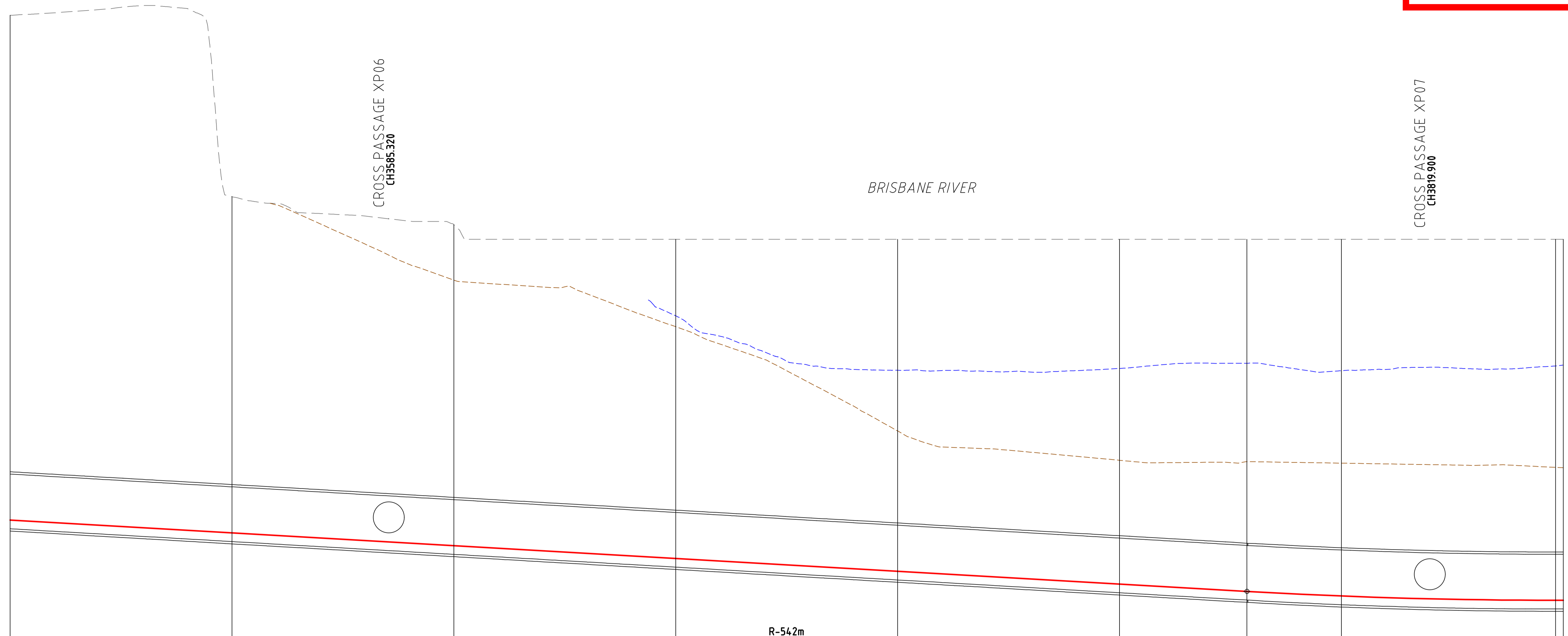
	3150.000	3200.000	3250.000	3300.000	3304.225	3304.377	3350.000	3354.225	3400.000	3450.000	3500.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-21.372	-22.872	-24.372	-25.872	-25.998	-26.003	-27.319	-27.441	-28.762	-30.204	-31.647
EXISTING SURFACE LEVEL	18.736	18.680	18.679	18.419	18.453	18.446	18.311	18.192	19.027	21.406	25.237
CHAINAGE	3150.000	3200.000	3250.000	3300.000	3304.225	3304.377	3350.000	3354.225	3400.000	3450.000	3500.000
BATHYMETRY LEVEL											
ROCK LAYER LEVEL	18.736	18.680	18.679	18.419	18.453	18.446	18.311	18.192	19.027	21.406	25.237

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND	
	EXISTING SURFACE LEVEL
	PROPOSED LOW RAIL LEVEL
	BRISBANE RIVER BATHYMETRY
	ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-107

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)		RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 8									
		Datum BCSG02		NOT TO SCALE		Reference Points		Drawn		ENGINEERING CERTIFICATION (RPEQ)				Job No.			
Auxiliary Drg Nos		Horiz. Grid				Preceding RP		Designed		ENG. AREA		NAME		SIGNATURE		Contract No.	
		Height Origin				Dist. to start of job (km)				NO.		DATE				Drawing No.	
Survey Books		Survey Books		Dimensions shown in metres except where shown otherwise		From start to end of job										Series Number	
A RIPC4 ISSUE		24.04.19				From end to Following RP										of	
Revisions/Descriptions		Certification		Date		Following RP										MRR_Detail (02/14)	
CAD FILES CRR-0003-LS-GA-107.dwg				Microfiled		Through Chainage from											
						Last Modified :- May 01, 2019 - 5:12PM											



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -55.0

	3500.000	3550.000	3600.000	3650.000	3700.000	3750.000	3778.692	3800.000	3848.280	3850.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-31.647	-33.089	-34.532	-35.974	-37.417	-38.859	-39.687	-40.208	-40.691	-40.690
EXISTING SURFACE LEVEL	25.237	4.805	1.639	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHAINAGE	3500.000	3550.000	3600.000	3650.000	3700.000	3750.000	3778.692	3800.000	3848.280	3850.000
BATHYMETRY LEVEL				-8.625	-14.761	-14.562	-13.969	-14.815	-14.280	-14.180
ROCK LAYER LEVEL	25.237	4.805	1.639	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-108

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)		RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 9							
		Datum BCSG02		NOT TO SCALE		Reference Points		ENGINEERING CERTIFICATION (RPEQ)				Job No.			
Auxiliary Drg Nos		Horiz. Grid				Preceding RP		ENG. AREA		NAME		SIGNATURE		Contract No.	
		Height Origin				Dist. to start of job (km)		NO.		DATE		Drawing No.		A	
A RIPC4 ISSUE		24.04.19				From start to end of job		DESIGNED						Series Number	
Revisions/Descriptions		Certification		Date		Following RP								of	
CAD FILES CRR-0003-LS-GA-108.dwg				Microfiled		Through Chainage from								MRR_Detail (02/14)	
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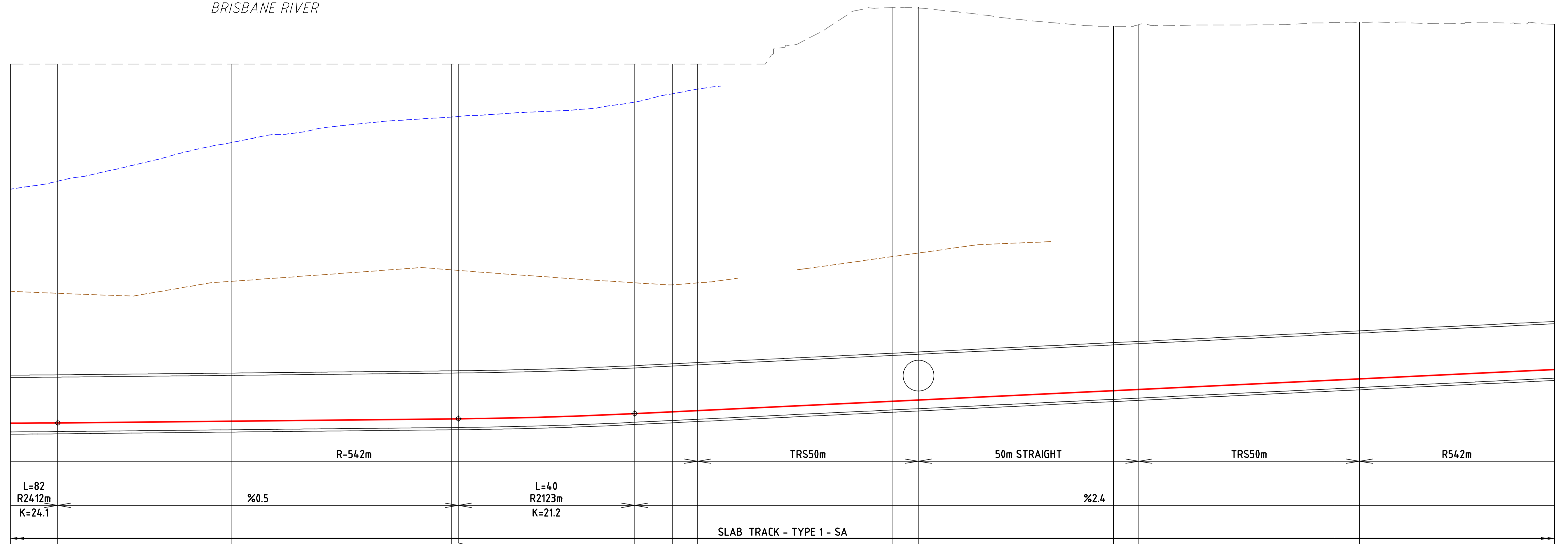
BRISBANE RIVER

CROSS PASSAGE XP08
CH4055.830

HORIZONTAL DATA

VERTICAL DATA

DATUM RL -55.0



	3850.000	3860.692	3900.000	3950.000	3951.496	3991.496	4000.000	4005.781	4050.000	4055.781	4100.000	4105.781	4150.000	4155.781	4200.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-40.659	-40.659	-40.456	-40.199	-40.192	-39.609	-39.405	-39.266	-38.206	-38.067	-37.006	-36.868	-35.807	-35.668	-34.608
EXISTING SURFACE LEVEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.384	6.348	4.264	4.454	4.692	4.719	4.495
CHAINAGE	3850.000	3860.692	3900.000	3950.000	3951.496	3991.496	4000.000	4005.781	4050.000	4055.781	4100.000	4105.781	4150.000	4155.781	4200.000
BATHYMETRY LEVEL	-14.180	-13.272	-8.910	-6.006	-5.944	-4.315	-3.378	-2.842							
ROCK LAYER LEVEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.384	6.348	4.264	4.454	4.692	4.719	4.495

LONGITUDINAL SECTION MC01 (DOWN TRACK)

SCALE 1:500H
1:250V

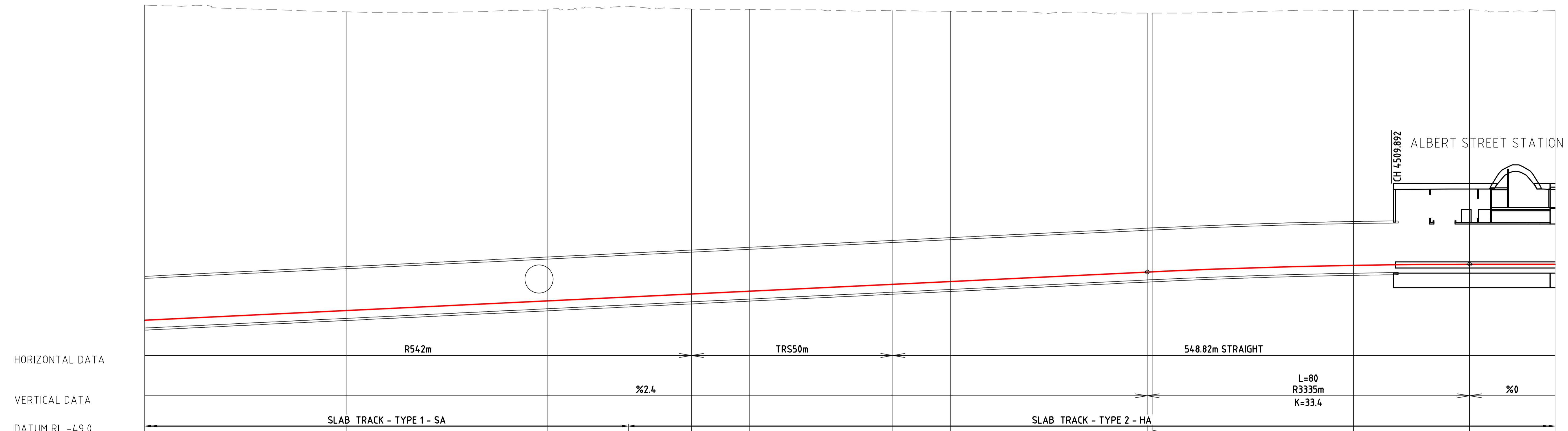
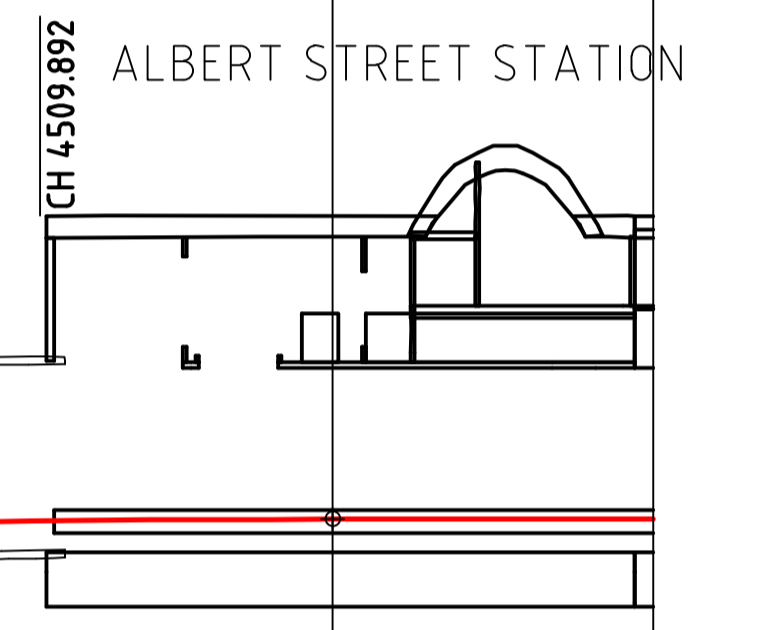
LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-109

				Associated Job Nos	Survey Data	Scales	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)					RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 10						
				Auxiliary Drg Nos	Datum		BCSG02	Reference Points Preceding RP Dist. to start of job (km) From start to end of job From end to Following RP Following RP					ENGINEERING CERTIFICATION (RPEQ)					
					Horiz. Grid								Drawn ENG. AREA NAME SIGNATURE NO. DATE					Contract No.
A RIPC4 ISSUE 24.04.19					Height Origin			Designed					Drawing No.					
Revisions/Descriptions Certification Date Microfiled					Survey Books		Dimensions shown in metres except where shown otherwise					Series Number	A					
CAD FILES CRR-0003-LS-GA-109.dwg				Last Modified :- May 01, 2019 - 5:11PM			Through Chainage from					MRR_Detail (02/14)						

CROSS PASSAGE XP09
CH 4297.820



	4200.000	4250.000	4300.000	4335.662	4350.000	4385.662	4400.000	4448.804	4450.000	4500.000	4528.804	4550.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-34.608	-33.408	-32.209	-31.353	-31.009	-30.154	-29.810	-28.639	-28.611	-27.804	-27.680	-27.680
EXISTING SURFACE LEVEL	4.495	3.662	3.913	4.005	3.966	3.805	3.715	3.512	3.512	3.846	3.923	3.809
CHAINAGE	4200.000	4250.000	4300.000	4335.662	4350.000	4385.662	4400.000	4448.804	4450.000	4500.000	4528.804	4550.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	4.495	3.662	3.913	4.005	3.966	3.805	3.715	3.512	3.512	3.846	3.923	3.809

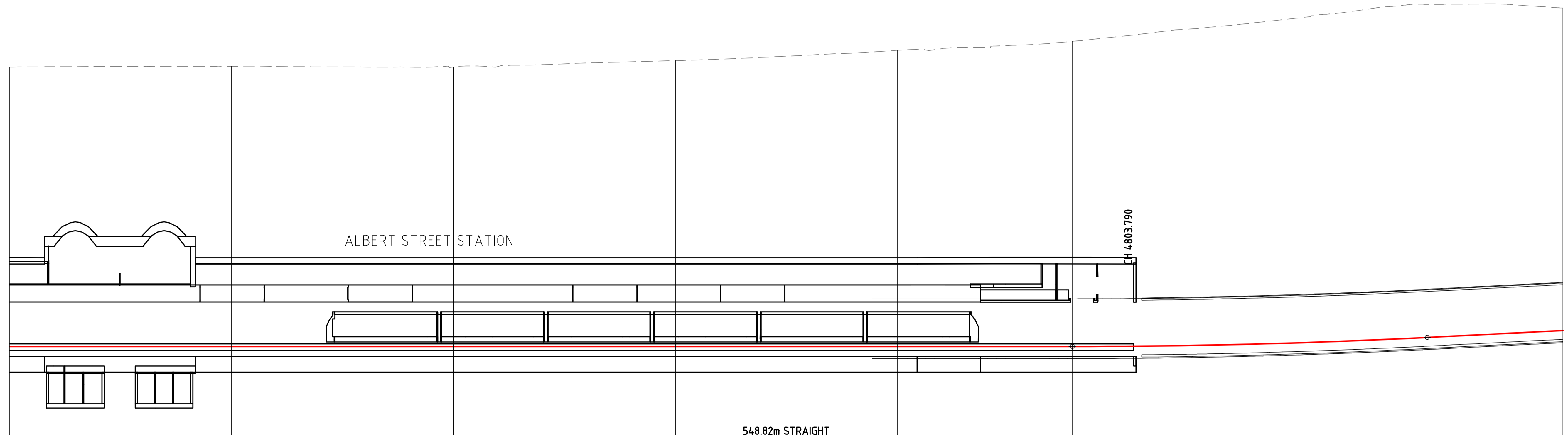
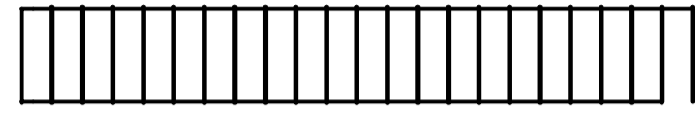
LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-110

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 11							
		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)				Job No.			
Auxiliary Drg Nos		Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		Contract No.	
		Height Origin				Dist. to start of job (km)			NO.		DATE		Drawing No.			
		Survey Books		Dimensions shown in metres except where shown otherwise		From start to end of job			DESIGNED				Series Number			
A RIPC4 ISSUE		24.04.19				From end to Following RP							of			
Revisions/Descriptions		Certification		Date		Following RP							MRR_Detail (02/14)			
CAD FILES CRR-0003-LS-GA-110.dwg				Microfiled		Through Chainage from										
						Last Modified :- May 01, 2019 - 5:11PM										



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -48.0

	4550.000	4600.000	4650.000	4700.000	4750.000	4789.404	4800.000	4850.000	4869.404	4900.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-27.680	-27.680	-27.680	-27.680	-27.680	-27.680	-27.662	-27.099	-26.667	-25.892
EXISTING SURFACE LEVEL	3.809	3.902	3.824	4.546	5.704	6.709	7.258	9.929	10.885	10.475
CHAINAGE	4550.000	4600.000	4650.000	4700.000	4750.000	4789.404	4800.000	4850.000	4869.404	4900.000
BATHYMETRY LEVEL										
ROCK LAYER LEVEL	3.809	3.902	3.824	4.546	5.704	6.709	7.258	9.929	10.885	10.475

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

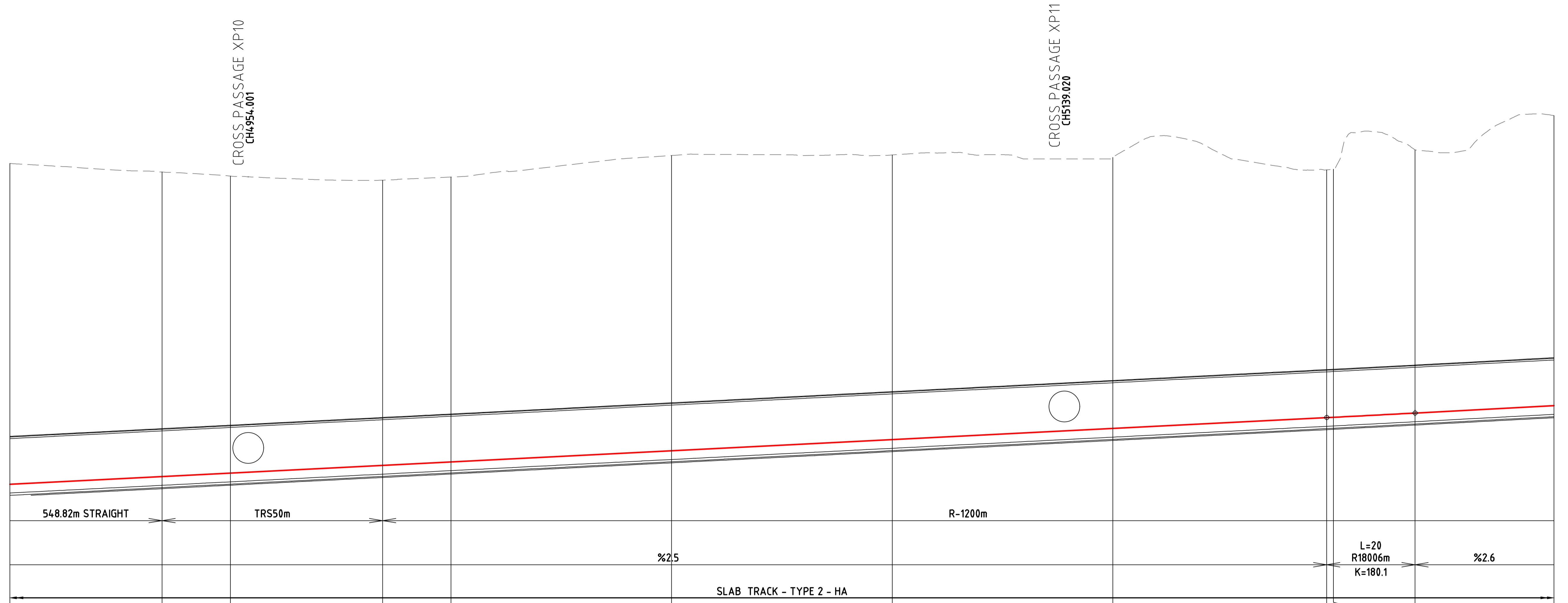
LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-111

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 12					Job No.		
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Contract No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
				Height Origin				From start to end of job			DESIGNED						DATE	
A RIPC4 ISSUE				24.04.19				From end to Following RP									Drawing No.	
Revisions/Descriptions				Certification		Date		Following RP									Series Number	
CAD FILES CRR-0003-LS-GA-111.dwg						Microfiled		Through Chainage from									of	
						Last Modified :- May 01, 2019 - 5:10PM											MRR_Detail (02/14)	





HORIZONTAL DATA

VERTICAL DATA

DATUM RL -4.0.0

	4900.000	4934.483	4950.000	4984.483	5000.000	5050.000	5100.000	5150.000	5198.506	5200.000	5218.506	5250.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-25.892	-25.018	-24.625	-23.751	-23.358	-22.092	-20.825	-19.558	-18.330	-18.292	-17.812	-16.979
EXISTING SURFACE LEVEL	10.475	9.499	9.045	8.581	8.939	11.376	11.443	11.170	9.749	9.837	12.014	15.900
CHAINAGE	4900.000	4934.483	4950.000	4984.483	5000.000	5050.000	5100.000	5150.000	5198.506	5200.000	5218.506	5250.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	10.475	9.499	9.045	8.581	8.939	11.376	11.443	11.170	9.749	9.837	12.014	15.900

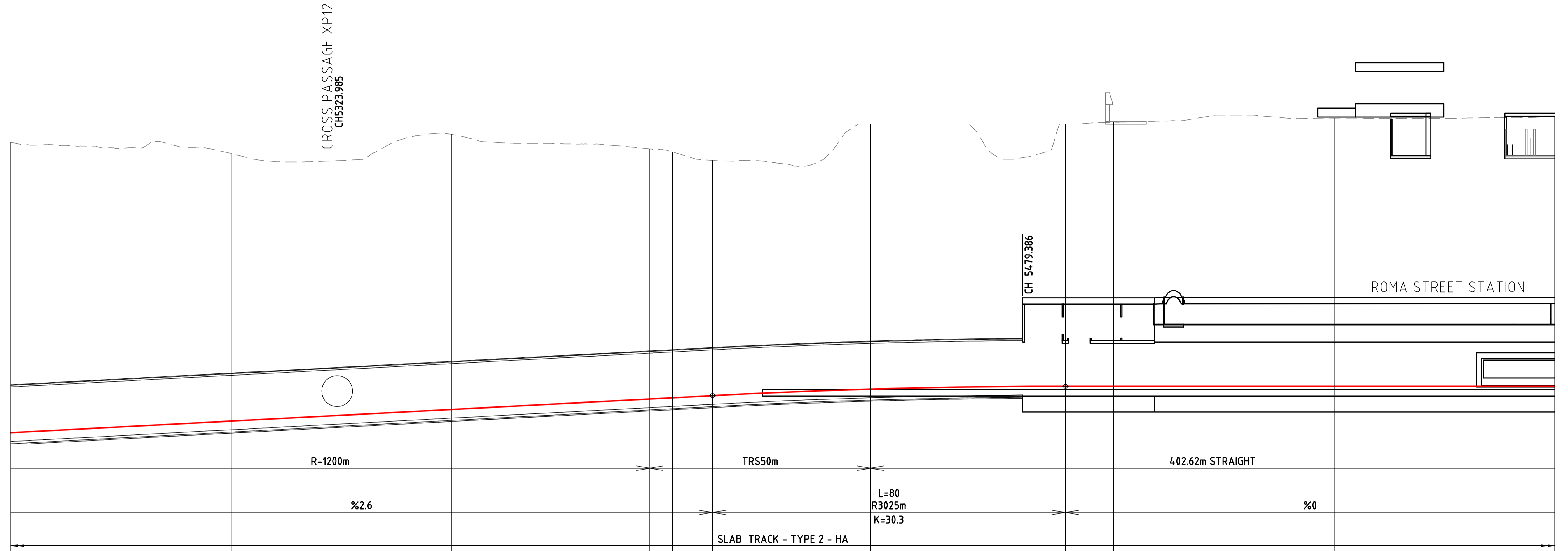
LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-112

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 13				Job No.			
		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)				Contract No.			
Auxiliary Drg Nos		Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
		Height Origin				Dist. to start of job (km)			DATE						A	
		Survey Books		Dimensions shown in metres except where shown otherwise		From start to end of job			Designed						Series Number	
A RIPC4 ISSUE		24.04.19				From end to Following RP									of	
Revisions/Descriptions		Certification		Date		Following RP									MRR_Detail (02/14)	
CAD FILES CRR-0003-LS-GA-112.dwg				Microfiled		Through Chainage from										
						Last Modified :- May 01, 2019 - 5:10PM										



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -31.0

	5250.000	5300.000	5350.000	5394.912	5400.000	5409.101	5444.912	5450.000	5489.101	5500.000	5550.000	5600.000
RAIL ALIGNMENT DOWN TRACK LEVEL	-16.979	-15.657	-14.335	-13.147	-13.012	-12.772	-12.037	-11.967	-11.714	-11.714	-11.714	-11.714
EXISTING SURFACE LEVEL	15.900	14.642	16.801	15.168	14.823	13.852	18.000	18.000	18.000	18.182	18.657	18.842
CHAINAGE	5250.000	5300.000	5350.000	5394.912	5400.000	5409.101	5444.912	5450.000	5489.101	5500.000	5550.000	5600.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	15.900	14.642	16.801	15.168	14.823	13.852	18.000	18.000	18.000	18.182	18.657	18.842

LONGITUDINAL SECTION MC01 (DOWN TRACK)
SCALE 1:500H
1:250V

LEGEND

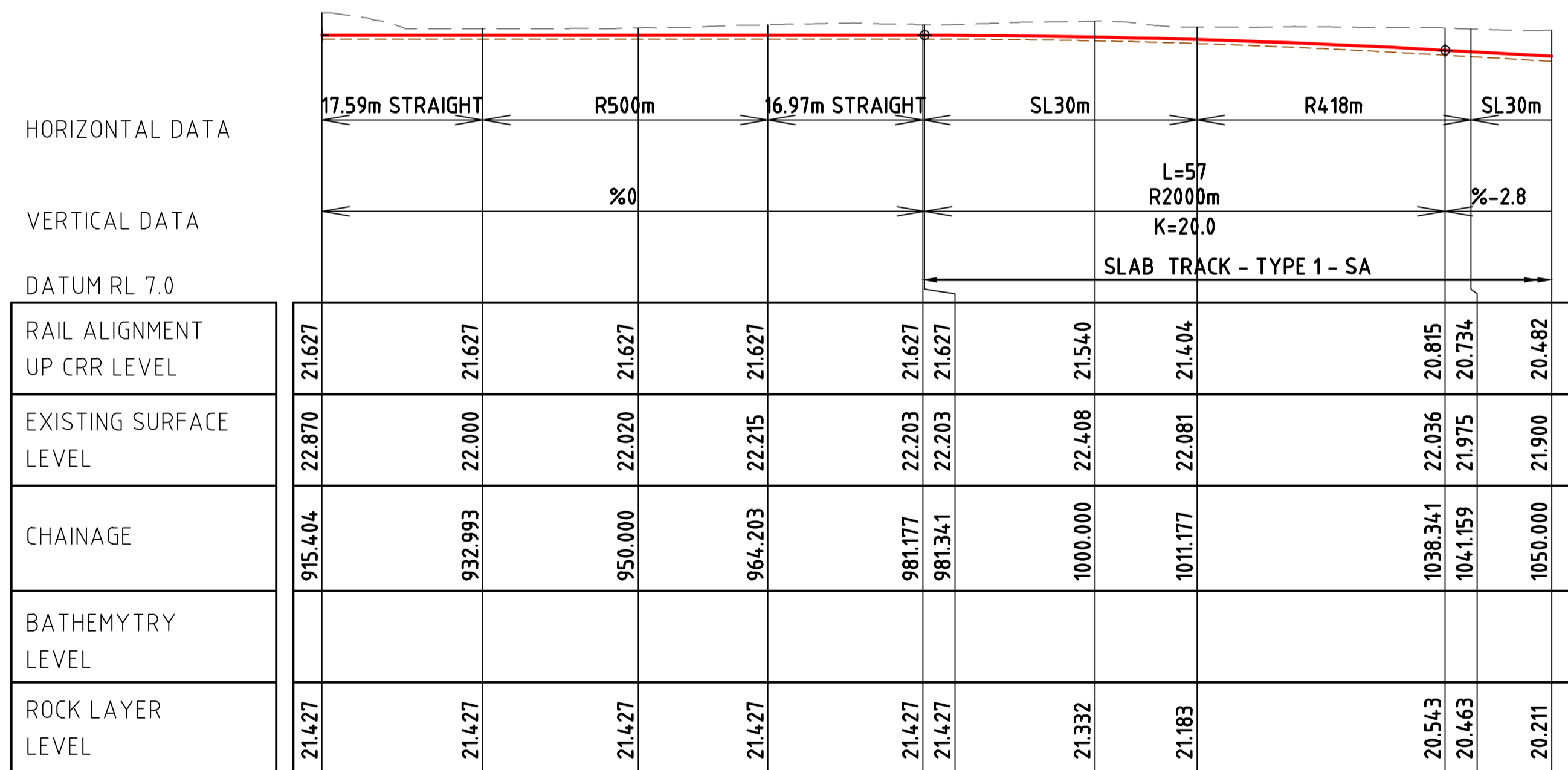
- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- BRISBANE RIVER BATHYMETRY
- ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-113

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION DOWN CRR TRACK SHEET 14					Job No.		
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Contract No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
				Height Origin				From start to end of job			DESIGNED						DATE	
A RIPC4 ISSUE				24.04.19				From end to Following RP									A	
Revisions/Descriptions				Certification		Date		Following RP									Series Number	
CAD FILES CRR-0003-LS-GA-113.dwg						Microfiled		Through Chainage from									of	
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DUTTON PARK STATION
PEDESTRIAN BRIDGE



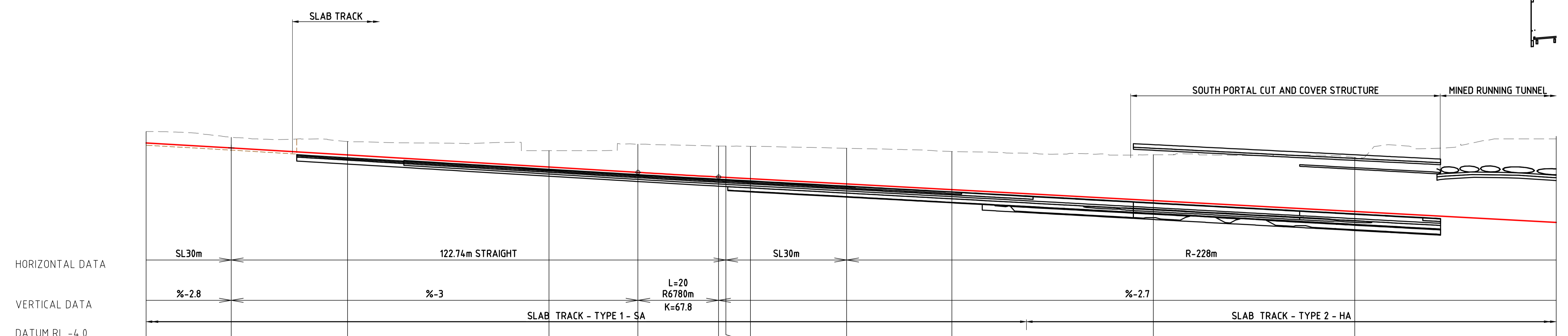
LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND	
	EXISTING SURFACE LEVEL
	PROPOSED LOW RAIL LEVEL
	BRISBANE RIVER BATHYMETRY
	ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-150

				Associated Job Nos	Survey Data	Scales NOT TO SCALE	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 1						
				Auxiliary Drg Nos	Datum BCSG02		Reference Points Preceding RP Dist. to start of job (km) From start to end of job From end to Following RP Following RP	ENGINEERING CERTIFICATION (RPEQ)					Job No.			
					Horiz. Grid			Drawn	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Contract No.		
					Height Origin			Designed						Drawing No.		
A RIPC4 ISSUE 24.04.19					Survey Books						Series Number	A				
Revisions/Descriptions Certification Date Microfiled				Dimensions shown in metres except where shown otherwise								of				
CAD FILES CRR-0003-LS-GA-150.dwg				Last Modified :- May 01, 2019 - 5:17PM			Through Chainage from					MRR_Detail (02/14)				

BOGGO ROAD PEDESTRIAN BRIDGE



HORIZONTAL DATA		SL30m		122.74m STRAIGHT						SL30m		R-228m			
VERTICAL DATA		%-2.8		%-3						L=20 R6780m K=67.8		%-2.7			
DATUM RL -4.0		SLAB TRACK - TYPE 1 - SA												SLAB TRACK - TYPE 2 - HA	
RAIL ALIGNMENT UP CRR LEVEL	20.482	19.879	19.014	17.514	16.852	16.281	16.232	16.067	15.421	14.715	13.362	12.010	10.657		
EXISTING SURFACE LEVEL	21.900	21.193	20.676	19.537	20.351	20.116	20.103	20.070	19.830	19.433	19.030	18.720	21.000		
CHAINAGE	1050.000	1071.159	1100.000	1150.000	1172.086	1192.086	1193.896	1200.000	1223.896	1250.000	1300.000	1350.000	1400.000		
BATHYMETRY LEVEL															
ROCK LAYER LEVEL	20.211	19.608	20.676	19.537	20.351	20.116	20.103	20.070	19.830	19.433	19.030	18.720	21.319		

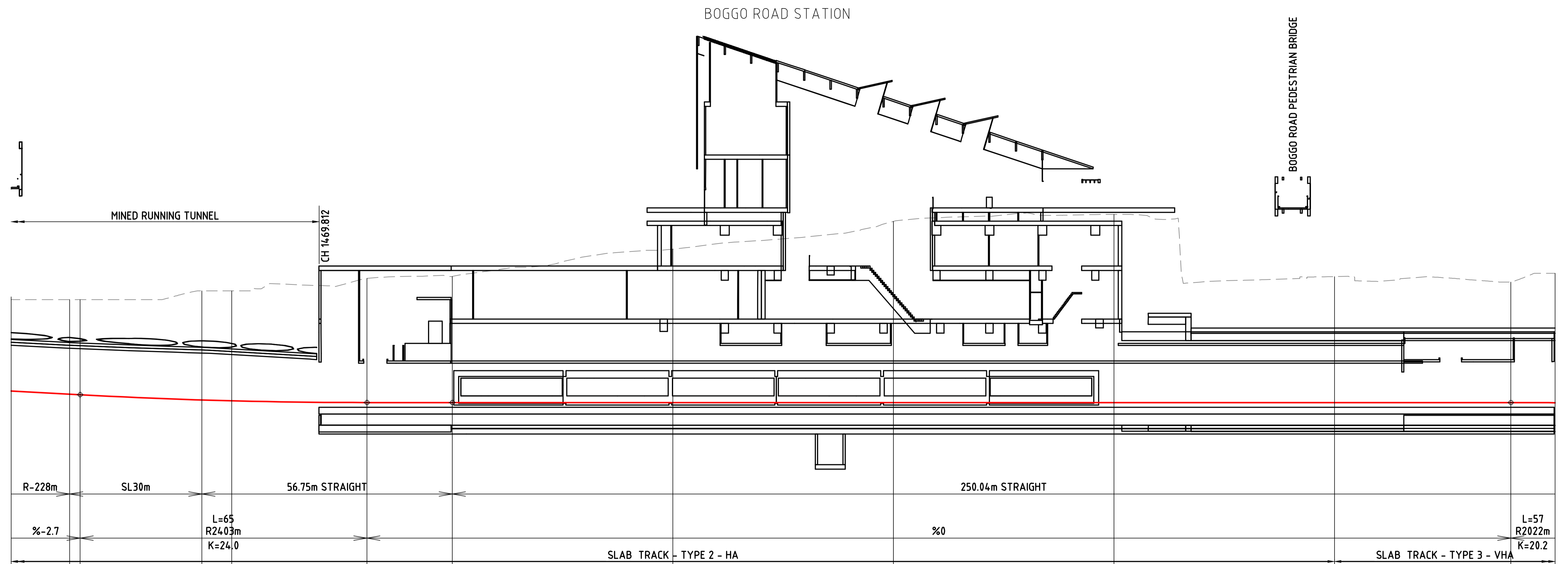
LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-151

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 2					Job No.		
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Contract No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
				Height Origin				From start to end of job			DESIGNED						DATE	
A RIPC4 ISSUE				24.04.19				From end to Following RP									A	
Revisions/Descriptions				Certification		Date		Following RP									Series Number	
CAD FILES CRR-0003-LS-GA-151.dwg								Through Chainage from									MRR_Detail (02/14)	
						Last Modified :- May 01, 2019 - 5:17PM												



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -11.0

	1400.000	1413.254	1415.645	1443.254	1450.000	1480.645	1500.000	1550.000	1600.000	1650.000	1700.000	1739.959	1750.000
RAIL ALIGNMENT UP CRR LEVEL	10.657	10.299	10.234	9.646	9.550	9.355	9.355	9.355	9.355	9.355	9.355	9.355	9.330
EXISTING SURFACE LEVEL	21.000	21.000	21.000	22.000	22.000	23.418	23.624	26.731	29.873	30.656	23.621	23.000	24.000
CHAINAGE	1400.000	1413.254	1415.645	1443.254	1450.000	1480.645	1500.000	1550.000	1600.000	1650.000	1700.000	1739.959	1750.000
BATHYMETRY LEVEL													
ROCK LAYER LEVEL	21.319	21.000	21.000	22.000	22.000	23.418	23.624	26.731	29.873	30.656	23.621	23.000	24.000

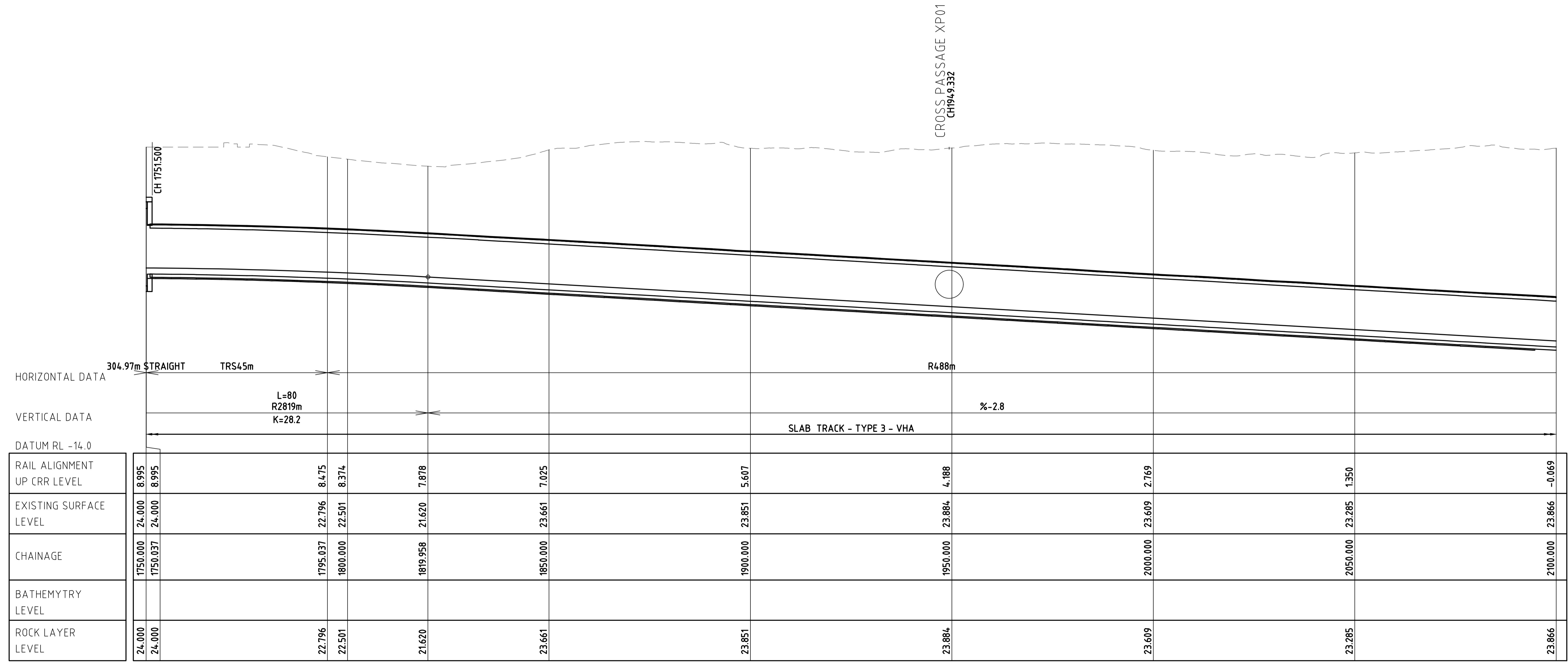
LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-152

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 3							
		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Job No.		
Auxiliary Drg Nos		Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		Contract No.	
		Height Origin				Dist. to start of job (km)			NO.		DATE		Drawing No.			
A RIPC4 ISSUE		Survey Books		Dimensions shown in metres except where shown otherwise		From start to end of job			DESIGNED				Series Number		of	
Revisions/Descriptions		Certification		Date		From end to Following RP							MRR_Detail (02/14)			
CAD FILES CRR-0003-LS-GA-152.dwg				Microfiled		Through Chainage from										
						Last Modified :- May 01, 2019 - 5:17PM										



RAIL ALIGNMENT UP CRR LEVEL	8.995	8.995	8.475	8.374	7.878	7.025	5.607	4.188	2.769	1.350	-0.069
EXISTING SURFACE LEVEL	24.000	24.000	22.796	22.501	21.620	23.661	23.851	23.884	23.609	23.285	23.866
CHAINAGE	1750.000	1750.037	1795.037	1800.000	1819.958	1850.000	1900.000	1950.000	2000.000	2050.000	2100.000
BATHYMETRY LEVEL											
ROCK LAYER LEVEL	24.000	24.000	22.796	22.501	21.620	23.661	23.851	23.884	23.609	23.285	23.866

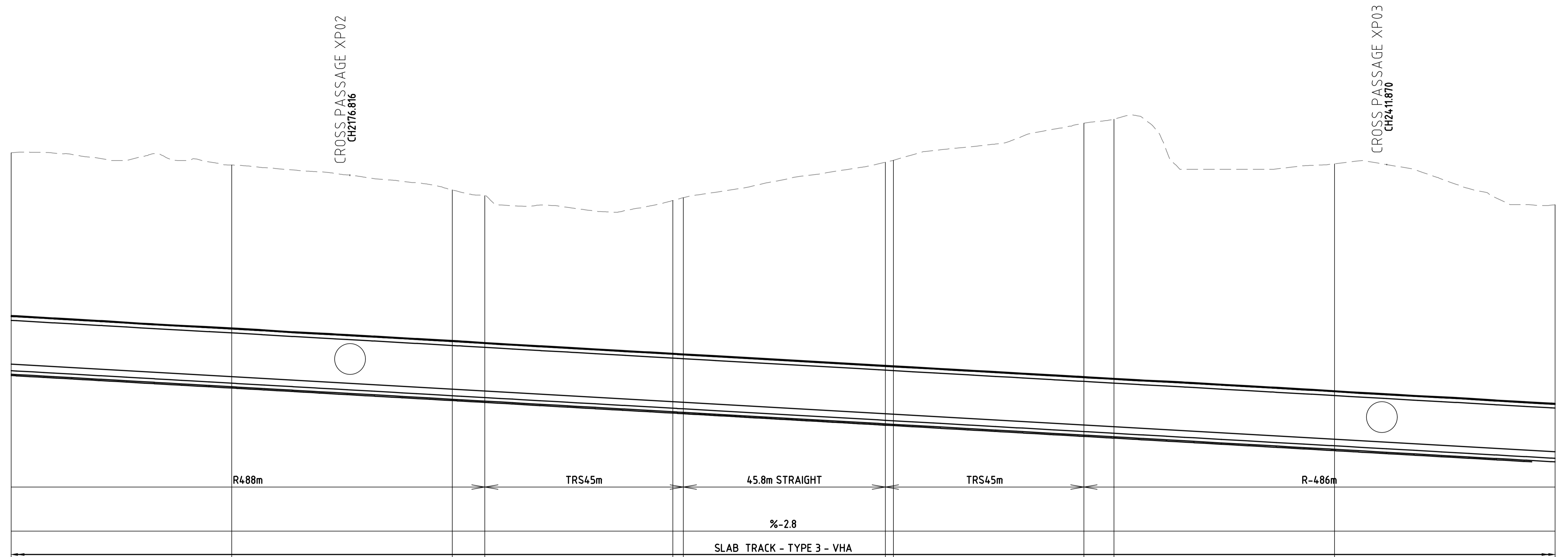
LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-153

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 4						
Auxiliary Drg Nos		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Job No.	
		Horiz. Grid				Preceding RP			ENG. AREA					Contract No.	
		Height Origin				Dist. to start of job (km)			NAME					Drawing No.	
		Survey Books		Dimensions shown in metres except where shown otherwise		From start to end of job			SIGNATURE					Series Number	
						From end to Following RP			NO.					of	
A RIPC4 ISSUE		24.04.19				Following RP			DATE					A	
Revisions/Descriptions		Certification		Date		Through Chainage from								MRR_Detail (02/14)	
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HORIZONTAL DATA

VERTICAL DATA

DATUM RL -24.0

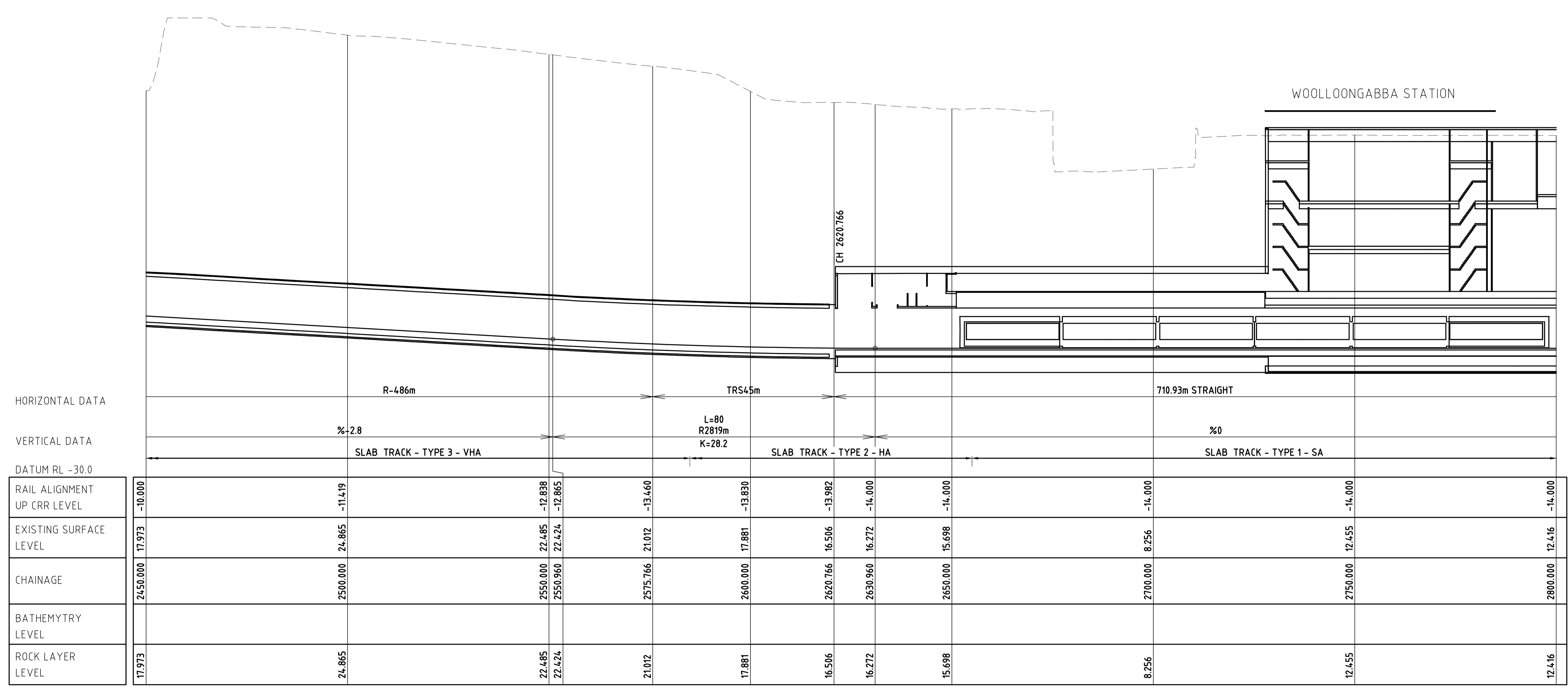
RAIL ALIGNMENT UP CRR LEVEL	2100.000	2150.000	2200.000	2207.393	2250.000	2252.393	2298.194	2300.000	2343.194	2350.000	2400.000	2450.000
EXISTING SURFACE LEVEL	23.866	22.480	19.666	19.022	18.462	18.782	22.808	23.017	27.222	27.681	22.623	17.973
CHAINAGE	2100.000	2150.000	2200.000	2207.393	2250.000	2252.393	2298.194	2300.000	2343.194	2350.000	2400.000	2450.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	23.866	22.480	19.666	19.022	18.462	18.782	22.808	23.017	27.222	27.681	22.623	17.973

LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND	
	EXISTING SURFACE LEVEL
	PROPOSED LOW RAIL LEVEL
	BRISBANE RIVER BATHYMETRY
	ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-154

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 5						
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Job No.	
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA					Contract No.	
				Height Origin				Dist. to start of job (km)			NAME					Drawing No.	
				Survey Books		Dimensions shown in metres except where shown otherwise		From start to end of job			SIGNATURE					Series Number	
A RIPC4 ISSUE				24.04.19				From end to Following RP			NO.					of	
Revisions/Descriptions				Certification		Date		Following RP			DATE					MRR_Detail (02/14)	
CAD FILES CRR-0003-LS-GA-154.dwg								Through Chainage from									
								Last Modified :- May 01, 2019 - 5:20PM									



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -30.0

	2450.000	2500.000	2550.000	2550.960	2575.766	2600.000	2620.766	2630.960	2650.000	2700.000	2750.000	2800.000
RAIL ALIGNMENT UP CRR LEVEL	-10.000	-11.419	-12.838	-12.865	-13.460	-13.830	-13.992	-14.000	-14.000	-14.000	-14.000	-14.000
EXISTING SURFACE LEVEL	17.973	24.865	22.485	22.424	21.012	17.881	16.506	16.272	15.698	8.256	12.455	12.416
CHAINAGE	2450.000	2500.000	2550.000	2550.960	2575.766	2600.000	2620.766	2630.960	2650.000	2700.000	2750.000	2800.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	17.973	24.865	22.485	22.424	21.012	17.881	16.506	16.272	15.698	8.256	12.455	12.416

LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

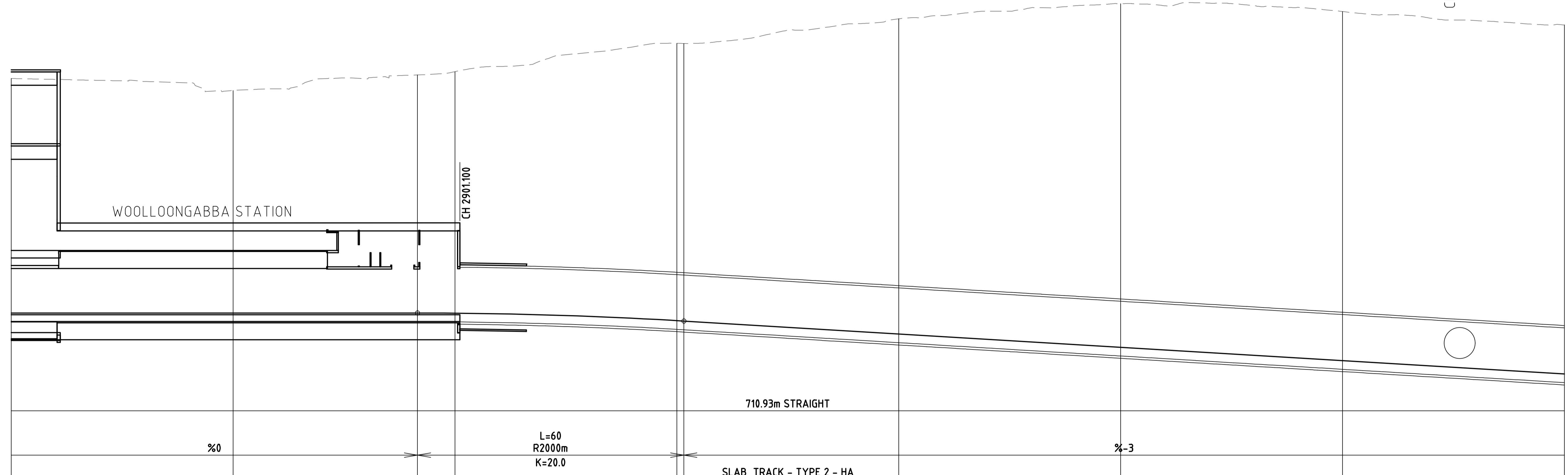
LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-155

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 6					Job No.		
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Contract No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
				Height Origin				From start to end of job			DESIGNED				DATE		Drawing No.	
A RIPC4 ISSUE				24.04.19				From end to Following RP									Series Number	
Revisions/Descriptions				Certification		Date		Following RP									of	
CAD FILES CRR-0003-LS-GA-155.dwg						Microfiled		Through Chainage from									MRR_Detail (02/14)	
						Last Modified :- May 01, 2019 - 5:21PM												

CROSS PASSAGE XP04
CH3126.380



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -35.0

RAIL ALIGNMENT UP CRR LEVEL	-14.000	-14.000	-14.000	-14.018	-14.854	-14.900	-16.353	-17.853	-19.353	-20.853
EXISTING SURFACE LEVEL	12.416	11.067	12.815	13.188	16.384	16.362	19.142	20.838	19.960	18.450
CHAINAGE	2800.000	2850.000	2891.560	2900.000	2950.000	2951.560	3000.000	3050.000	3100.000	3150.000
BATHYMETRY LEVEL										
ROCK LAYER LEVEL	12.416	11.067	12.815	13.188	16.384	16.362	19.142	20.838	19.960	18.450

LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

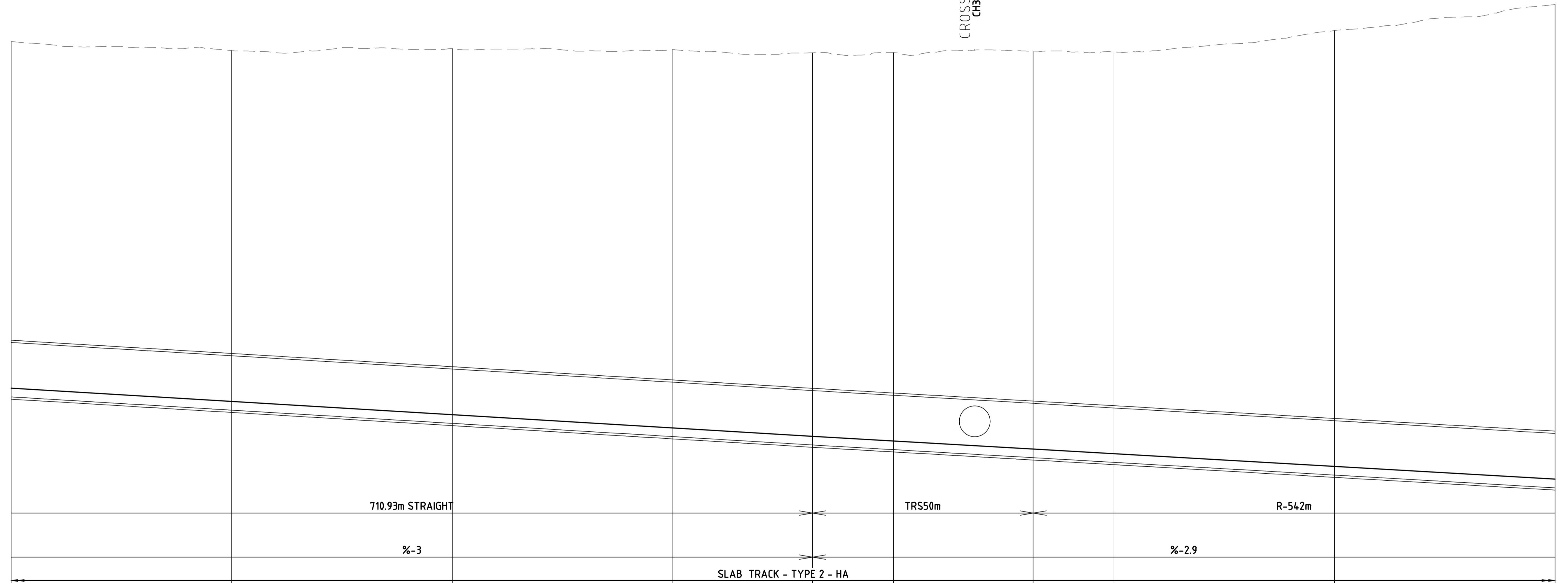
LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-156

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 7							
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Job No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		Contract No.	
				Height Origin				Dist. to start of job (km)			NO.		DATE		Drawing No.			
A RIPC4 ISSUE				24.04.19				From start to end of job			DESIGNED						Series Number	
Revisions/Descriptions				Certification		Date		Following RP									of	
CAD FILES CRR-0003-LS-GA-156.dwg						Microfiled		Through Chainage from									MRR_Detail (02/14)	
						Last Modified :- May 01, 2019 - 5:22PM												

CROSS PASSAGE XP05
CH3368434



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -45.0

RAIL ALIGNMENT UP CRR LEVEL	-20.853	-22.353	-23.853	-25.353	-26.304	-26.832	-27.746	-28.275	-29.717	-31.160
EXISTING SURFACE LEVEL	18.450	17.416	17.662	17.525	17.176	17.188	17.361	17.194	19.693	22.639
CHAINAGE	3150.000	3200.000	3250.000	3300.000	3331.691	3350.000	3381.691	3400.000	3450.000	3500.000
BATHYMETRY LEVEL										
ROCK LAYER LEVEL	18.450	17.416	17.662	17.525	17.176	17.188	17.361	17.194	19.693	22.639

LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-157

				Associated Job Nos	Survey Data	Scales NOT TO SCALE	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)					RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 8						
				Auxiliary Drg Nos	Datum BCSG02		Reference Points					ENGINEERING CERTIFICATION (RPEQ)						
					Horiz. Grid		Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Contract No.	
					Height Origin												Drawing No. A	
A RIPC4 ISSUE 24.04.19					Survey Books	Dimensions shown in metres except where shown otherwise					Designed					Series Number		
Revisions/Descriptions Certification Date Microfiled						Through Chainage from										of		
CAD FILES CRR-0003-LS-GA-157.dwg						Last Modified :- May 01, 2019 - 5:22PM										MRR_Detail (02/14)		



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -55.0

	3500.000	3550.000	3600.000	3650.000	3700.000	3750.000	3797.882	3800.000	3850.000
RAIL ALIGNMENT UP CRR LEVEL	-31.160	-32.602	-34.045	-35.487	-36.930	-38.372	-39.754	-39.814	-40.696
EXISTING SURFACE LEVEL	22.639	26.148	4.495	0.000	0.000	0.000	0.000	0.000	0.000
CHAINAGE	3500.000	3550.000	3600.000	3650.000	3700.000	3750.000	3797.882	3800.000	3850.000
BATHYMETRY LEVEL					-6.781	-13.834	-13.854	-13.811	-15.687
ROCK LAYER LEVEL	22.639	26.148	4.495	0.000	0.000	0.000	0.000	0.000	0.000

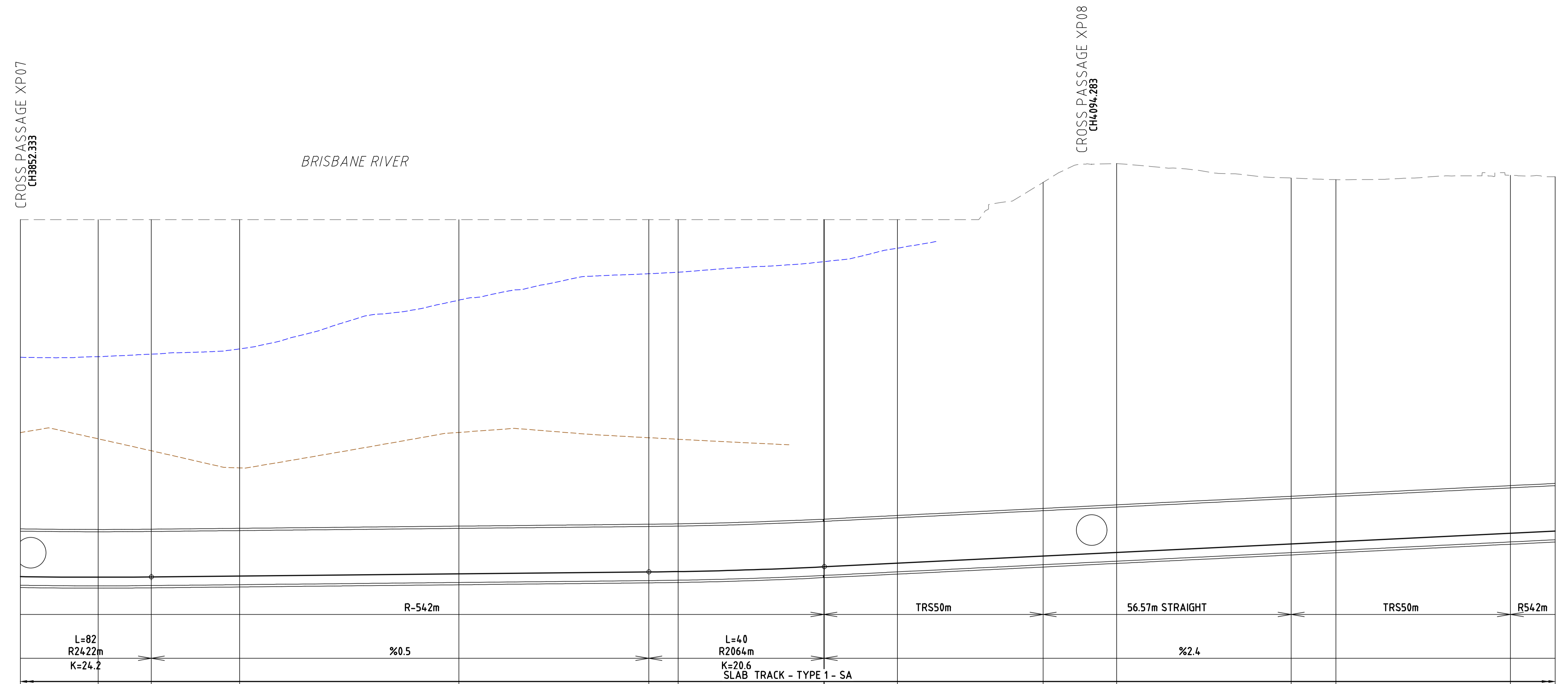
LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- BRISBANE RIVER BATHYMETRY
- ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-158

				Associated Job Nos	Survey Data	Scales NOT TO SCALE	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 9							
				Auxiliary Drg Nos	Datum BCSG02		Reference Points			Drawn	ENGINEERING CERTIFICATION (RPEQ)						Job No.
					Horiz. Grid		Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Contract No.
					Height Origin												Drawing No.
A RIPC4 ISSUE					Survey Books	Dimensions shown in metres except where shown otherwise			Designed							Series Number	A
Revisions/Descriptions				Certification	Date	Microfiled	Through Chainage from									MRR_Detail (02/14)	
CAD FILES CRR-0003-LS-GA-158.dwg							Last Modified :- May 01, 2019 - 5:23PM										



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -55.0

	3850.000	3867.770	3879.882	3900.000	3950.000	3993.324	4000.000	4033.247	4033.324	4050.000	4083.247	4100.000	4139.813	4150.000	4189.813	4200.000
RAIL ALIGNMENT UP CRR LEVEL	-40.696	-40.762	-40.731	-40.631	-40.381	-40.164	-40.120	-39.578	-39.577	-39.170	-38.359	-37.951	-36.980	-36.732	-35.761	-35.512
EXISTING SURFACE LEVEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.239	6.386	4.737	4.556	5.046	4.875
CHAINAGE	3850.000	3867.770	3879.882	3900.000	3950.000	3993.324	4000.000	4033.247	4033.324	4050.000	4083.247	4100.000	4139.813	4150.000	4189.813	4200.000
BATHYMETRY LEVEL	-15.687	-15.626	-15.334	-14.739	-9.185	-6.167	-6.002	-4.791	-4.786	-3.264						
ROCK LAYER LEVEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.239	6.386	4.737	4.556	5.046	4.875

LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-159

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 10					Job No.		
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Contract No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
				Height Origin				From start of job			DESIGNED						DATE	
A RIPC4 ISSUE				24.04.19				From end of job									Drawing No.	
Revisions/Descriptions				Certification		Date		Following RP									Series Number	
CAD FILES CRR-0003-LS-GA-159.dwg						Microfiled		Through Chainage from									of	
						Last Modified :- May 01, 2019 - 5:23PM											MRR_Detail (02/14)	



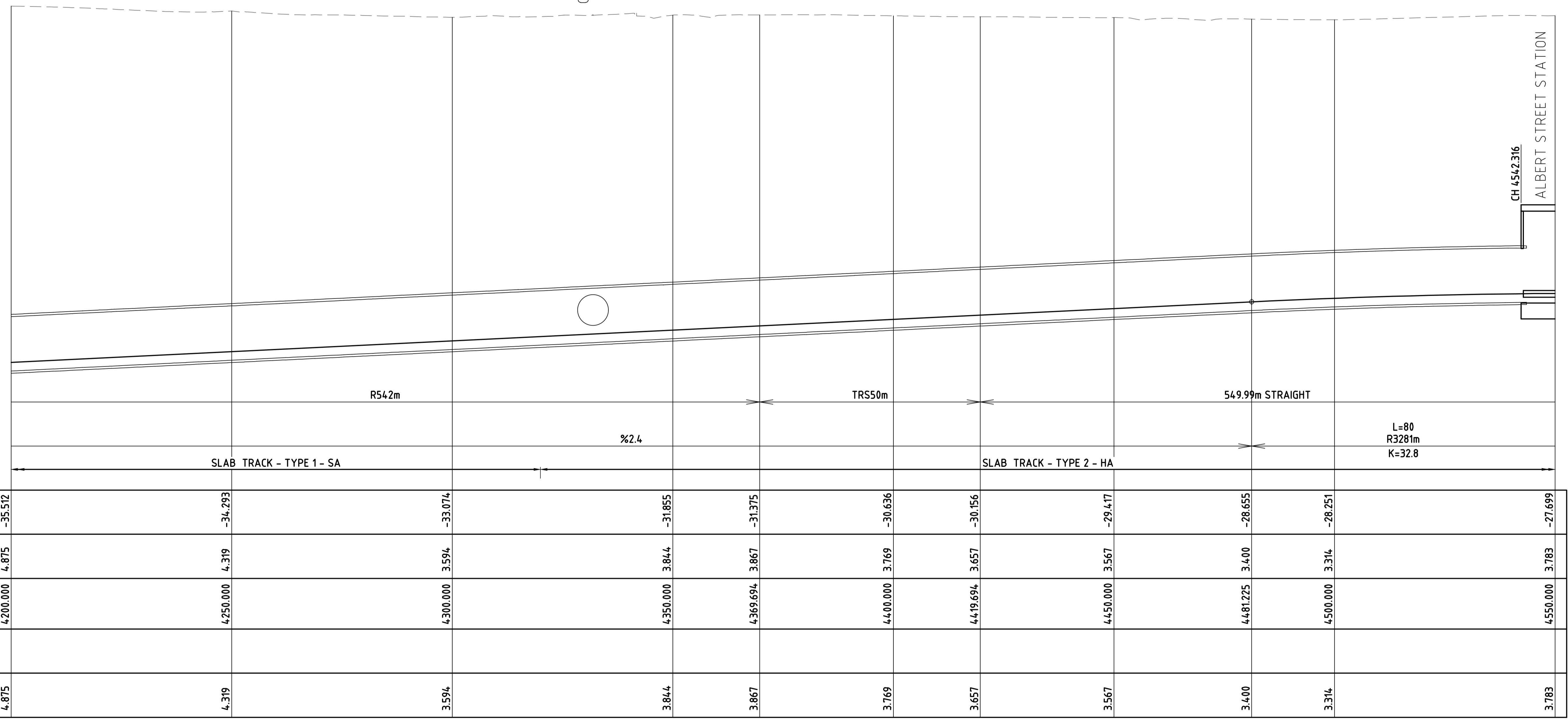
CROSS PASSAGE XP09
CH4331907

CH 4542.316
ALBERT STREET STATION

HORIZONTAL DATA

VERTICAL DATA

DATUM RL -50.0



	4200.000	4250.000	4300.000	4350.000	4369.694	4400.000	4419.694	4450.000	4481.225	4500.000	4550.000
RAIL ALIGNMENT UP CRR LEVEL	-35.512	-34.293	-33.074	-31.855	-31.375	-30.636	-30.156	-29.417	-28.655	-28.251	-27.699
EXISTING SURFACE LEVEL	4.875	4.319	3.594	3.844	3.867	3.769	3.657	3.567	3.400	3.314	3.783
CHAINAGE	4200.000	4250.000	4300.000	4350.000	4369.694	4400.000	4419.694	4450.000	4481.225	4500.000	4550.000
BATHYMETRY LEVEL											
ROCK LAYER LEVEL	4.875	4.319	3.594	3.844	3.867	3.769	3.657	3.567	3.400	3.314	3.783

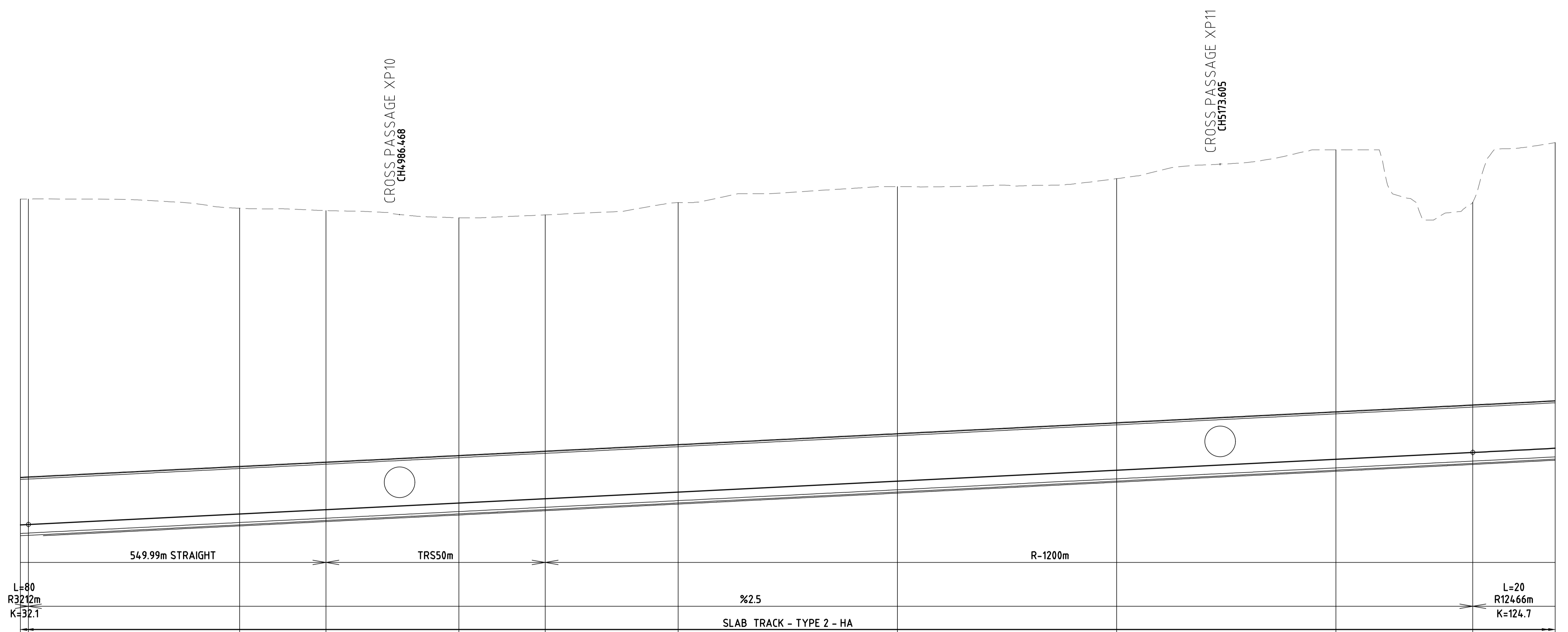
LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-160

				Associated Job Nos	Survey Data	Scales NOT TO SCALE	BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)					RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 11							
				Auxiliary Drg Nos	Datum BCSG02		Dimensions shown in metres except where shown otherwise	Reference Points					ENGINEERING CERTIFICATION (RPEQ)					Job No.	
					Horiz. Grid			Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Contract No.	
					Height Origin													Drawing No.	
A RIPC4 ISSUE					Survey Books												A		
Revisions/Descriptions				Certification	Date	Microfiled	Through Chainage from										Series Number	of	
CAD FILES CRR-0003-LS-GA-160.dwg				Last Modified :- May 01, 2019 - 5:24PM														MRR_Detail (02/14)	



HORIZONTAL DATA

VERTICAL DATA

DATUM RL -41.0

	4900.000	4901.825	4950.000	4969.683	5000.000	5019.683	5050.000	5100.000	5150.000	5200.000	5231.228	5250.000
RAIL ALIGNMENT UP CRR LEVEL	-26.729	-26.684	-25.484	-24.994	-24.239	-23.749	-22.994	-21.748	-20.503	-19.258	-18.480	-17.999
EXISTING SURFACE LEVEL	10.404	10.402	9.352	9.085	8.260	8.594	9.989	11.815	12.715	16.000	10.034	16.830
CHAINAGE	4900.000	4901.825	4950.000	4969.683	5000.000	5019.683	5050.000	5100.000	5150.000	5200.000	5231.228	5250.000
BATHYMETRY LEVEL												
ROCK LAYER LEVEL	10.404	10.402	9.352	9.085	8.260	8.594	9.989	11.815	12.715	16.000	10.034	16.830

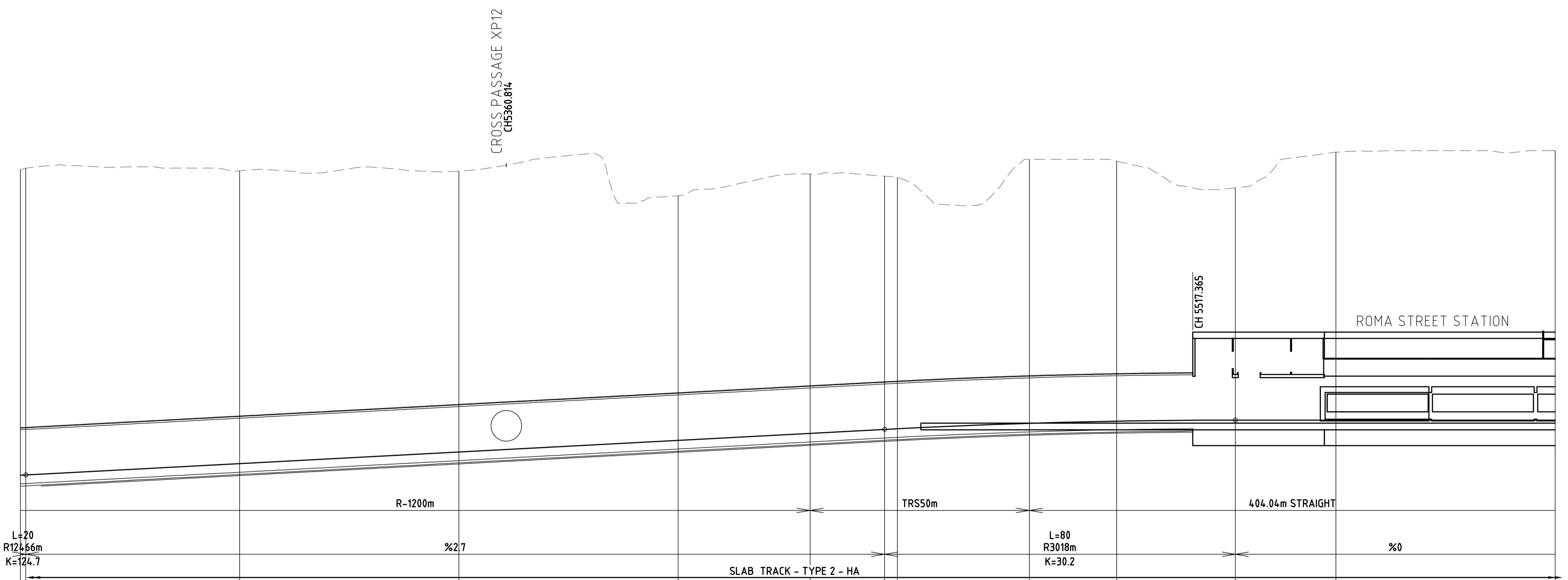
LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-162

Associated Job Nos		Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 13							
Auxiliary Drg Nos		Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)				Job No.			
		Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		Contract No.	
		Height Origin				Dist. to start of job (km)			NO.		DATE		Drawing No.		A	
		Survey Books				From start to end of job			DESIGNED				Series Number		of	
A RIPC4 ISSUE		24.04.19				From end to Following RP							MRR_Detail (02/14)			
Revisions/Descriptions		Certification		Date		Microfiled										
CAD FILES CRR-0003-LS-GA-162.dwg						Last Modified :- May 01, 2019 - 5:24PM										



RAIL ALIGNMENT UP CRR LEVEL	EXISTING SURFACE LEVEL	CHAINAGE	BATHYMETRY LEVEL	ROCK LAYER LEVEL
-17.999	16.830	5250.000		16.830
-17.966	16.973	5251.228		16.973
-16.673	16.688	5300.000		16.688
-15.348	16.654	5350.000		16.654
-14.022	13.854	5400.000		13.854
-13.224	16.323	5430.113		16.323
-12.774	16.080	5447.081		16.080
-12.698	15.956	5450.000		15.956
-12.079	18.000	5480.113		18.000
-11.836	17.797	5500.000		17.797
-11.714	14.755	5527.081		14.755
-11.714	18.823	5550.000		18.823
-11.714	19.000	5600.000		19.000

LONGITUDINAL SECTION MC02 (UP TRACK)
SCALE 1:500H
1:250V

LEGEND

- EXISTING SURFACE LEVEL
- PROPOSED LOW RAIL LEVEL
- - - BRISBANE RIVER BATHYMETRY
- - - ROCK LEVEL

CRRDA Drg. No. CRR-0003-LS-GA-163

Associated Job Nos				Survey Data		Scales		BRISBANE CITY CROSS RIVER RAIL REFERENCE DESIGN (CHANGED PROJECT)			RAIL ALIGNMENT LONG SECTION UP CRR TRACK SHEET 14					Job No.		
				Datum BCSG02		NOT TO SCALE		Reference Points			ENGINEERING CERTIFICATION (RPEQ)					Contract No.		
Auxiliary Drg Nos				Horiz. Grid				Preceding RP			ENG. AREA		NAME		SIGNATURE		NO.	
				Height Origin				From start to end of job			DESIGNED				DATE		of	
A RIPC4 ISSUE				24.04.19				From end to Following RP									A	
Revisions/Descriptions				Certification		Date		Following RP									Series Number	
CAD FILES CRR-0003-LS-GA-163.dwg						Microfiled		Through Chainage from									MRR_Detail (02/14)	
						Last Modified :- May 01, 2019 - 5:16PM												