

Curve Details: Spencer Junction to Tarcoola



Jul-15

Note

[1] Rated speed at ARTC Normal Limits (80mm cant deficiency and 55mm/sec rate of change of cant and cant deficiency with cog 2400mm above rail level, and twist fault of 5mm in 14m transition)

[2] Cant deficiencies in mm shown where they are 75mm or more for existing curve speeds

Note in comments

TRC Curve data from track recordings

Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comment
Start	End				Start	End					
95.255										Spencer Jcn t/o	
95.280	95.850	R	800	50	60	60	80		94		
97.870	98.930	L	1200	50	60	60	100		115		
99.260	99.620	R	800	50	60	60	80		94		
99.920	100.300	R	800	50	60	60	80		94		
100.460	101.172	L	600	80	60	60	80		90		
101.710	102.310	R	800	50	60	60	80		94		
102.660	103.280	L	800	50	60	60	80		94		
104.140	104.610	L	800	50	60	60	80		94		
105.170	105.890	L	800	50	60	60	80		94		
106.160	107.160	R	800	50	60	60	80		94		
107.380	107.790	L	800	50	60	60	80		94		
108.030	108.290	R	1200	20	60	60	80		101		
108.770	109.290	R	800	50	60	60	80		94		
109.880	110.160	R	800	50	60	60	80		94		
110.500	111.210	L	800	50	60	60	80		94		
112.980	113.440	R	1200	50	60	60	100		115		
116.110	116.520	R	1200	50	60	60	100		115		
118.070	118.630	R	1200	50	60	60	100		115		
118.665										Tent Hill up t/o	
120.670										Tent Hill dn t/o	
128.834	129.307	L	1200	50	60	60	100		115		
145.056										Hesso up t/o	
145.930	146.530	R	2400	0	60	60	100		125		
147.055										Hesso dn t/o	

Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comment
Start	End				Start	End					
149.550	150.110	L	800	50	60	60	80		94		
152.570	153.450	R	800	50	60	60	80		94		
154.400	154.960	R	1600	30	60	60	100		122		
155.840	156.670	L	800	50	60	60	80		94		
156.790	157.780	R	1000	30	60	60	80		97		
157.980	158.580	L	800	50	60	60	80		94		
161.010	161.580	R	3200	0	60	60	100		130+		
163.550	164.170	R	3200	0	60	60	100		130+		
172.720	173.230	L	1200	50	60	60	100		115		
175.716										Bookaloo dn t/o	
177.697										Bookaloo up t/o	
190.430	190.910	L	1200	50	60	60	100		115		
196.440	196.780	R	3200	0	60	60	100		130+		
199.540	200.120	R	1200	50	60	60	100		115		
200.540	201.470	L	840	40	60	60	80		93		
201.990	202.440	R	800	50	60	60	80		94		
203.280	203.620	L	3200	0	60	60	100		130+		
204.350	204.750	L	800	50	60	60	80		94		
204.970	205.410	R	800	50	60	60	80		94		
205.610	206.080	L	1600	30	60	60	100		122		
206.700	207.300	R	800	50	60	60	80		94		
208.310	208.770	L	1600	30	60	60	100		122		
209.051										McLeay up t/o	
209.090	209.580	R	1600	30	60	60	100		122		
211.119										McLeay dn t/o	
211.690	212.170	L	2000	10	60	60	100		123		
213.400	213.860	R	1600	30	60	60	100		122		
216.680	217.100	R	3200	0	60	60	100		130+		
220.720	221.670	R	800	50	60	60	80		94		
222.190	223.160	L	800	50	60	60	80		94		
223.580	224.180	L	800	50	60	60	80		94		
224.280	224.990	R	800	50	60	60	80		94		
225.470	226.010	L	2400	0	60	60	100		127		
226.880	227.340	R	3200	0	60	60	100		130+		
228.040	228.590	L	2400	0	60	60	100		127		
229.530	229.980	L	800	50	60	60	80		94		
230.600	230.940	L	2000	10	60	60	100		123		

Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comment
Start	End				Start	End					
231.340	231.790	R	1600	30	60	60	100		122		
232.630	233.050	L	1600	30	60	60	100		122		
234.680	235.080	L	2000	10	60	60	100		123		
235.990	236.960	R	800	50	60	60	80		94		
237.080	237.680	L	800	50	60	60	80		94		
237.840	238.180	R	800	50	60	60	80		94		
238.320	238.990	L	800	50	60	60	80		94		
240.170	240.860	R	600	80	60	60	80		90		
240.946										Wirrappa up t/o	
242.928										Wirrappa dn t/o	
242.960	243.860	L	700	60	60	60	80		91		
244.060	244.390	L	800	50	60	60	80		94		
245.730	247.380	R	800	50	60	60	80		94		
247.590	248.090	L	800	50	60	60	80		94		
248.130	248.670	R	800	50	60	60	80		94		
248.730	250.440	L	800	50	60	60	80		94		
250.700	251.670	R	800	50	60	60	80		94		
251.870	252.130	R	800	50	60	60	80		94		
252.450	252.800	L	1200	50	60	60	100		115		
254.180	254.530	R	1200	50	60	60	100		115		
257.100	258.010	L	800	50	60	60	80		94		
258.670	259.660	R	800	50	60	60	80		94		
259.900	260.280	R	800	50	60	60	80		94		
260.970	262.030	L	800	50	60	60	80		94		
263.420	264.020	L	4000	0	60	60	100		130+		
266.420	266.820	R	1600	30	60	60	100		122		
268.470	269.110	R	1200	50	60	60	100		115		
270.400	271.020	L	1200	50	60	60	100		115		
272.615										Pimba up t/o	
274.630										Pimba dn t/o	
275.110	275.710	L	1200	50	60	60	100		115		
277.100	277.520	L	1200	50	60	60	100		115		
281.790	282.210	R	4000	0	60	60	100		130+		
284.643	285.720	R	1207	50	60	60	100		115		
288.326	289.380	L	1207	50	60	60	100		115		
289.684	290.340	L	604	80	60	60	80		90		
290.365	291.530	R	604	50	60	60	80		80		Design cant alteration NAN2288

Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comment
Start	End				Start	End					
291.940	292.200	L	1207	50	60	60	90		115		
292.590	293.010	L	1000	50	60	60	90		105		
293.820	294.120	R	1200	50	60	60	90		115		
295.670	296.030	L	1000	50	60	60	90		105		
297.240	297.560	L	1600	30	60	60	100		122		
298.810	299.530	L	800	50	60	60	80		94		
300.600	301.100	R	800	50	60	60	80		94		
301.830	302.190	R	1600	30	60	60	80		122		
302.650	302.950	L	800	50	60	60	80		94		
305.000	305.550	L	800	50	60	60	80		94		
307.040	307.320	R	800	85	60	60	80		94		
307.340	308.080	R	800	50	60	60	80		94		
308.120	308.400	L	800	50	60	60	80		94		
309.795										Burando up t/o	
309.850	310.250	R	1600	30	60	60	80		122		
311.220	311.760	L	800	50	60	60	80		94		
311.987										Burando dn t/o	
312.970	313.450	L	800	50	60	60	80		94		
313.490	314.020	R	800	50	60	60	80		94		
314.340	314.680	L	1200	50	60	60	100		115		
314.820	316.090	R	2100	10	60	60	100		127		
316.250	316.550	R	2000	10	60	60	100		123		
317.880	318.220	R	1200	50	60	60	100		115		
318.640	319.010	R	1200	50	60	60	100		115		
320.030	320.450	L	1200	50	60	60	100		115		
321.420	321.860	R	1600	30	60	60	100		122		
325.660	326.110	L	1600	30	60	60	100		122		
331.960	332.440	L	800	50	60	60	80		94		
334.740	335.120	R	800	50	60	60	80		94		
337.830	338.080	R	2000	10	60	60	100		124		
341.018										Wirraminna up t/o	
343.001										Wirraminna dn t/o	
360.550	361.090	L	1600	30	60	60	100		122		
361.130	361.670	R	1200	50	60	60	100		115		
364.990	365.980	R	1200	50	60	60	100		115		
367.850	368.330	L	800	50	60	60	80		94		
369.560	370.140	L	1200	50	60	60	100		115		

Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comment
Start	End				Start	End					
372.150	372.540	R	1200	50	60	60	100	115			
372.740	373.220	R	1200	50	60	60	100	115			
374.170	374.650	L	800	50	60	60	80	94			
375.500	375.500								Coondambo CP		
377.610	377.910	L	4000	0	60	60	100	130+			
392.703									Kultanaby up t/o		
394.690									Kultanaby dn t/o		
397.440	397.800	R	2000	10	60	60	100	124			
418.340	418.640	R	8000	0	60	60	100	130+			
422.890	423.290	L	1600	30	60	60	100	122			
424.870									Kingoonya up t/o		
426.860									Kingoonya dn t/o		
428.880	429.410	L	2000	10	60	60	100	125			
429.930	430.450	R	1600	30	60	60	100	122			
432.600	433.150	L	2000	10	60	60	100	125			
437.450	437.940	R	1600	30	60	60	100	122			
440.330	440.450	L	1200	50	60	60	100	115			
440.490	440.610	R	1200	50	60	60	100	115			
441.010	441.130	R	1200	50	60	60	100	115			
441.170	441.300	L	1200	50	60	60	100	115			
446.220	446.710	L	4000	0	60	60	100	130+			
455.300	455.800	R	1200	50	60	60	100	115			
456.770	457.550	L	800	50	60	60	80	94			
458.680	459.100	R	800	50	60	60	80	94			
459.240	459.620	L	1000	50	60	60	90	105			
463.220	463.730	R	1000	50	60	60	90	105			
464.370	464.890	R	1000	50	60	60	90	105			
465.600	466.100	L	2000	10	60	60	100	123			
467.725									Ferguson up t/o		
469.690									Ferguson dn t/o		
469.860	470.360	R	4000	0	60	60	100	130+			
474.390	474.890	R	2800	0	60	60	100	130+			
476.620	477.080	L	1000	50	60	60	90	105			
477.550	477.990	R	1000	50	60	60	90	105			
483.000	483.460	L	3200	0	60	60	100	130+			
483.900	484.390	R	1600	30	60	60	100	122			
485.410	485.950	L	2000	10	60	60	100	124			

Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comment
Start	End				Start	End					
492.190	492.670	L	2400	0	60	60	100		127		
497.440	497.920	L	800	50	60	60	80		94		
503.379										Tarcoola loop up end t/o	
505.440										Tarcoola loop dn end t/o	