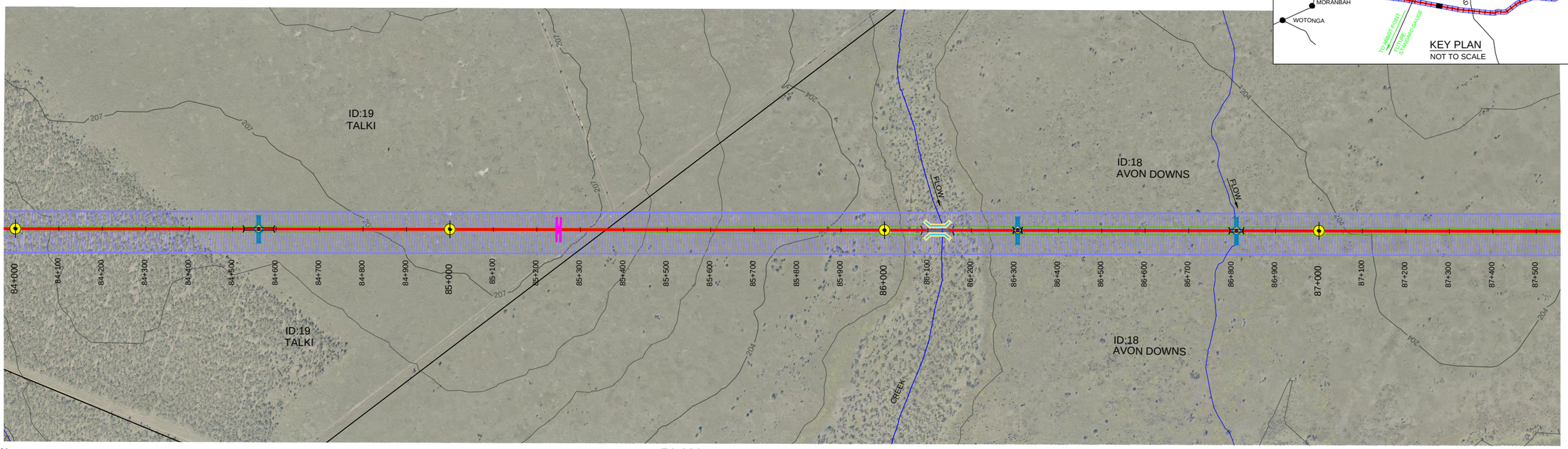
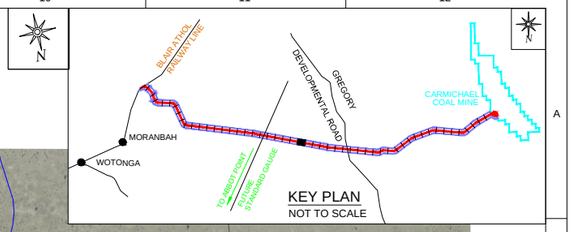
Carmichael Coal Mine and Rail Project
Supplementary Environmental Impact Statement

Volume 4, Appendix C3b – Operational Works Excavation and Filling

Containing

- Part 2 – Continued Supporting drawings





MORANBAH / QRN

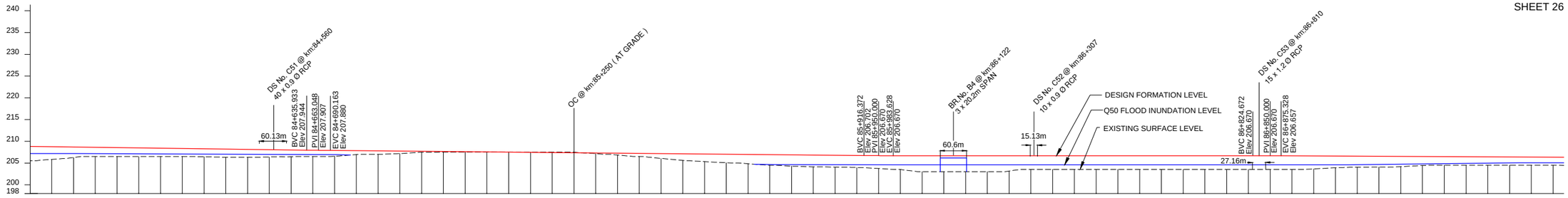
SHEET 24

PLAN

1:5000

TO CARMICHAEL COAL MINE

SHEET 26



VERTICAL ALIGNMENT: 1:-721 | K1270 | 1:-1041 | K700 | LEVEL | K970 | 1:-1915

DEPTH OF CUTTING(-): 0.013, 0.061, 0.109, 0.140

HEIGHT OF BANK(+): 3.327, 2.948, 2.439, 2.119, 2.049, 1.980, 1.910, 1.841, 1.846, 1.891, 1.829, 1.692, 1.560, 1.425, 1.314, 0.886, 0.775, 0.574, 0.221, 0.131, 0.083, 0.035, 0.152, 0.408, 0.698, 1.133, 1.517, 1.745, 1.951, 2.133, 2.410, 2.597, 2.702, 2.727, 2.771, 2.960, 3.170, 3.670, 3.670, 3.670, 3.670, 3.526, 3.170, 3.170, 3.170, 3.170, 3.170, 3.170, 3.170, 3.170, 3.170, 3.170, 3.170, 3.167, 3.144, 2.985, 2.702, 2.566, 2.493, 2.358, 2.077, 1.961, 1.935, 1.909, 1.883, 1.857, 1.831

FORMATION LEVELS: 208.827, 208.757, 208.688, 208.619, 208.549, 208.480, 208.410, 208.341, 208.272, 208.202, 208.133, 208.063, 207.994, 207.925, 207.871, 207.823, 207.775, 207.727, 207.679, 207.631, 207.583, 207.535, 207.487, 207.439, 207.391, 207.343, 207.295, 207.246, 207.198, 207.150, 207.102, 207.054, 207.006, 206.958, 206.910, 206.862, 206.814, 206.766, 206.718, 206.678, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.670, 206.667, 206.644, 206.618, 206.592, 206.566, 206.539, 206.513, 206.487, 206.461, 206.435, 206.409, 206.383, 206.357, 206.331

SURFACE LEVELS: 205.500, 205.809, 206.249, 206.500, 206.500, 206.500, 206.500, 206.500, 206.426, 206.311, 206.304, 206.371, 206.434, 206.500, 206.557, 206.937, 207.000, 207.153, 207.458, 207.500, 207.500, 207.500, 207.500, 207.500, 207.500, 207.483, 207.143, 206.838, 206.500, 206.017, 205.585, 205.309, 205.055, 204.825, 204.500, 204.265, 204.112, 204.039, 203.947, 203.718, 203.500, 203.000, 203.000, 203.000, 203.000, 203.000, 203.144, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.500, 203.633, 203.890, 204.000, 204.046, 204.155, 204.410, 204.500, 204.500, 204.500, 204.500, 204.500, 204.500, 204.500

HORIZONTAL ALIGNMENT: L = 33015.76m

CHAINAGES: 84+000, 84+050, 84+100, 84+150, 84+200, 84+250, 84+300, 84+350, 84+400, 84+450, 84+500, 84+550, 84+600, 84+650, 84+700, 84+750, 84+800, 84+850, 84+900, 84+950, 85+000, 85+050, 85+100, 85+150, 85+200, 85+250, 85+300, 85+350, 85+400, 85+450, 85+500, 85+550, 85+600, 85+650, 85+700, 85+750, 85+800, 85+850, 85+900, 85+950, 86+000, 86+050, 86+100, 86+150, 86+200, 86+250, 86+300, 86+350, 86+400, 86+450, 86+500, 86+550, 86+600, 86+650, 86+700, 86+750, 86+800, 86+850, 86+900, 86+950, 87+000, 87+050, 87+100, 87+150, 87+200, 87+250, 87+300, 87+350, 87+400, 87+450, 87+500

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-

- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
- PROPERTY BOUNDARY
- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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Calibre Operations Pty. Ltd.
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Fax: +61 (0)7 3001 6050

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Brisbane QLD 4000
Australia
Tel: +61 (0)7 3112 5297
Fax: +61 (0)7 3112 5101

adani™
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ORIGINAL SIZE A1

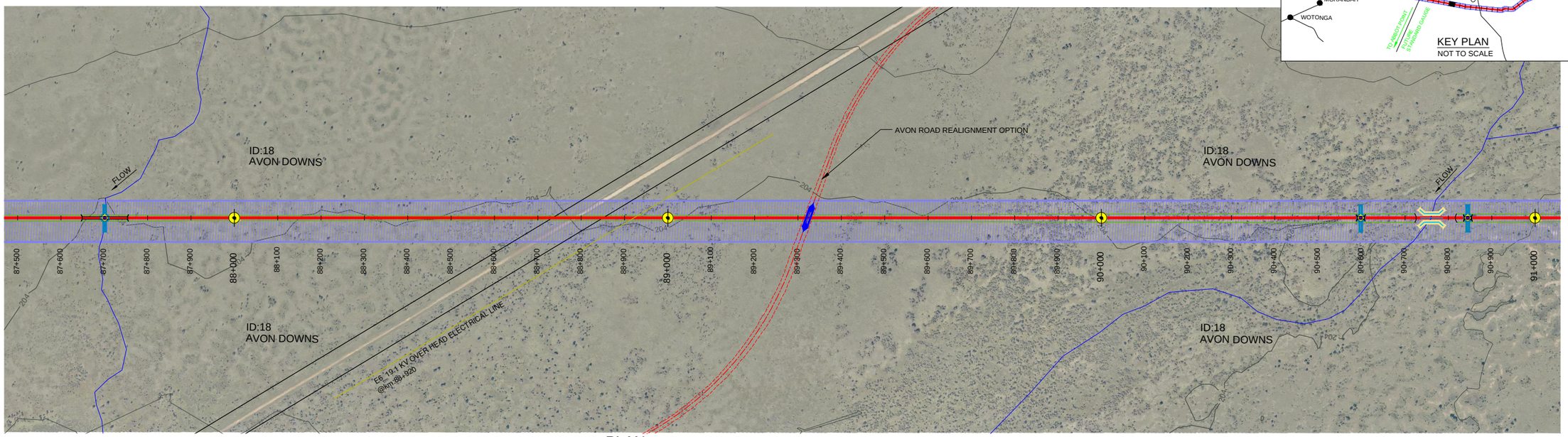
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 84.0 - CH 87.500 - SHEET 25

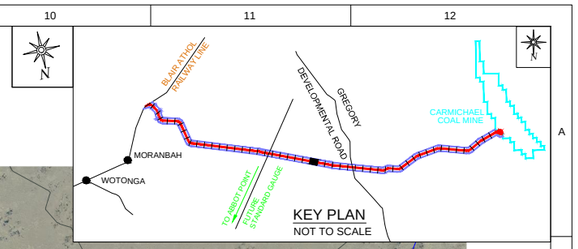
MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-125

REV 0





MORANBAH / QRN

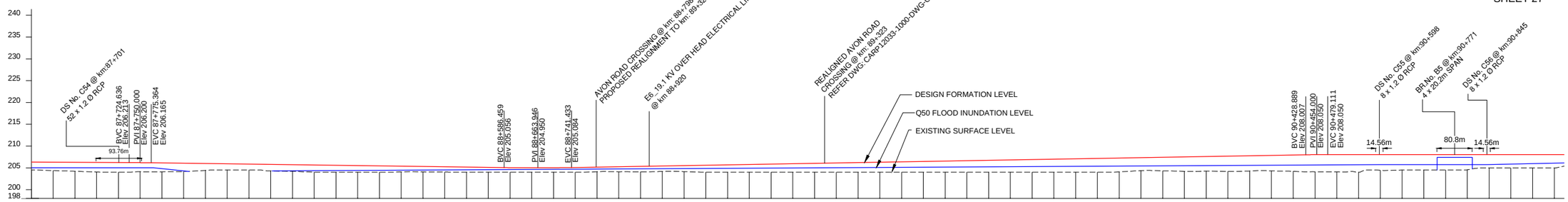
SHEET 25

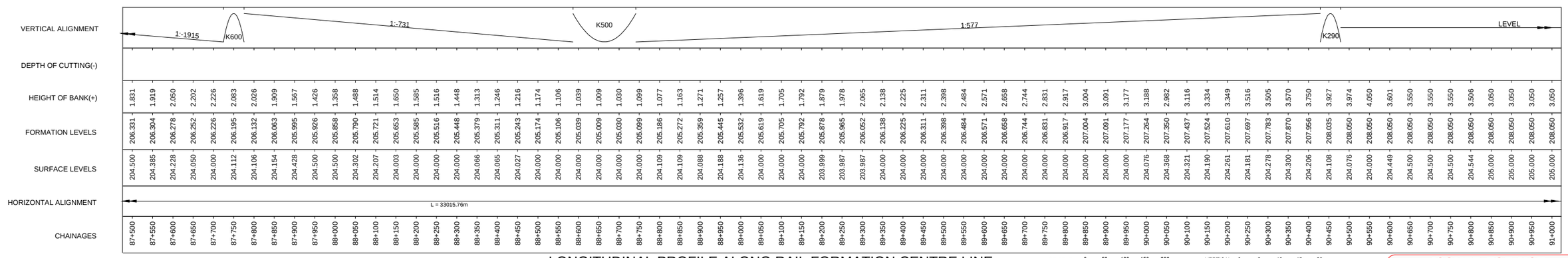
PLAN

1:5000

TO CARMICHAEL COAL MINE

SHEET 27





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HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

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- CUTTING TOE
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- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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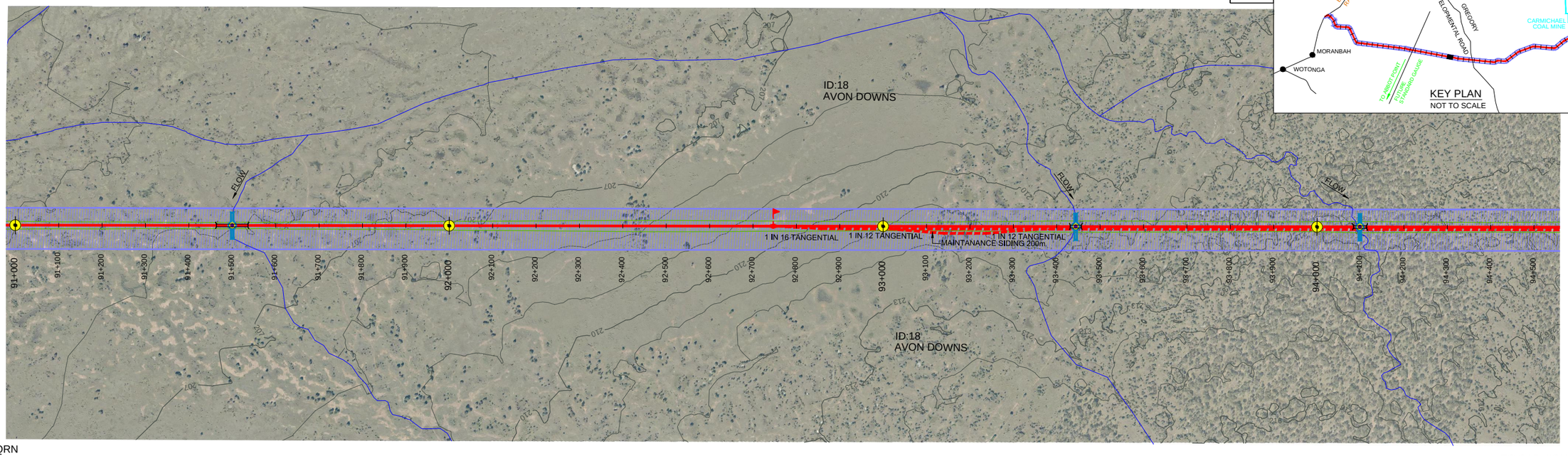
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 87.5 - CH 91.0 - SHEET 26

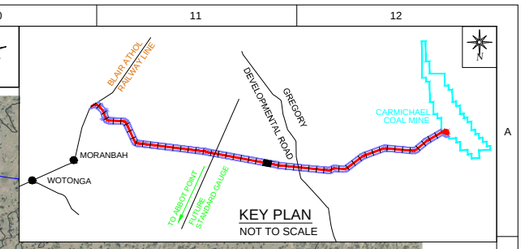
MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-126

REV 0





MORANBAH / QRN

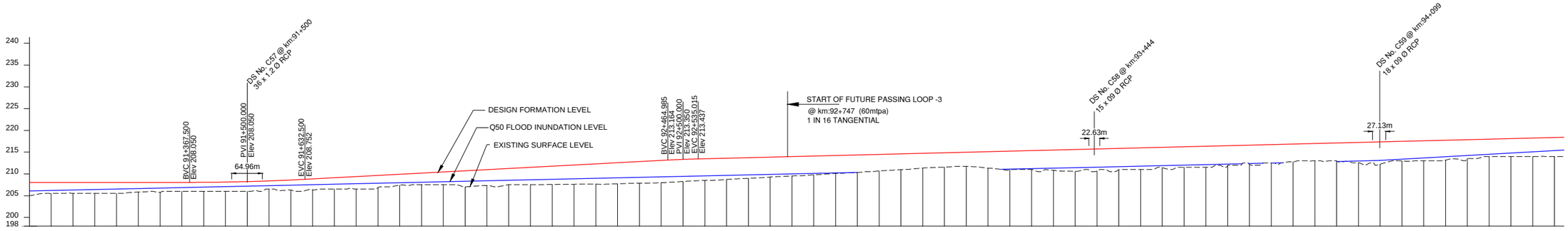
SHEET 26

PLAN

1:5000

TO CARMICHAEL COAL MINE

SHEET 28



VERTICAL ALIGNMENT: LEVEL | K500 | 1:189 | K250 | 1:400

DEPTH OF CUTTING(-)

HEIGHT OF BANK(+): 3.050 2.550 2.550 2.550 2.550 2.239 2.256 2.050 2.061 2.118 2.226 1.883 2.309 2.518 2.610 2.875 2.808 2.505 2.670 2.935 3.700 3.661 3.730 3.995 4.195 4.408 4.662 4.847 4.967 5.089 5.072 4.975 4.893 4.762 4.591 4.460 4.323 4.102 4.035 3.798 3.632 3.397 3.302 3.241 3.808 4.300 4.349 4.630 5.016 5.074 4.916 4.974 4.684 4.724 4.849 4.575 4.417 4.223 4.052 3.973 4.121 4.723 5.098 4.505 4.598 4.554 4.348 3.973 4.098 4.223 4.348

FORMATION LEVELS: 208.050 208.050 208.050 208.050 208.050 208.050 208.050 208.050 208.061 208.118 208.226 208.383 208.591 208.845 209.110 209.375 209.640 209.905 210.170 210.435 210.700 210.965 211.230 211.495 211.760 212.025 212.290 212.555 212.820 213.085 213.325 213.475 213.600 213.725 213.850 213.975 214.100 214.225 214.350 214.474 214.599 214.724 214.849 214.974 215.099 215.224 215.349 215.474 215.599 215.724 215.849 215.974 216.099 216.224 216.349 216.474 216.598 216.723 216.848 216.973 217.098 217.223 217.348 217.473 217.598 217.723 217.848 217.973 218.098 218.223 218.348

SURFACE LEVELS: 205.000 205.500 205.500 205.500 205.500 205.811 205.794 206.000 206.000 206.000 206.000 206.500 206.282 206.327 206.500 206.500 206.500 206.832 207.400 207.500 207.500 207.000 207.304 207.500 207.500 207.565 207.617 207.628 207.708 207.853 207.996 208.253 208.500 208.707 208.963 209.259 209.515 209.777 210.123 210.315 210.676 210.967 211.327 211.547 211.733 211.291 210.924 211.000 210.844 210.583 210.650 210.933 211.000 211.415 211.500 211.500 211.899 212.181 212.500 212.796 213.000 212.977 212.500 212.250 212.968 213.000 213.169 213.500 214.000 214.000 214.000 214.000

HORIZONTAL ALIGNMENT: L = 33015.76m

CHAINAGES: 91+000 91+050 91+100 91+150 91+200 91+250 91+300 91+350 91+400 91+450 91+500 91+550 91+600 91+650 91+700 91+750 91+800 91+850 91+900 91+950 92+000 92+050 92+100 92+150 92+200 92+250 92+300 92+350 92+400 92+450 92+500 92+550 92+600 92+650 92+700 92+750 92+800 92+850 92+900 92+950 93+000 93+050 93+100 93+150 93+200 93+250 93+300 93+350 93+400 93+450 93+500 93+550 93+600 93+650 93+700 93+750 93+800 93+850 93+900 93+950 94+000 94+050 94+100 94+150 94+200 94+250 94+300 94+350 94+400 94+450 94+500

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

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HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

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REV	BY	DATE	DESCRIPTION	CKD	APP
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- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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ORIGINAL SIZE A1

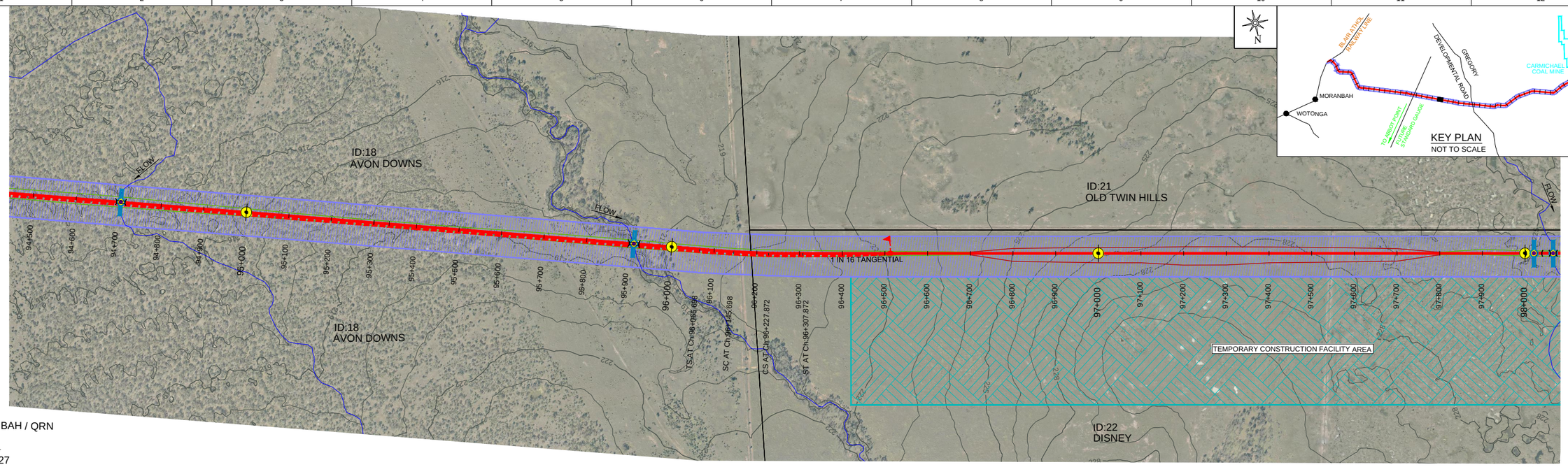
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 91.0 - CH 94.5 - SHEET 27

MASTER COPY

PROJECT No. CARP12033

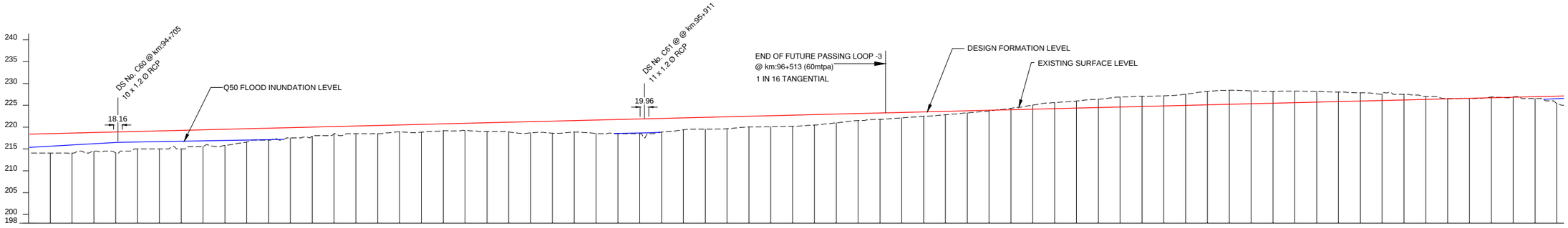
DRG No. CARP12033-1000-DWG-Y-127

REV 0



PLAN

1:5000



VERTICAL ALIGNMENT: 1:400

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
94+500		4.348	218.348	214.000
94+550		4.473	218.473	214.000
94+600		4.598	218.598	214.000
94+650		4.259	218.722	214.463
94+700		4.765	218.847	214.082
94+750		3.972	218.972	215.000
94+800		4.097	219.097	215.000
94+850		4.222	219.222	215.000
94+900		3.815	219.347	215.532
94+950		3.687	219.472	215.785
95+000		3.048	219.597	216.549
95+050		2.722	219.722	217.000
95+100		2.347	219.847	217.500
95+150		2.060	219.972	217.912
95+200		1.633	220.097	218.464
95+250		1.722	220.222	218.500
95+300		1.847	220.347	218.500
95+350		1.577	220.472	218.895
95+400		1.772	220.597	218.825
95+450		1.564	220.722	219.158
95+500		1.629	220.846	219.217
95+550		1.971	220.971	219.000
95+600		2.224	221.096	218.872
95+650		2.568	221.221	218.653
95+700		2.748	221.346	218.598
95+750		2.626	221.471	218.845
95+800		3.082	221.596	218.514
95+850		3.221	221.721	218.500
95+900		3.346	221.846	218.500
95+950		3.145	221.971	218.826
96+000		2.734	222.096	219.362
96+050		2.721	222.221	219.500
96+100		2.758	222.346	219.588
96+150		2.471	222.471	220.000
96+200		2.520	222.596	220.076
96+250		2.585	222.721	220.136
96+300		2.379	222.846	220.467
96+350		2.011	222.970	220.959
96+400		1.603	223.095	221.492
96+450		1.472	223.220	221.748
96+500		1.246	223.345	222.099
96+550		1.010	223.470	222.460
96+600		0.786	223.595	222.809
96+650		0.487	223.720	223.233
96+700		0.161	223.845	223.684
96+750	0.311		223.970	224.281
96+800	0.921		224.095	225.016
96+850	1.377		224.220	225.597
96+900	1.599		224.345	225.944
96+950	1.901		224.470	226.371
97+000	2.288		224.595	226.883
97+050	2.339		224.720	227.059
97+100	2.295		224.845	227.140
97+150	2.566		224.970	227.536
97+200	3.085		225.094	228.179
97+250	3.211		225.219	228.430
97+300	2.948		225.344	228.292
97+350	2.664		225.469	228.133
97+400	2.616		225.594	228.210
97+450	2.446		225.719	228.165
97+500	2.156		225.844	228.000
97+550	1.861		225.969	227.830
97+600	1.517		226.094	227.611
97+650	1.281		226.219	227.500
97+700	0.656		226.344	227.000
97+750	0.031		226.469	226.500
97+800		0.094	226.594	226.500
97+850	0.178		226.719	226.897
97+900	0.029		226.844	226.873
97+950		0.469	226.969	226.500
98+000		1.659	227.094	225.435

HORIZONTAL ALIGNMENT: L = 33015.76m; Tr= 80.00m; R =-2000m; Tr= 80.00m; L = 22715.18m

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- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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adani

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ORIGINAL SIZE A1

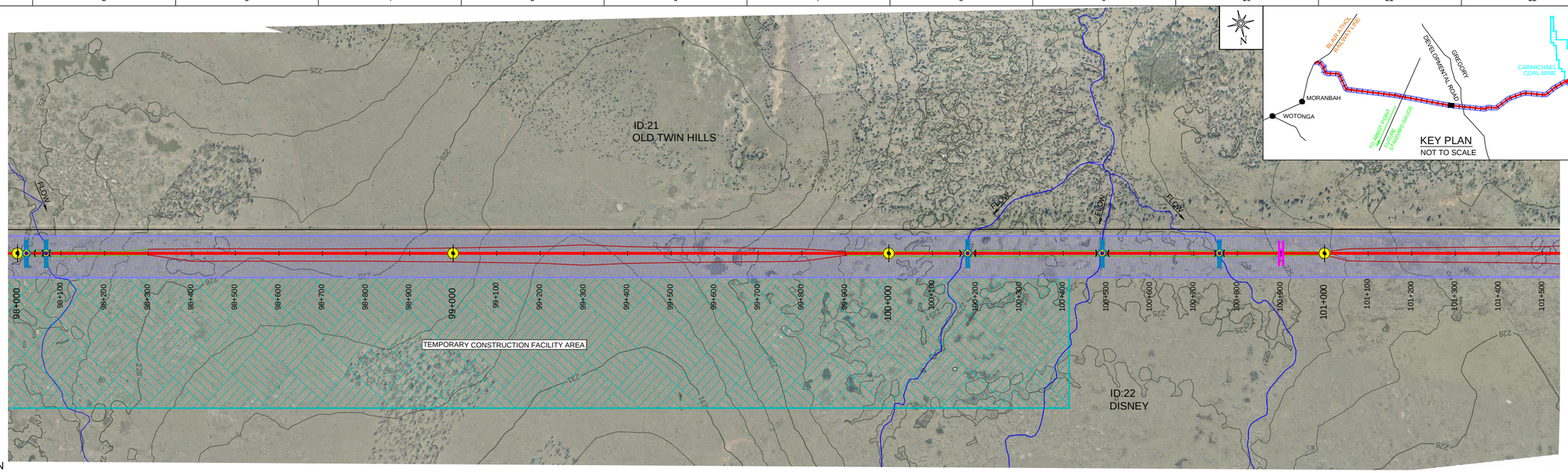
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 94.5 - CH 98.0 - SHEET 28

MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-128

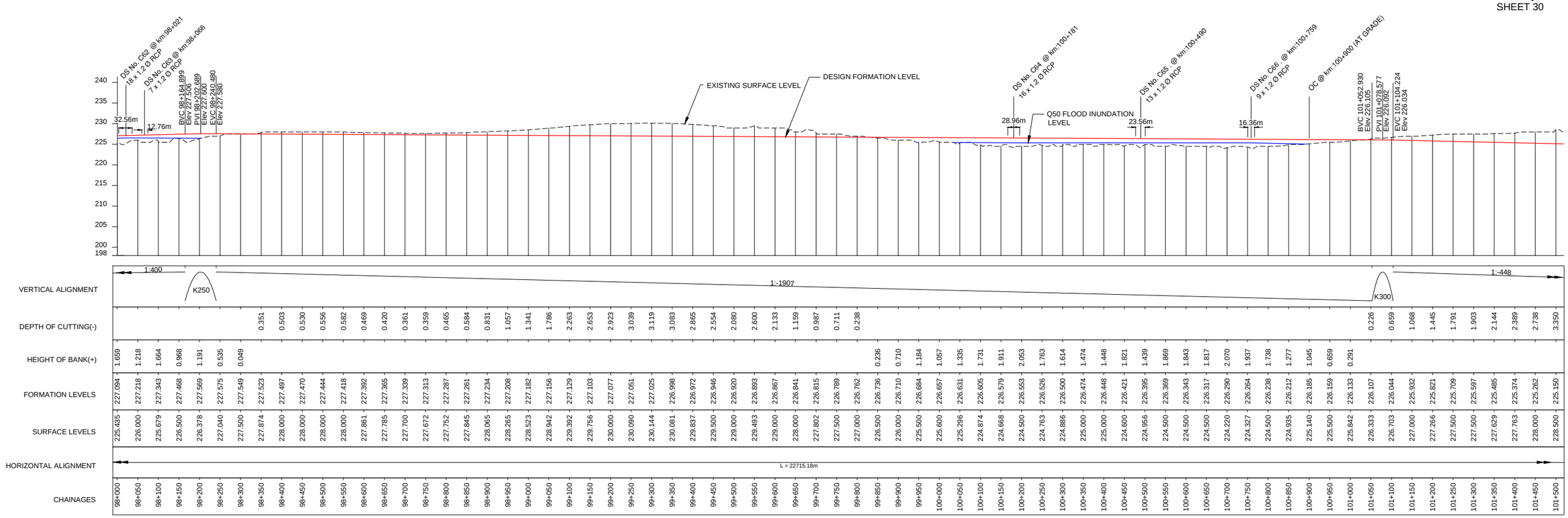
REV 0



MORANBAH / QRN
SHEET 28

PLAN
1:5000

TO CARMICHAEL COAL MINE
SHEET 30



LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

REVISIONS

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
- PROPERTY BOUNDARY
- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- TEMPORARY CONSTRUCTION FACILITY AREA

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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ORIGINAL SIZE A1

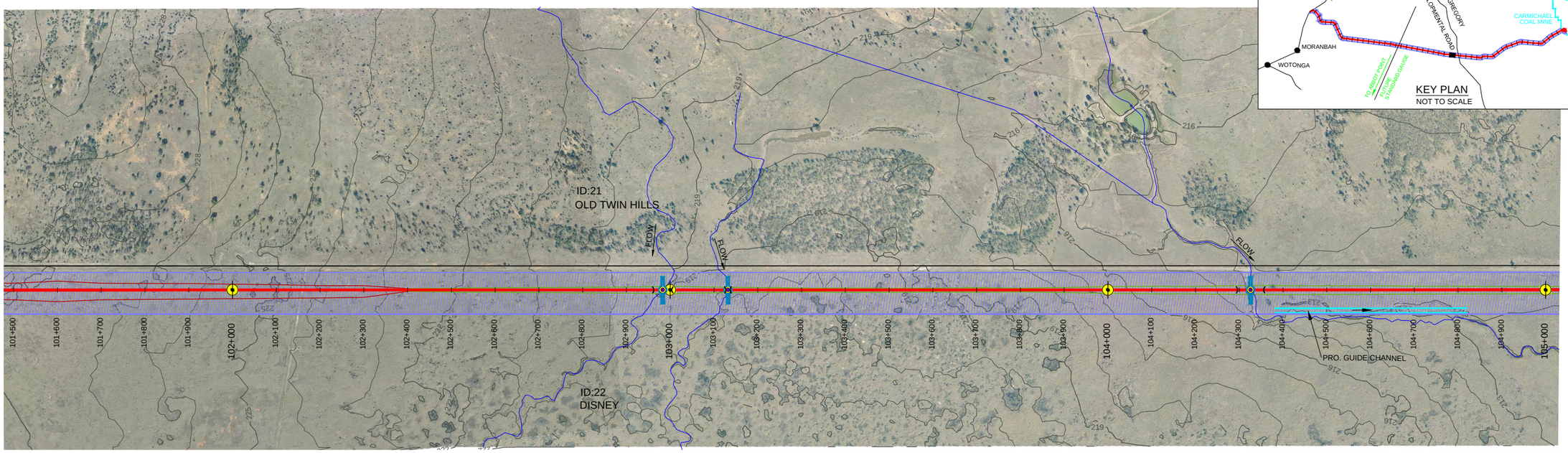
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 98.0- 101.5 - SHEET 29

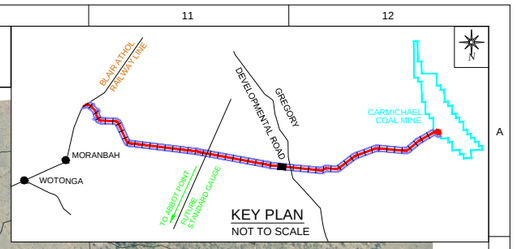
MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-129

REV 0

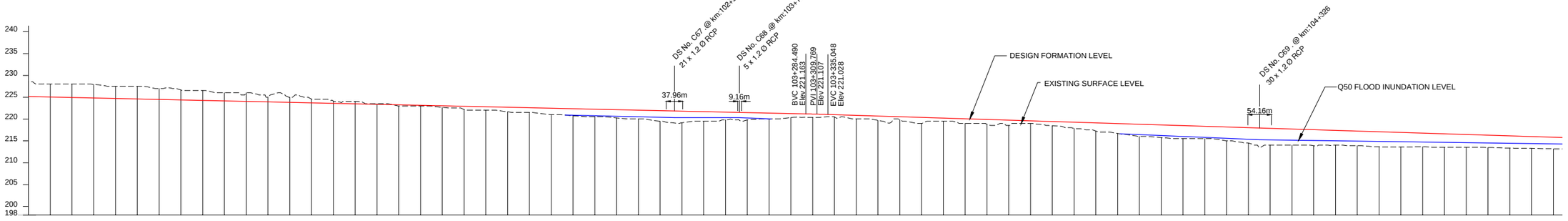




MORANBAH / QRN
SHEET 29

PLAN
1:5000

TO CARMICHAEL
COAL MINE
SHEET 31



VERTICAL ALIGNMENT: 1:-448 | K570 | 1:-320

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
101+500	3.350		225.150	228.500
101+550	2.961		225.039	228.000
101+600	3.073		224.927	228.000
101+650	3.086		224.815	227.901
101+700	2.797		224.703	227.500
101+750	2.908		224.592	227.500
101+800	2.520		224.480	227.000
101+850	2.255		224.368	226.623
101+900	2.243		224.257	226.500
101+950	1.855		224.145	226.000
102+000	1.967		224.033	226.000
102+050	1.161		223.921	225.082
102+100	1.190		223.810	225.000
102+150	0.812		223.698	224.510
102+200	0.471		223.586	224.057
102+250	0.525		223.475	224.000
102+300	0.137		223.363	223.500
102+350		0.251	223.251	223.000
102+400		0.139	223.139	223.000
102+450		0.371	223.028	222.657
102+500		0.722	222.916	222.194
102+550		0.804	222.804	222.000
102+600		1.042	222.693	221.651
102+650		1.081	222.581	221.500
102+700		1.469	222.469	221.000
102+750		1.624	222.357	220.733
102+800		1.746	222.246	220.500
102+850		1.882	222.134	220.252
102+900		2.022	222.022	220.000
102+950		2.411	221.911	219.500
103+000		2.687	221.799	219.112
103+050		2.187	221.687	219.500
103+100		1.802	221.576	219.774
103+150		1.668	221.464	219.796
103+200		1.352	221.352	220.000
103+250		0.901	221.240	220.339
103+300		0.790	221.127	220.337
103+350		0.518	220.981	220.463
103+400		0.825	220.825	220.000
103+450		1.001	220.669	219.668
103+500		0.678	220.513	219.835
103+550		1.357	220.357	219.000
103+600		0.701	220.201	219.500
103+650		1.045	220.045	219.000
103+700		1.084	219.889	218.805
103+750		1.233	219.733	218.500
103+800		0.577	219.577	219.000
103+850		0.977	219.421	218.444
103+900		1.412	219.265	217.853
103+950		1.862	219.109	217.247
104+000		2.260	218.952	216.692
104+050		2.787	218.796	216.009
104+100		2.896	218.640	215.744
104+150		2.984	218.484	215.500
104+200		2.828	218.328	215.500
104+250		3.172	218.172	215.000
104+300		3.543	218.016	214.473
104+350		3.860	217.860	214.000
104+400		3.704	217.704	214.000
104+450		3.690	217.548	213.858
104+500		3.392	217.392	214.000
104+550		3.368	217.236	213.868
104+600		3.466	217.080	213.614
104+650		3.352	216.924	213.572
104+700		3.154	216.768	213.614
104+750		3.112	216.612	213.500
104+800		2.956	216.456	213.500
104+850		2.848	216.299	213.451
104+900		2.828	216.143	213.315
104+950		2.717	215.987	213.270
105+000		2.654	215.831	213.177

HORIZONTAL alignment: L = 22715.18m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE
HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres
VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

REVISIONS

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
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- PROPOSED ALIGNMENT (OPTION-11 REV-2)
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- OCCUPATIONAL CROSSING (OC) UNDER PASS
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- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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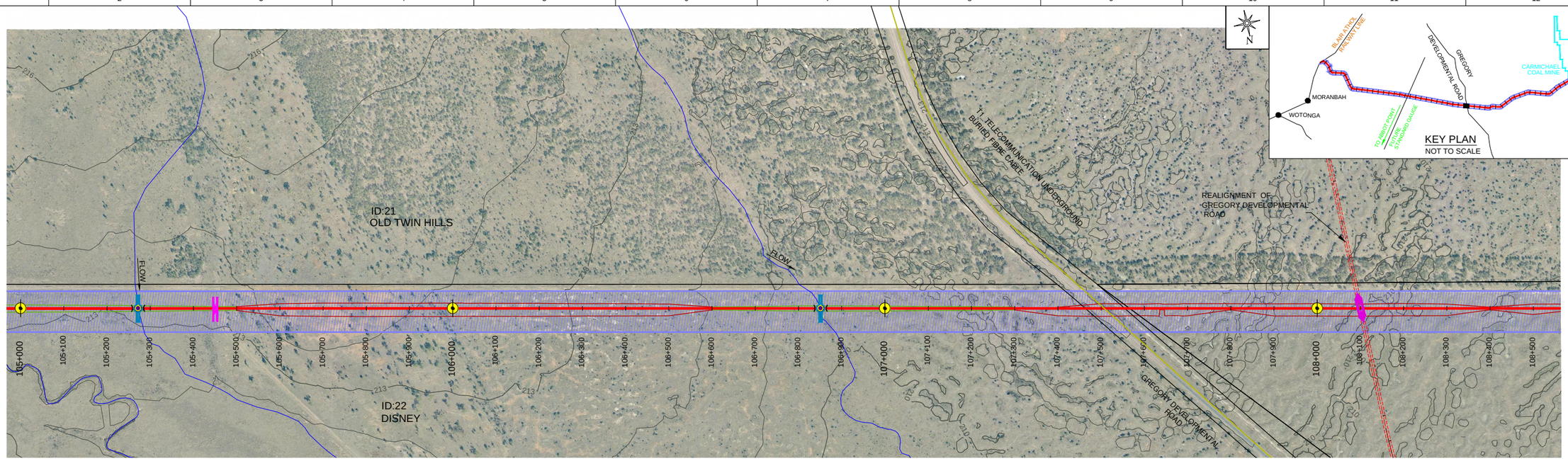
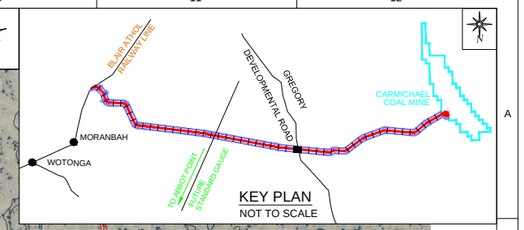
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 101.5 - CH 105 - SHEET 30

MASTER COPY

PROJECT No. CARP12033
DRG No. CARP12033-1000-DWG-Y-130
REV 0

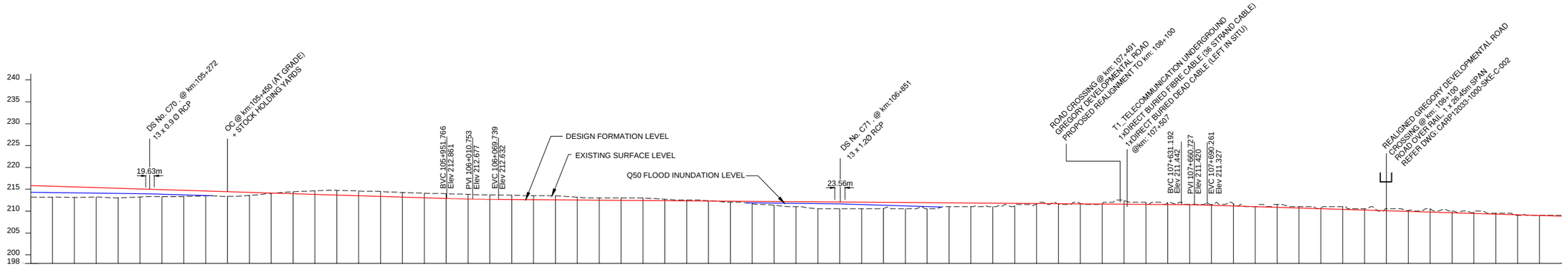




MORANBAH / QRN
SHEET 30

PLAN
1:5000

TO CARMICHAEL
COAL MINE
SHEET 32



VERTICAL ALIGNMENT: 1:-320 | K500 | 1:-1313 | K250 | 1:-320

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
105+000		2.654	215.831	213.177
105+050		2.502	215.675	213.173
105+100		2.428	215.519	213.091
105+150		2.177	215.363	213.186
105+200		2.193	215.207	213.014
105+250		1.863	215.051	213.188
105+300		1.598	214.895	213.297
105+350		1.411	214.739	213.328
105+400		1.094	214.583	213.489
105+450		1.074	214.427	213.353
105+500		0.712	214.271	213.559
105+550		0.102	214.115	214.013
105+600	0.444		213.959	214.403
105+650	0.815		213.803	214.618
105+700	1.057		213.646	214.703
105+750	1.067		213.490	214.557
105+800	1.135		213.334	214.469
105+850	1.053		213.178	214.231
105+900	1.037		213.022	214.059
105+950	1.088		212.866	213.954
106+000	1.067		212.733	213.800
106+050	1.006		212.651	213.657
106+100	1.006		212.609	213.615
106+150	0.930		212.570	213.500
106+200	0.968		212.532	213.500
106+250	0.640		212.494	213.134
106+300	0.544		212.456	213.000
106+350	0.582		212.418	213.000
106+400	0.593		212.380	212.973
106+450	0.362		212.342	212.704
106+500	0.196		212.304	212.500
106+550	0.085		212.266	212.351
106+600		0.228	212.228	212.000
106+650		0.517	212.190	211.673
106+700		0.841	212.152	211.311
106+750		1.113	212.113	211.000
106+800		1.575	212.075	210.500
106+850		1.537	212.037	210.500
106+900		1.499	211.999	210.500
106+950		1.448	211.961	210.513
107+000		1.423	211.923	210.500
107+050		1.361	211.885	210.524
107+100		0.847	211.847	211.000
107+150		0.809	211.809	211.000
107+200		0.771	211.771	211.000
107+250		0.528	211.733	211.205
107+300		0.110	211.695	211.585
107+350		0.038	211.656	211.618
107+400	0.109		211.618	211.727
107+450	0.038		211.580	211.618
107+500	0.857		211.542	212.399
107+550	0.397		211.504	211.901
107+600	0.474		211.466	211.940
107+650	0.079		211.421	211.500
107+700	0.203		211.297	211.500
107+750	0.482		211.141	211.623
107+800	0.015		210.985	211.000
107+850	0.672		210.828	211.500
107+900	0.328		210.672	211.000
107+950	0.125		210.516	210.641
108+000	0.640		210.360	211.000
108+050	0.297		210.203	210.500
108+100	0.453		210.047	210.500
108+150	0.229		209.891	210.120
108+200	0.761		209.735	210.496
108+250	0.421		209.579	210.000
108+300	0.352		209.422	209.774
108+350	0.234		209.266	209.500
108+400		0.110	209.110	209.000
108+450	0.046		208.954	209.000
108+500	0.203		208.797	209.000

HORIZONTAL ALIGNMENT: L = 22715.18m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE
HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000: 0 50 100 150 200 Metres
VERTICAL 1:500: 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
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- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- REALIGNMENT OF GREGORY DEVELOPMENTAL ROAD
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
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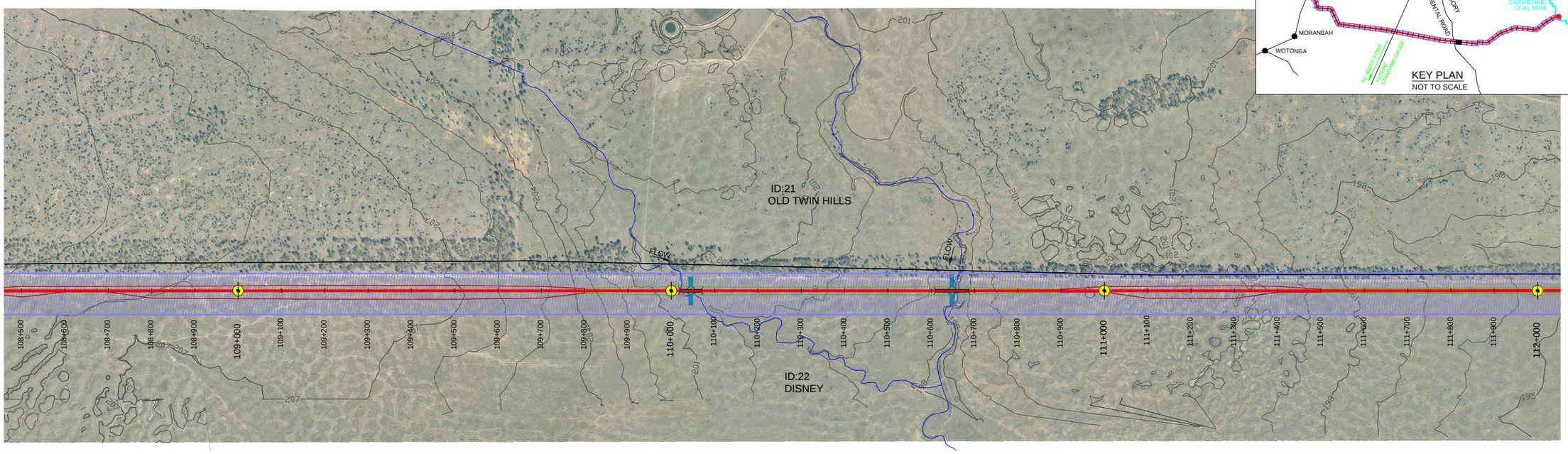
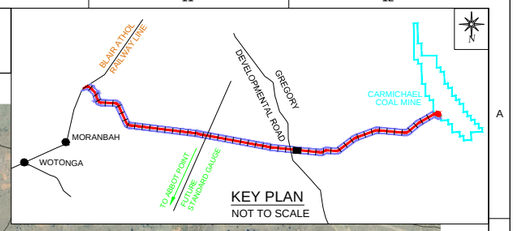
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 105.0 - CH 108.5 - SHEET 31

MASTER COPY

PROJECT No. CARP12033
DRG No. CARP12033-1000-DWG-Y-131
REV 0



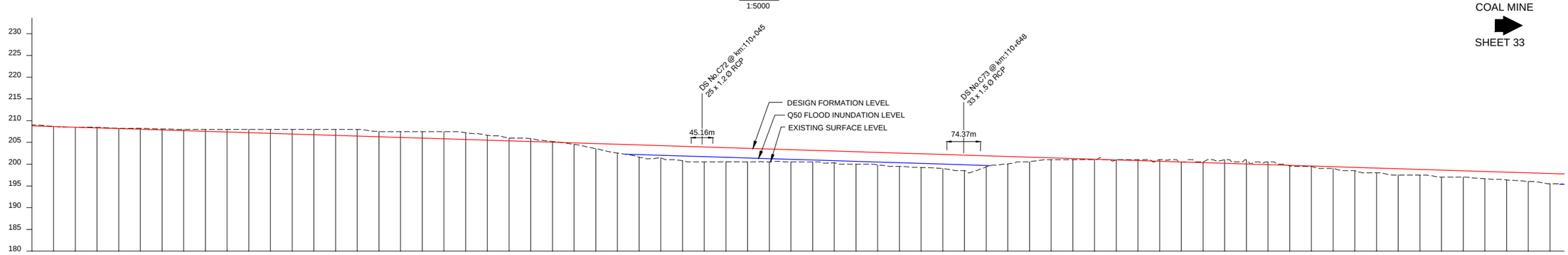


KEY PLAN
NOT TO SCALE

MORANBAH / QRN
SHEET 31

PLAN
1:5000

TO CARMICHAEL COAL MINE
SHEET 33



VERTICAL ALIGNMENT: 1:-320

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
108+500	0.203		208.797	209.000
108+550	0.027		208.641	208.668
108+600	0.015		208.485	208.500
108+650	0.147		208.329	208.476
108+700	0.083		208.173	208.256
108+750	0.228		208.016	208.244
108+800	0.229		207.860	208.089
108+850	0.296		207.704	208.000
108+900	0.452		207.548	208.000
108+950	0.609		207.391	208.000
109+000	0.765		207.235	208.000
109+050	0.921		207.079	208.000
109+100	1.077		206.923	208.000
109+150	1.233		206.767	208.000
109+200	1.390		206.610	208.000
109+250	1.546		206.454	208.000
109+300	1.226		206.298	207.524
109+350	1.358		206.142	207.500
109+400	1.515		205.985	207.500
109+450	1.671		205.829	207.500
109+500	1.561		205.673	207.234
109+550	1.128		205.517	206.645
109+600	0.639		205.361	206.000
109+650	0.651		205.204	205.855
109+700	0.178		205.048	205.226
109+750		0.351	204.892	204.541
109+800		1.203	204.736	203.533
109+850		2.017	204.579	202.562
109+900		2.827	204.423	201.596
109+950		2.827	204.267	201.440
110+000		3.342	204.111	200.769
110+050		3.455	203.955	200.500
110+100		3.264	203.798	200.534
110+150		3.142	203.642	200.500
110+200		2.957	203.486	200.529
110+250		2.830	203.330	200.500
110+300		2.673	203.173	200.500
110+350		2.698	203.017	200.319
110+400		2.861	202.861	200.000
110+450		2.873	202.705	199.832
110+500		3.049	202.549	199.500
110+550		3.170	202.392	199.222
110+600		3.245	202.236	198.991
110+650		3.580	202.080	198.500
110+700		2.517	201.924	199.407
110+750		1.735	201.767	200.032
110+800		1.038	201.611	200.573
110+850		0.455	201.455	201.000
110+900		0.299	201.299	201.000
110+950		0.143	201.143	201.000
111+000		0.043	200.986	200.943
111+050	0.170		200.830	201.000
111+100	0.326		200.674	201.000
111+150		0.018	200.518	200.500
111+200	0.139		200.361	200.500
111+250	0.795		200.205	201.000
111+300	0.867		200.049	200.916
111+350	0.607		199.893	200.500
111+400		0.147	199.737	199.590
111+450		0.111	199.580	199.469
111+500		0.424	199.424	199.000
111+550		0.768	199.268	198.500
111+600		1.112	199.112	198.000
111+650		1.455	198.955	197.500
111+700		1.299	198.799	197.500
111+750		1.643	198.643	197.000
111+800		1.487	198.487	197.000
111+850		1.700	198.331	196.631
111+900		1.784	198.174	196.390
111+950		1.997	198.018	196.021
112+000		2.362	197.862	195.500

HORIZONTAL ALIGNMENT: L=22715.18m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
- PROPERTY BOUNDARY
- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SREVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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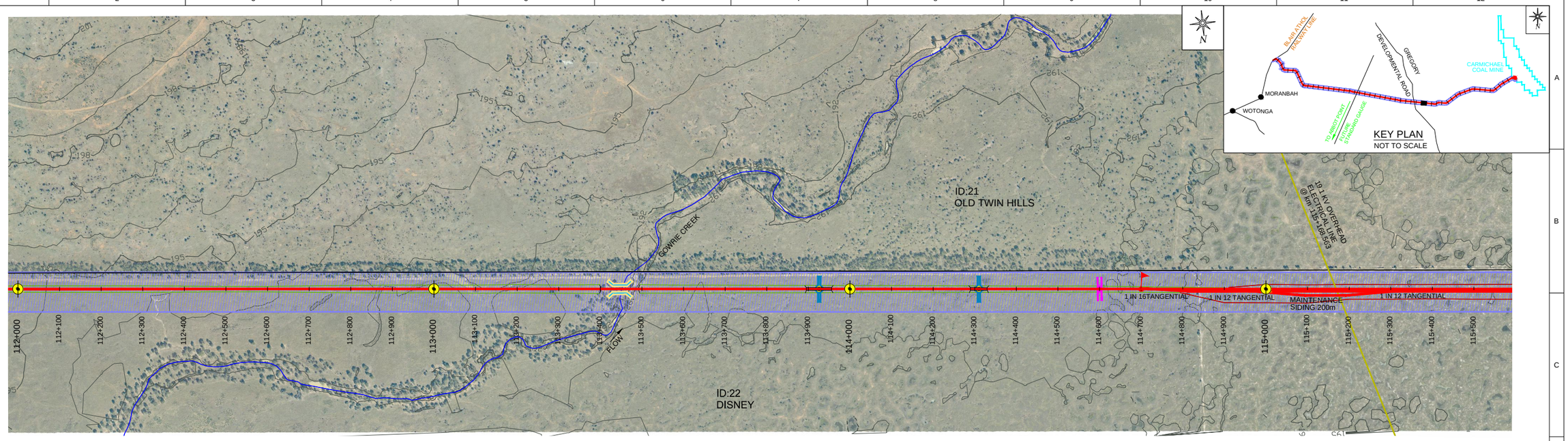
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 108.5 - CH 112.0 - SHEET 32

MASTER COPY

PROJECT No. CARP12033

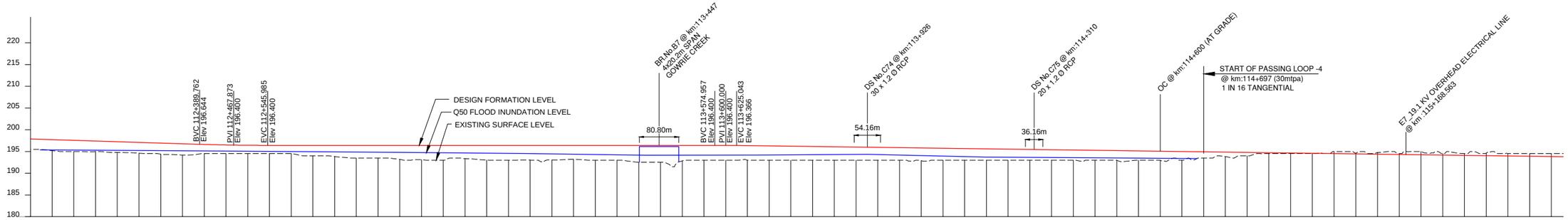
DRG No. CARP12033-1000-DWG-Y-132 REV 0



MORANBAH / QRN
SHEET 32

PLAN
1:5000

TO CARMICHAEL COAL MINE
SHEET 34



VERTICAL ALIGNMENT: 1:-320 | K500 | LEVEL | K370 | 1:-739

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
112+000		2.362	197.862	195.500
112+050		2.522	197.706	195.184
112+100		2.549	197.549	195.000
112+150		2.414	197.393	194.979
112+200		2.475	197.237	194.762
112+250		2.487	197.081	194.594
112+300		2.536	196.925	194.389
112+350		2.583	196.768	194.185
112+400		2.113	196.613	194.500
112+450		1.992	196.492	194.500
112+500		1.921	196.421	194.500
112+550		1.900	196.400	194.500
112+600		1.900	196.400	194.500
112+650		2.400	196.400	194.000
112+700		2.563	196.400	193.837
112+750		2.900	196.400	193.500
112+800		2.900	196.400	193.500
112+850		3.241	196.400	193.159
112+900		3.311	196.400	193.089
112+950		3.400	196.400	193.000
113+000		3.038	196.400	193.362
113+050		3.385	196.400	193.015
113+100		3.400	196.400	193.000
113+150		3.392	196.400	193.008
113+200		3.366	196.400	193.034
113+250		3.206	196.400	193.194
113+300		3.400	196.400	193.000
113+350		3.400	196.400	193.000
113+400		3.900	196.400	192.500
113+450		3.900	196.400	192.500
113+500		3.571	196.400	192.829
113+550		3.400	196.400	193.000
113+600		3.392	196.392	193.000
113+650		3.332	196.332	193.000
113+700		3.265	196.265	193.000
113+750		3.197	196.197	193.000
113+800		3.129	196.129	193.000
113+850		3.062	196.062	193.000
113+900		2.994	195.994	193.000
113+950		2.926	195.926	193.000
114+000		2.859	195.859	193.000
114+050		2.883	195.791	192.908
114+100		2.723	195.723	193.000
114+150		2.655	195.655	193.000
114+200		2.588	195.588	193.000
114+250		2.520	195.520	193.000
114+300		2.452	195.452	193.000
114+350		2.385	195.385	193.000
114+400		2.317	195.317	193.000
114+450		2.249	195.249	193.000
114+500		2.204	195.182	192.978
114+550		2.114	195.114	193.000
114+600		2.063	195.046	192.983
114+650		1.979	194.979	193.000
114+700		1.411	194.911	193.500
114+750		1.053	194.843	193.790
114+800		0.776	194.776	194.000
114+850		0.208	194.708	194.500
114+900		0.140	194.640	194.500
114+950		0.073	194.573	194.500
115+000	0.495		194.505	195.000
115+050	0.140		194.437	194.577
115+100	0.384		194.369	194.753
115+150	0.198		194.302	194.500
115+200	0.766		194.234	195.000
115+250	0.334		194.166	194.500
115+300	0.401		194.099	194.500
115+350	0.565		194.031	194.596
115+400	0.545		193.963	194.508
115+450	0.604		193.896	194.500
115+500	0.672		193.828	194.500

HORIZONTAL ALIGNMENT: L = 22715.18m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE
HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres
VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
- PROPERTY BOUNDARY
- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
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- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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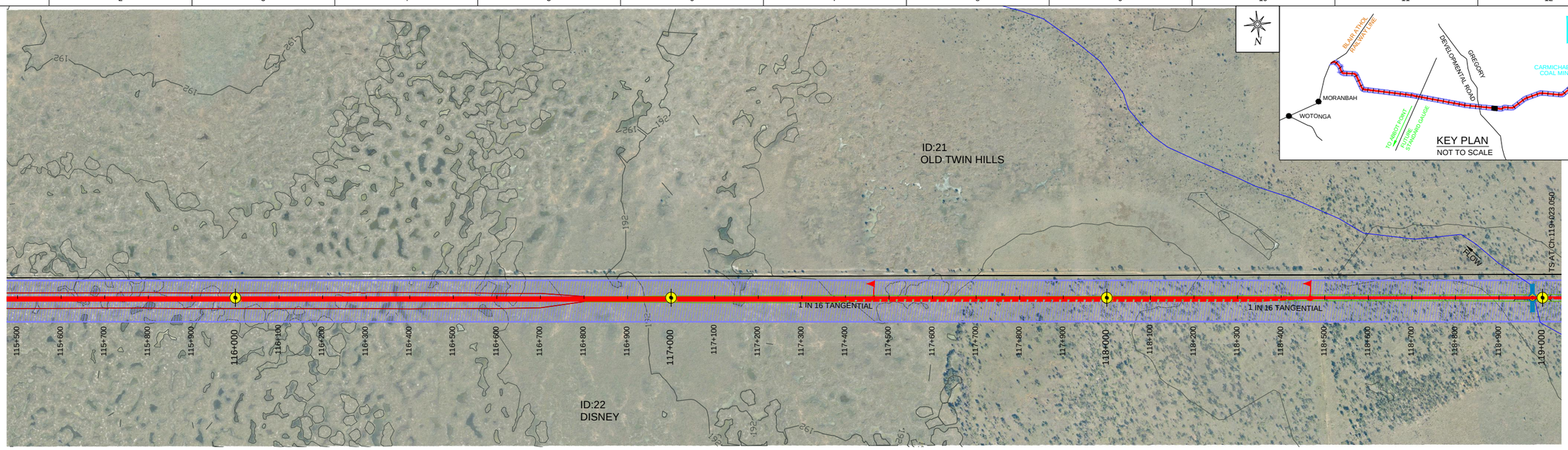
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 112.0 - CH 115.50 - SHEET 33

MASTER COPY

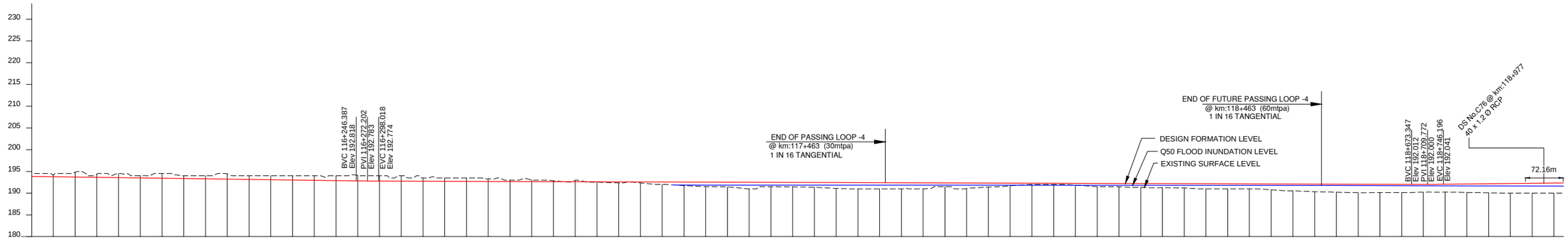
PROJECT No. CARP12033
DRG No. CARP12033-1000-DWG-Y-133
REV 0



MORANBAH / QRN
SHEET 33

PLAN
1:5000

TO CARMICHAEL COAL MINE
SHEET 35



VERTICAL ALIGNMENT: 1:-739 | K500 | 1:-3115 | K500 | 1:880

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
115+500	0.672		193.828	194.500
115+550	0.412		193.760	194.172
115+600	1.107		193.693	194.800
115+650	0.757		193.625	194.382
115+700	0.943		193.557	194.500
115+750	0.544		193.490	194.034
115+800	1.078		193.422	194.500
115+850	0.646		193.354	194.000
115+900	0.714		193.286	194.000
115+950	1.196		193.219	194.415
116+000	0.849		193.151	194.000
116+050	0.917		193.083	194.000
116+100	0.984		193.016	194.000
116+150	1.052		192.948	194.000
116+200	1.120		192.880	194.000
116+250	1.271		192.813	194.084
116+300	1.226		192.774	194.000
116+350	1.242		192.758	194.000
116+400	0.758		192.742	193.500
116+450	0.774		192.726	193.500
116+500	0.791		192.709	193.500
116+550	0.583		192.693	193.276
116+600	0.323		192.677	193.000
116+650	0.368		192.661	193.029
116+700	0.205		192.645	192.850
116+750	0.333		192.629	192.962
116+800		0.113	192.613	192.500
116+850		0.250	192.597	192.347
116+900		0.238	192.581	192.343
116+950		0.565	192.565	192.000
117+000		0.813	192.549	191.736
117+050		1.017	192.533	191.516
117+100		1.098	192.517	191.419
117+150		1.501	192.501	191.000
117+200		0.985	192.485	191.500
117+250		1.032	192.469	191.437
117+300		1.117	192.453	191.336
117+350		1.344	192.437	191.093
117+400		1.421	192.421	191.000
117+450		1.404	192.404	191.000
117+500		1.388	192.388	191.000
117+550		1.370	192.372	191.002
117+600		0.856	192.356	191.500
117+650		1.279	192.340	191.061
117+700		0.921	192.324	191.403
117+750		0.628	192.308	191.680
117+800		0.292	192.292	192.000
117+850		0.276	192.276	192.000
117+900		0.412	192.260	191.848
117+950		0.731	192.244	191.513
118+000		0.760	192.228	191.468
118+050		0.887	192.212	191.325
118+100		0.931	192.196	191.265
118+150		0.985	192.180	191.195
118+200		1.164	192.164	191.000
118+250		1.148	192.148	191.000
118+300		1.132	192.132	191.000
118+350		1.351	192.116	190.765
118+400		1.599	192.099	190.500
118+450		1.739	192.083	190.344
118+500		1.853	192.067	190.214
118+550		1.941	192.051	190.110
118+600		1.908	192.035	190.127
118+650		1.884	192.019	190.135
118+700		1.790	192.010	190.220
118+750		1.802	192.046	190.244
118+800		1.941	192.102	190.161
118+850		2.078	192.159	190.081
118+900		2.216	192.216	190.000
118+950		2.273	192.273	190.000
119+000		2.330	192.330	190.000

HORIZONTAL ALIGNMENT: L = 22715.18m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE
HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres
VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
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DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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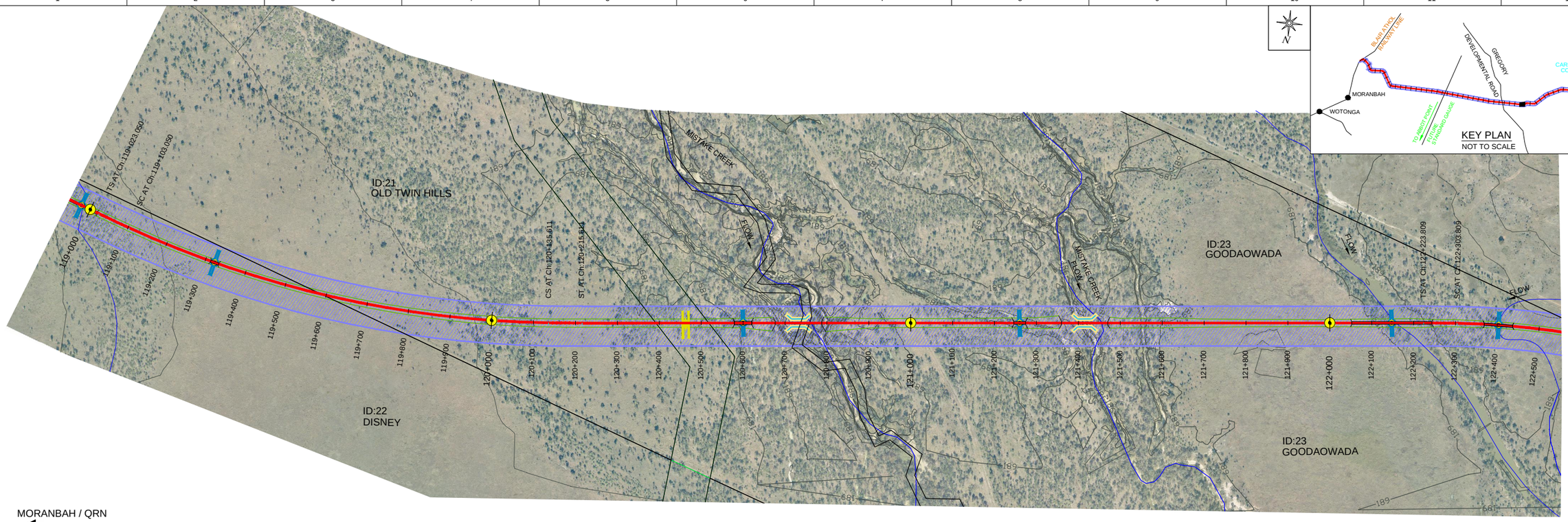
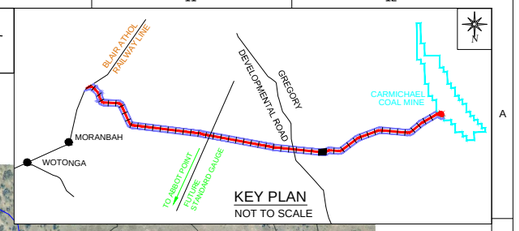
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 115.5 - CH 119.0 - SHEET 34

MASTER COPY

PROJECT No. CARP12033
DRG No. CARP12033-1000-DWG-Y-134
REV 0





MORANBAH / QRN

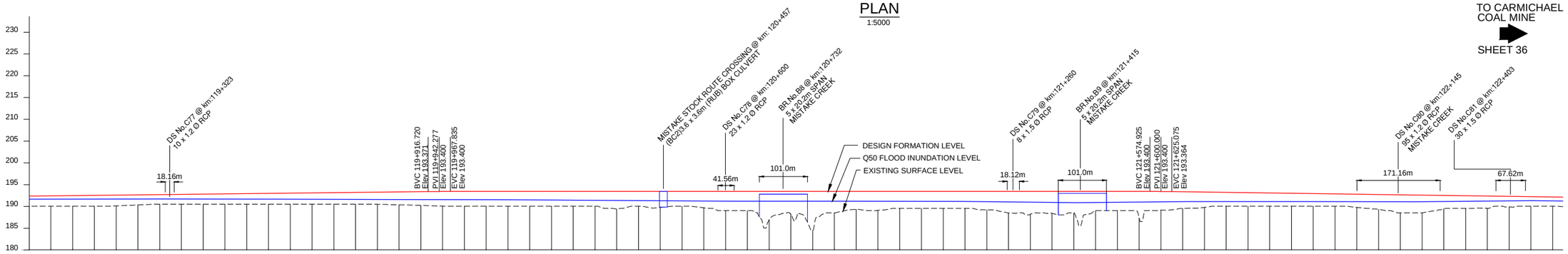
SHEET 34

PLAN

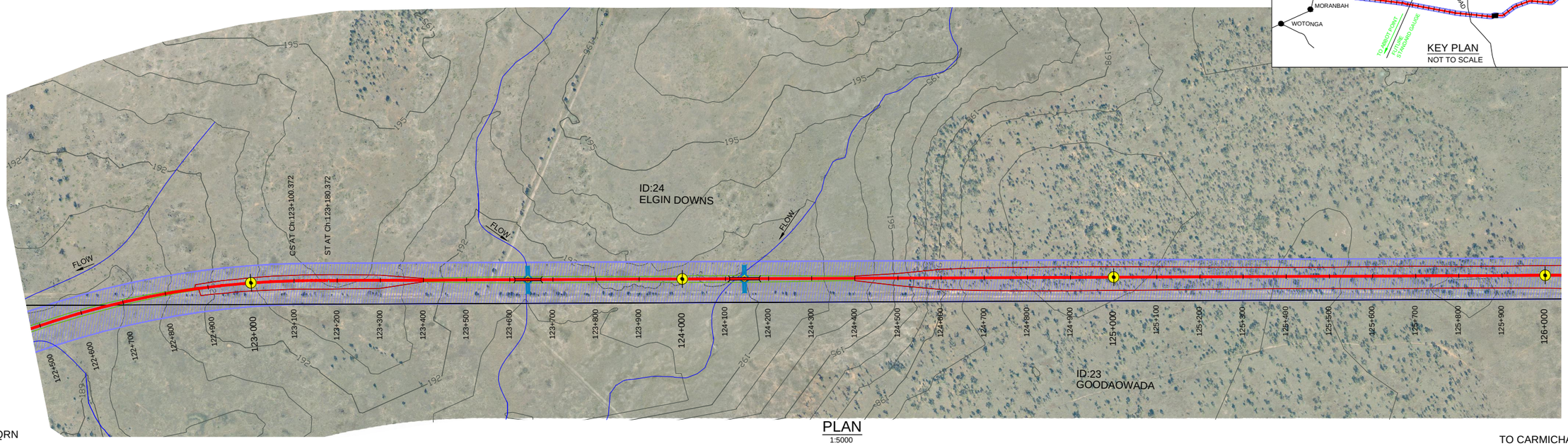
1:5000

TO CARMICHAEL COAL MINE

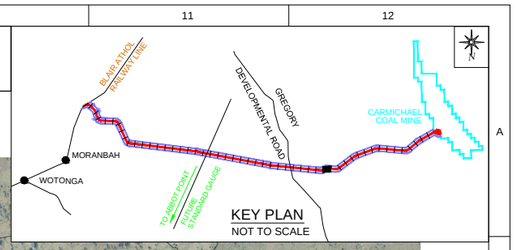
SHEET 36



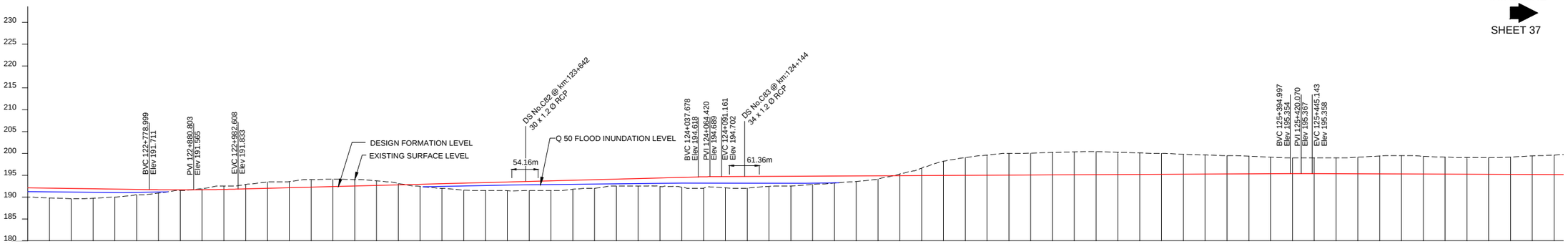
VERTICAL ALIGNMENT	1:880 · K450 · LEVEL · K350 · 1:-698
DEPTH OF CUTTING(-)	
HEIGHT OF BANK(+)	2.330 2.386 2.443 2.500 2.476 2.313 2.170 2.227 2.284 2.341 2.398 2.454 2.511 2.568 2.625 2.682 2.771 2.968 3.162 3.369 3.400 3.400 3.400 3.400 3.400 3.400 3.400 3.400 4.023 3.400 3.678 3.400 3.748 4.400 4.400 6.497 5.157 8.900 4.900 4.122 4.331 3.900 3.900 3.900 3.900 4.201 4.951 5.260 5.022 4.900 4.400 4.400 6.127 4.284 3.828 3.507 3.185 3.113 3.042 2.970 2.898 2.827 3.014 3.396 4.112 4.040 3.067 2.897 2.825 2.407 2.182 2.110
FORMATION LEVELS	192.330 192.386 192.443 192.500 192.557 192.614 192.670 192.727 192.784 192.841 192.898 192.954 193.011 193.068 193.125 193.182 193.238 193.295 193.352 193.396 193.400 193.400 193.400



PLAN
1:5000



KEY PLAN
NOT TO SCALE



VERTICAL ALIGNMENT: 1:-698 | K500 | 1:379 | K250 | 1:2000 | K600 | 1:-2978

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
122+500		2.110	192.110	190.000
122+550		2.228	192.039	189.811
122+600		2.331	191.967	189.636
122+650		2.181	191.895	189.714
122+700		1.824	191.824	190.000
122+750		1.252	191.752	190.500
122+800		0.761	191.685	190.924
122+850		0.159	191.659	191.500
122+900	0.233		191.684	191.917
122+950	0.742		191.758	192.500
123+000	1.011		191.879	192.890
123+050	1.463		192.011	193.474
123+100	1.388		192.143	193.531
123+150	1.725		192.275	194.000
123+200	1.698		192.407	194.105
123+250	1.469		192.539	194.008
123+300	1.051		192.671	193.722
123+350	0.327		192.803	193.130
123+400		0.505	192.935	192.430
123+450		1.067	193.067	192.000
123+500		1.598	193.199	191.601
123+550		1.831	193.331	191.500
123+600		1.996	193.463	191.467
123+650		2.095	193.595	191.500
123+700		2.227	193.727	191.500
123+750		2.075	193.859	191.784
123+800		1.991	193.991	192.000
123+850		1.623	194.123	192.500
123+900		1.755	194.255	192.500
123+950		1.962	194.387	192.425
124+000		2.251	194.519	192.268
124+050		2.609	194.648	192.039
124+100		2.584	194.707	192.123
124+150		2.688	194.732	192.044
124+200		2.319	194.757	192.438
124+250		2.273	194.782	192.509
124+300		1.902	194.807	192.905
124+350		1.633	194.832	193.199
124+400		1.302	194.857	193.555
124+450		0.738	194.882	194.144
124+500	0.368		194.907	195.275
124+550	1.689		194.932	196.621
124+600	3.241		194.957	198.198
124+650	4.066		194.982	199.048
124+700	4.615		195.007	199.622
124+750	4.968		195.032	200.000
124+800	5.003		195.057	200.060
124+850	5.123		195.082	200.205
124+900	5.242		195.107	200.349
124+950	5.283		195.132	200.415
125+000	5.101		195.157	200.258
125+050	4.925		195.182	200.107
125+100	4.793		195.207	200.000
125+150	4.576		195.232	199.808
125+200	4.400		195.257	199.657
125+250	4.218		195.282	199.500
125+300	4.051		195.307	199.358
125+350	3.795		195.332	199.127
125+400	3.644		195.356	199.000
125+450	3.643		195.357	199.000
125+500	3.660		195.340	199.000
125+550	3.806		195.323	199.129
125+600	4.099		195.306	199.405
125+650	4.211		195.289	199.500
125+700	4.075		195.273	199.348
125+750	3.922		195.256	199.178
125+800	3.814		195.239	199.053
125+850	3.818		195.222	199.040
125+900	3.960		195.205	199.165
125+950	4.231		195.189	199.420
126+000	4.456		195.172	199.628

HORIZONTAL ALIGNMENT: R = 2000m | Tr= 80.00m | L = 3310.94m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-

- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
- PROPERTY BOUNDARY
- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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adani

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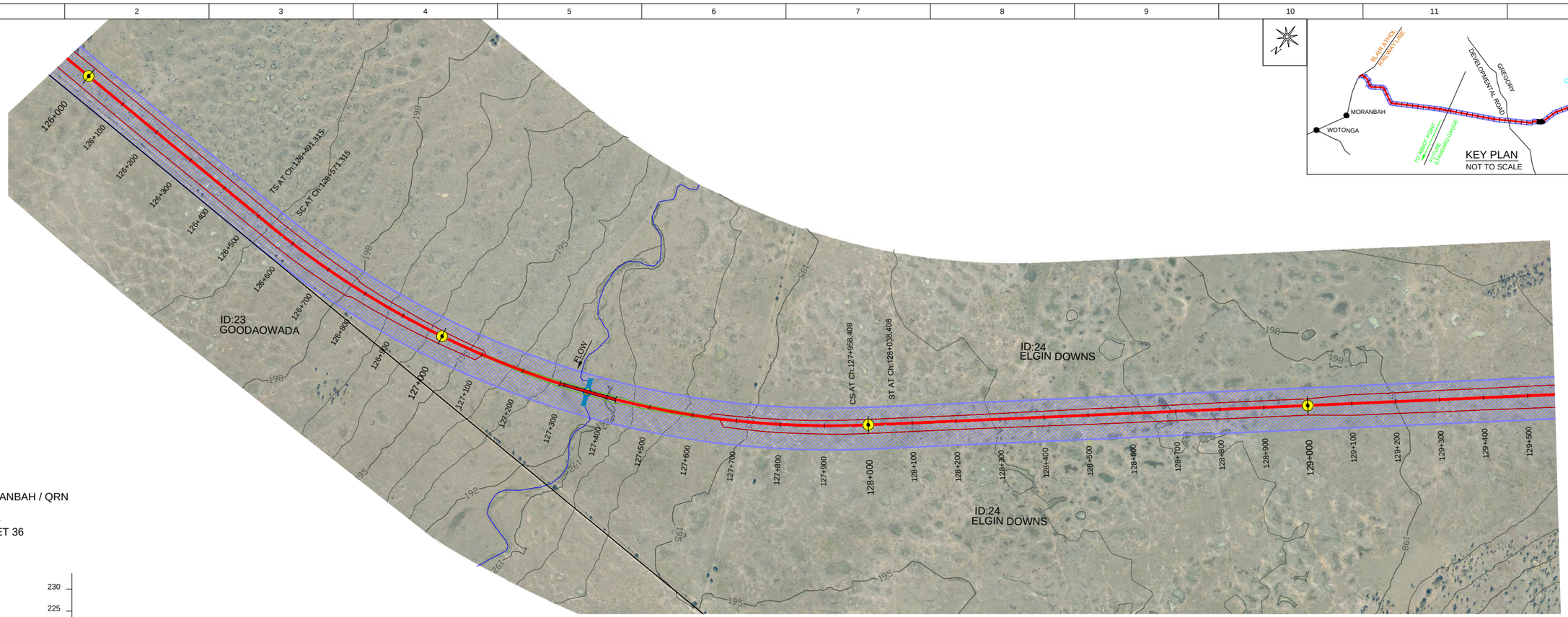
ORIGINAL SIZE A1

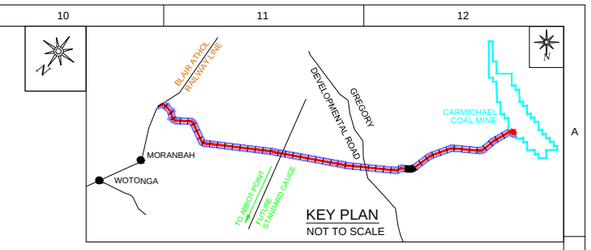
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 122.5 - CH 126.0 - SHEET 36

MASTER COPY

PROJECT No. CARP12033

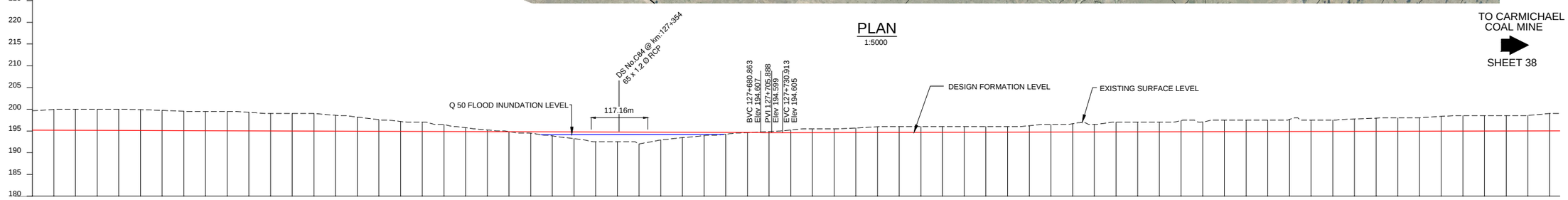
DRG No. CARP12033-1000-DWG-Y-136 REV 0





PLAN

1:5000



VERTICAL ALIGNMENT: 1:-2978 | K900 | 1:4538

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
126+000	4.456		195.172	199.628
126+050	4.779		195.155	199.934
126+100	4.862		195.138	200.000
126+150	4.879		195.121	200.000
126+200	4.895		195.105	200.000
126+250	4.809		195.088	199.897
126+300	4.650		195.071	199.721
126+350	4.461		195.054	199.515
126+400	4.462		195.038	199.500
126+450	4.479		195.021	199.500
126+500	4.285		195.004	199.289
126+550	4.013		194.987	199.000
126+600	4.030		194.970	199.000
126+650	4.046		194.954	199.000
126+700	3.656		194.937	198.593
126+750	3.254		194.920	198.174
126+800	2.677		194.903	197.580
126+850	2.290		194.886	197.176
126+900	2.130		194.870	197.000
126+950	1.607		194.853	196.460
127+000	0.889		194.836	195.725
127+050	0.391		194.819	195.210
127+100	0.040		194.802	194.842
127+150		0.309	194.786	194.477
127+200		0.913	194.769	193.856
127+250		1.528	194.752	193.224
127+300		2.235	194.735	192.500
127+350		2.219	194.719	192.500
127+400		2.702	194.702	192.000
127+450		1.779	194.685	192.906
127+500		1.210	194.668	193.458
127+550		0.729	194.651	193.922
127+600		0.380	194.635	194.255
127+650		0.018	194.618	194.600
127+700	0.243		194.603	194.846
127+750	0.598		194.609	195.207
127+800	0.880		194.620	195.500
127+850	0.869		194.631	195.500
127+900	1.030		194.642	195.672
127+950	1.304		194.653	195.957
128+000	1.336		194.664	196.000
128+050	1.325		194.675	196.000
128+100	1.314		194.686	196.000
128+150	1.303		194.697	196.000
128+200	1.292		194.708	196.000
128+250	1.281		194.719	196.000
128+300	1.471		194.730	196.201
128+350	1.759		194.741	196.500
128+400	1.917		194.752	196.669
128+450	1.737		194.763	196.500
128+500	2.226		194.774	197.000
128+550	2.215		194.785	197.000
128+600	2.204		194.796	197.000
128+650	2.547		194.807	197.354
128+700	2.228		194.818	197.046
128+750	2.671		194.829	197.500
128+800	2.660		194.840	197.500
128+850	2.649		194.851	197.500
128+900	2.771		194.862	197.633
128+950	2.627		194.873	197.500
129+000	2.616		194.884	197.500
129+050	2.851		194.895	197.746
129+100	3.035		194.906	197.941
129+150	3.083		194.917	198.000
129+200	3.083		194.928	198.011
129+250	3.424		194.939	198.363
129+300	3.550		194.950	198.500
129+350	3.539		194.961	198.500
129+400	3.528		194.972	198.500
129+450	3.561		194.983	198.544
129+500	4.006		194.994	199.000

HORIZONTAL ALIGNMENT: L = 3310.94m | Tr= 80.00m | R = -2000m | Tr= 80.00m | L = 9194.71m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-

- KILOMETRE POST
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- CUTTING TOE
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- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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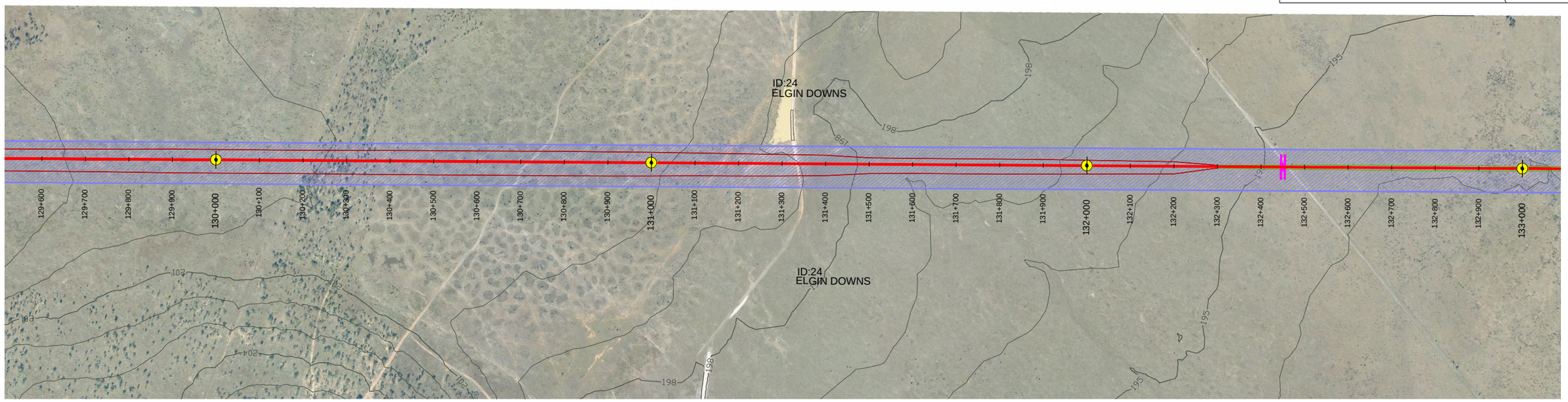
ORIGINAL SIZE A1

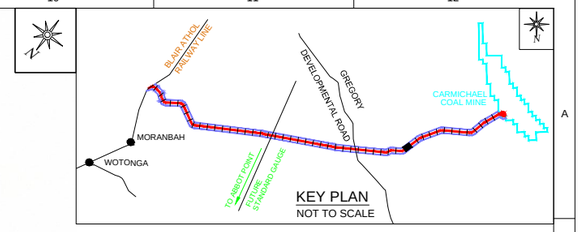
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 126.0 - CH129.50 - SHEET 37

MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-137 REV 0





MORANBAH / QRN

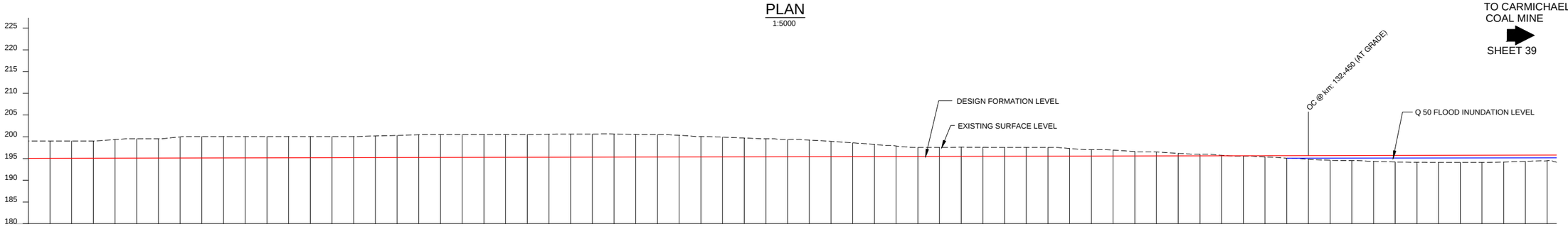
SHEET 37

PLAN

1:5000

TO CARMICHAEL COAL MINE

SHEET 39



VERTICAL ALIGNMENT: 1:4538

CHAINAGES	DEPTH OF CUTTING(-)	HEIGHT OF BANK(+)	FORMATION LEVELS	SURFACE LEVELS
129+500	4.006		194.994	199.000
129+550	3.995		195.005	199.000
129+600	3.984		195.016	199.000
129+650	3.973		195.027	199.000
129+700	4.297		195.038	199.335
129+750	4.451		195.049	199.500
129+800	4.440		195.060	199.500
129+850	4.874		195.072	199.946
129+900	4.917		195.083	200.000
129+950	4.906		195.094	200.000
130+000	4.895		195.105	200.000
130+050	4.884		195.116	200.000
130+100	4.873		195.127	200.000
130+150	4.862		195.138	200.000
130+200	4.851		195.149	200.000
130+250	4.853		195.160	200.013
130+300	4.996		195.171	200.167
130+350	5.094		195.182	200.276
130+400	5.262		195.193	200.455
130+450	5.296		195.204	200.500
130+500	5.285		195.215	200.500
130+550	5.274		195.226	200.500
130+600	5.263		195.237	200.500
130+650	5.252		195.248	200.500
130+700	5.307		195.259	200.566
130+750	5.340		195.270	200.610
130+800	5.350		195.281	200.631
130+850	5.340		195.292	200.632
130+900	5.213		195.303	200.516
130+950	5.186		195.314	200.500
131+000	4.986		195.325	200.311
131+050	4.664		195.336	200.000
131+100	4.544		195.347	199.891
131+150	4.335		195.358	199.693
131+200	4.131		195.369	199.500
131+250	3.958		195.380	199.338
131+300	3.815		195.391	199.206
131+350	3.519		195.402	198.921
131+400	3.170		195.413	198.583
131+450	2.783		195.424	198.207
131+500	2.437		195.435	197.872
131+550	2.054		195.446	197.500
131+600	2.043		195.457	197.500
131+650	2.122		195.468	197.590
131+700	2.056		195.479	197.535
131+750	2.010		195.490	197.500
131+800	1.999		195.501	197.500
131+850	1.988		195.512	197.500
131+900	1.753		195.523	197.276
131+950	1.466		195.534	197.000
132+000	1.357		195.545	196.902
132+050	1.000		195.556	196.556
132+100	0.921		195.567	196.488
132+150	0.591		195.578	196.169
132+200	0.411		195.589	196.000
132+250	0.122		195.600	195.722
132+300		0.111	195.611	195.500
132+350		0.284	195.622	195.338
132+400		0.596	195.633	195.037
132+450		0.861	195.644	194.783
132+500		1.087	195.655	194.568
132+550		1.166	195.666	194.500
132+600		1.346	195.677	194.331
132+650		1.506	195.689	194.183
132+700		1.586	195.700	194.114
132+750		1.643	195.711	194.068
132+800		1.648	195.722	194.074
132+850		1.673	195.733	194.060
132+900		1.577	195.744	194.167
132+950		1.415	195.755	194.340
133+000		1.316	195.766	194.450

HORIZONTAL ALIGNMENT: L = 9194.71m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

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REVISIONS

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PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	
NAME:	CHRIS WARNOCK	18/12/12
RPEQ No:	03423	

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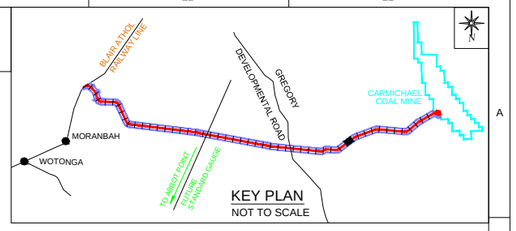
ORIGINAL SIZE A1

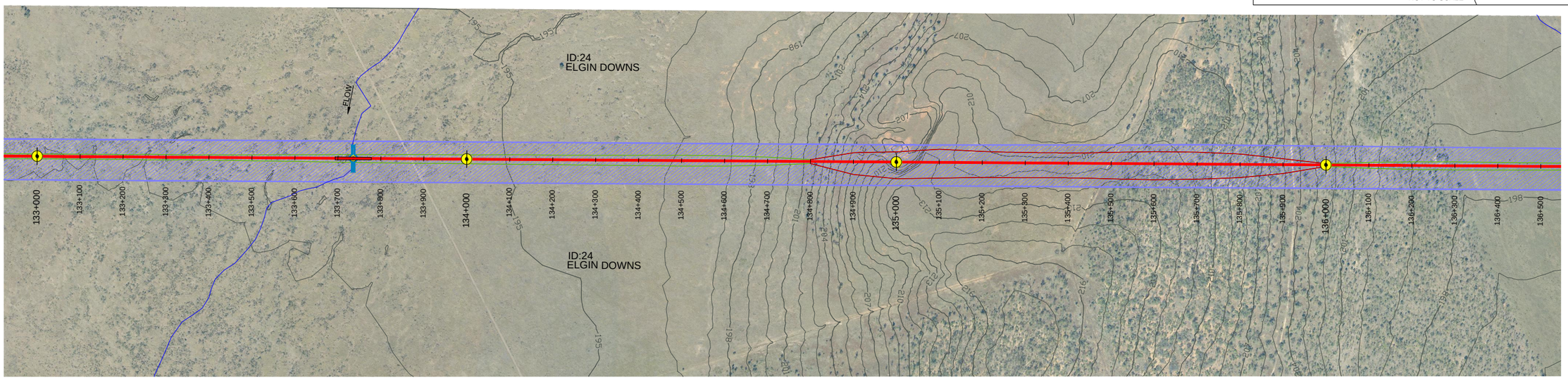
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 129.5 - CH133.0 - SHEET 38

MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-138 REV 0





MORANBAH / QRN

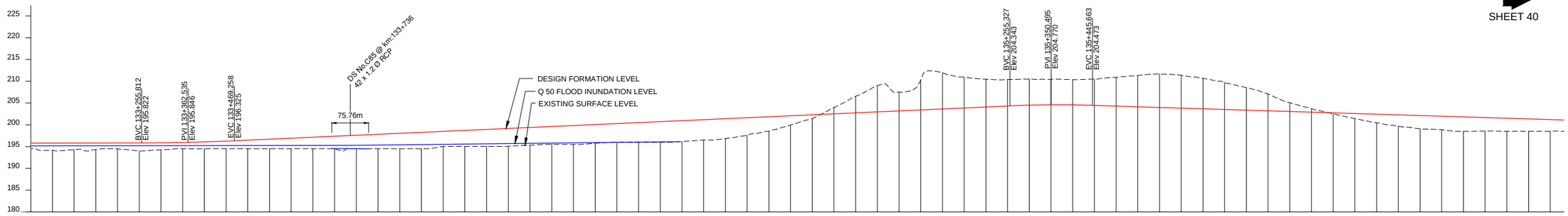
SHEET 38

PLAN

1:5000

TO CARMICHAEL COAL MINE

SHEET 40



VERTICAL ALIGNMENT: 1:4538 | K500 | 1:223 | K250 | 1:-320

DEPTH OF CUTTING(-): 1.449, 3.794, 6.021, 4.303, 6.889, 8.336, 7.080, 6.383, 6.078, 5.997, 5.873, 5.788, 6.041, 6.586, 7.198, 7.682, 7.553, 6.993, 6.190, 5.194, 3.879, 2.025, 0.803

HEIGHT OF BANK(+): 1.316, 1.660, 1.496, 1.483, 1.349, 1.821, 1.604, 1.431, 1.562, 1.742, 1.963, 2.187, 2.412, 2.636, 2.884, 3.085, 3.309, 3.534, 3.758, 3.483, 3.707, 3.932, 4.092, 4.068, 4.105, 4.330, 4.310, 4.279, 4.503, 4.727, 4.803, 4.676, 4.564, 3.986, 3.348, 2.138, 0.876, 0.219, 1.155, 1.968, 2.597, 3.058, 3.139, 3.304, 3.091, 2.991, 2.835, 2.666

FORMATION LEVELS: 195.766, 195.777, 195.788, 195.799, 195.810, 195.821, 195.851, 195.931, 196.062, 196.242, 196.463, 196.687, 196.912, 197.136, 197.360, 197.585, 197.809, 198.034, 198.258, 198.483, 198.707, 198.932, 199.156, 199.381, 199.605, 199.830, 200.054, 200.279, 200.503, 200.727, 200.952, 201.176, 201.401, 201.625, 201.850, 202.074, 202.299, 202.523, 202.748, 202.972, 203.197, 203.421, 203.645, 203.870, 204.094, 204.319, 204.503, 204.589, 204.574, 204.459, 204.303, 204.147, 203.990, 203.834, 203.678, 203.522, 203.366, 203.209, 203.053, 202.897, 202.741, 202.585, 202.428, 202.272, 202.116, 201.960, 201.804, 201.647, 201.491, 201.335, 201.179

SURFACE LEVELS: 194.450, 194.117, 194.292, 194.316, 194.461, 194.000, 194.247, 194.500, 194.500, 194.500, 194.500, 194.500, 194.500, 194.500, 194.476, 194.500, 194.500, 194.500, 194.500, 195.000, 195.000, 195.000, 195.064, 195.313, 195.500, 195.500, 195.744, 196.000, 196.000, 196.000, 196.149, 196.500, 196.837, 197.639, 198.502, 199.936, 201.423, 203.972, 206.542, 208.993, 207.500, 210.310, 211.981, 210.950, 210.477, 210.397, 210.500, 210.462, 210.362, 210.500, 210.889, 211.345, 211.672, 211.387, 210.671, 209.712, 208.560, 207.088, 205.078, 203.700, 202.522, 201.430, 200.460, 199.675, 199.058, 198.821, 198.500, 198.556, 198.500, 198.500, 198.513

HORIZONTAL ALIGNMENT: L = 9194.71m

CHAINAGES: 133+000, 133+050, 133+100, 133+150, 133+200, 133+250, 133+300, 133+350, 133+400, 133+450, 133+500, 133+550, 133+600, 133+650, 133+700, 133+750, 133+800, 133+850, 133+900, 133+950, 134+000, 134+050, 134+100, 134+150, 134+200, 134+250, 134+300, 134+350, 134+400, 134+450, 134+500, 134+550, 134+600, 134+650, 134+700, 134+750, 134+800, 134+850, 134+900, 134+950, 135+000, 135+050, 135+100, 135+150, 135+200, 135+250, 135+300, 135+350, 135+400, 135+450, 135+500, 135+550, 135+600, 135+650, 135+700, 135+750, 135+800, 135+850, 135+900, 135+950, 136+000, 136+050, 136+100, 136+150, 136+200, 136+250, 136+300, 136+350, 136+400, 136+450, 136+500

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-

- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
- PROPERTY BOUNDARY
- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
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adani

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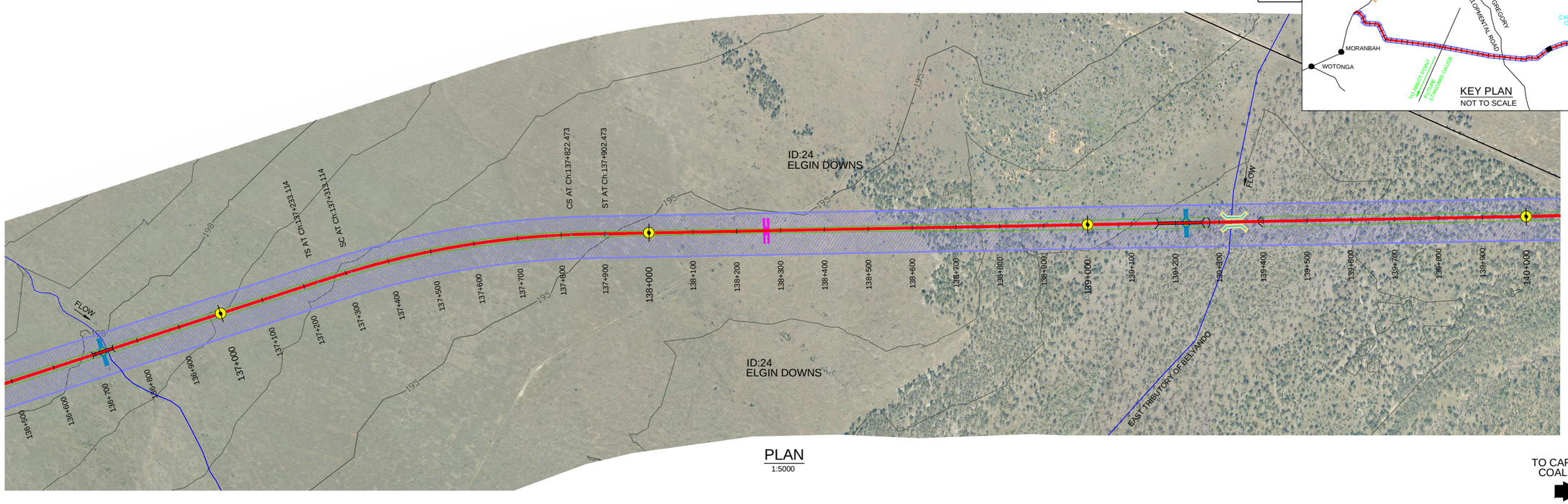
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 133.0 - CH 136.50 - SHEET 39

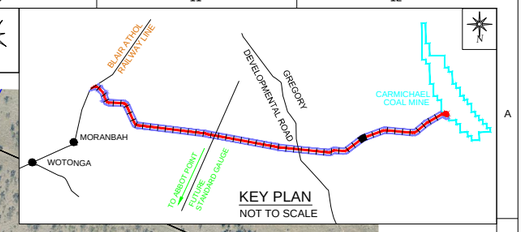
MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-139 REV 0



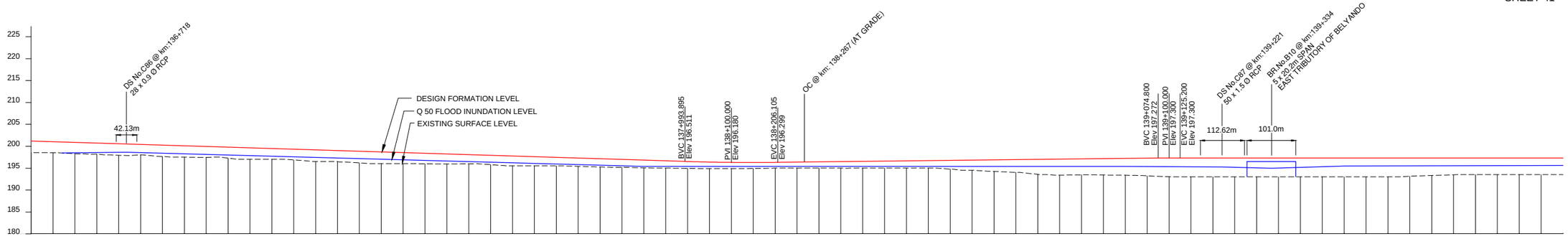
PLAN
1:5000



KEY PLAN
NOT TO SCALE

TO CARMICHAEL COAL MINE
SHEET 41

MORANBAH / QRN
SHEET 39

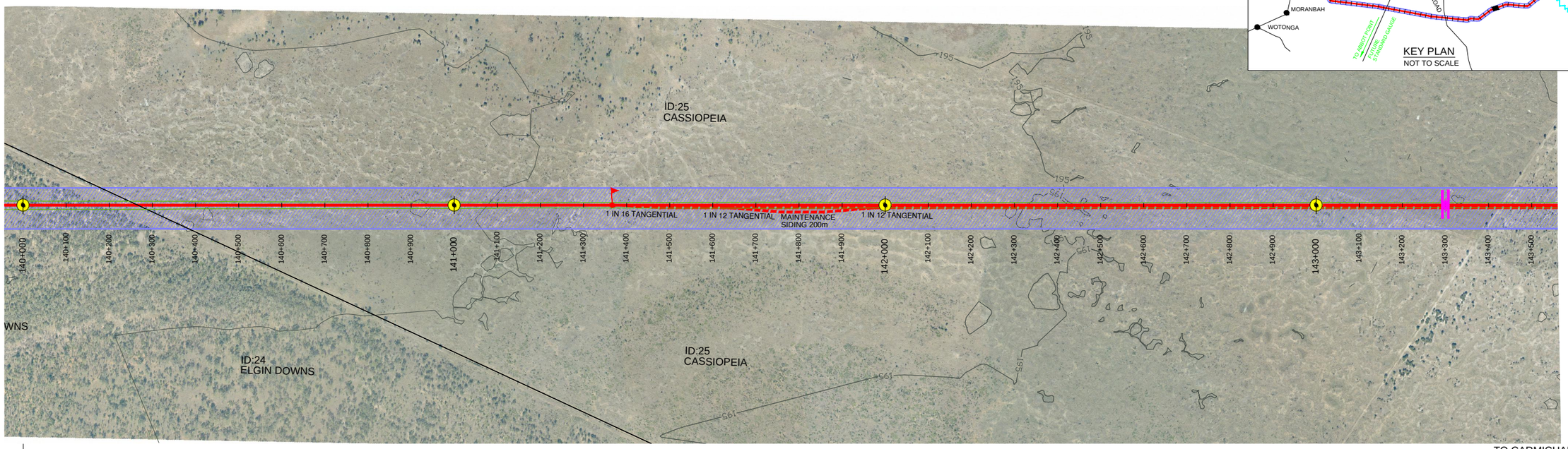


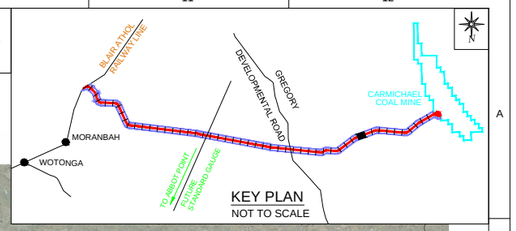
VERTICAL ALIGNMENT: 1:-320 | K500 | 1:893 | K450 | LEVEL

DEPTH OF CUTTING(-)

HEIGHT OF BANK(+): 2.666 2.523 2.601 2.549 2.652 2.398 2.604 2.585 2.487 2.513 2.617 2.460 2.461 2.648 2.510 2.665 2.679 2.523 2.403 2.280 2.084 2.126 2.242 2.086 1.930 1.885 1.869 1.790 1.755 1.649 1.575 1.506 1.419 1.373 1.308 1.348 1.404 1.484 1.516 1.572 1.628 1.684 1.971 2.296 2.629 2.908 3.399 3.629 3.632 3.722 3.828 4.023 4.270 4.300 4.300 4.300 4.300 4.300 4.300 4.300 4.300 4.300 4.300 4.158 3.983 3.839 3.800 3.800 3.800 3.800 3.800

FORMATION LEVELS: 201.179 201.023 200.866 200.710 200.554 200.398 200.241 200.085 199.929 199.773 199.617 199.460 199.304 199.148 198.992 198.836 198.679 198.523 198.367 198.211 198.055 197.898 197.742 197.586 197.430 197.273 197.117 196.961 196.805 196.649 196.493 196.368 196.293 196.267 196.292 196.348 196.404 196.460 196.516 196.572 196.628 196.684 196.740 196.796 196.852 196.908 196.964 197.020 197.076 197.132 197.188 197.244 197.293 197.300 197.300 197.300

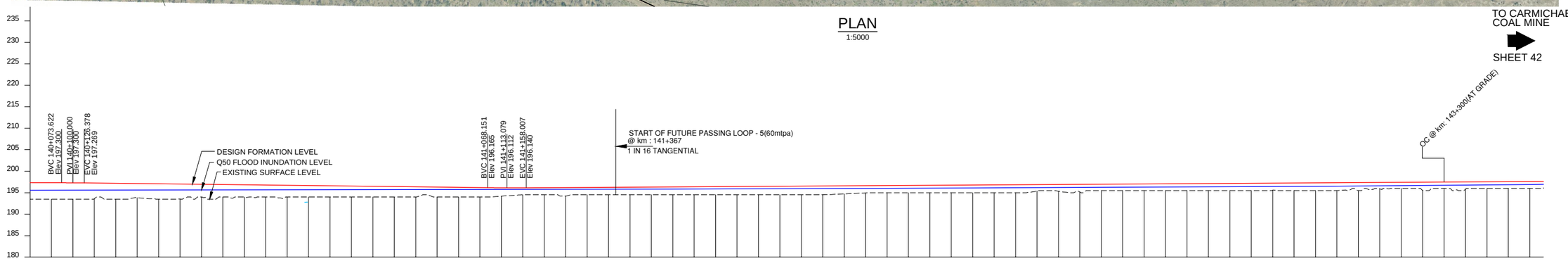




MORANBAH / QRN
SHEET 40

PLAN
1:5000

TO CARMICHAEL COAL MINE
SHEET 42



VERTICAL ALIGNMENT: LEVEL, K450, 1:-853, K500, 1:1601

CUTTING(-)

HEIGHT OF BANK(+): 3.800 3.800 3.792 3.655 3.683 3.273 3.566 3.479 2.948 2.890 2.891 2.772 2.714 2.655 2.597 2.538 2.479 2.421 2.362 2.304 2.245 2.186 1.949 1.642 1.667 1.979 1.729 1.760 1.792 1.823 1.854 1.885 1.917 1.948 1.979 2.010 2.041 2.048 1.881 1.692 1.666 1.698 1.729 1.760 1.791 1.823 1.854 1.467 1.566 1.770 1.479 1.510 1.541 1.573 1.604 1.635 1.666 1.698 1.664 1.760 1.791 1.822 1.854 1.494 1.416 1.935 1.479 1.700 1.541 1.572 1.604

FORMATION LEVELS: 197.300 197.300 197.292 197.241 197.183 197.124 197.066 197.007 196.948 196.890 196.831 196.772 196.714 196.655 196.597 196.538 196.479 196.421 196.362 196.304 196.245 196.186 196.138 196.136 196.167 196.198 196.229 196.260 196.292 196.323 196.354 196.385 196.417 196.448 196.479 196.510 196.541 196.573 196.604 196.635 196.666 196.698 196.729 196.760 196.791 196.823 196.854 196.885 196.916 196.948 196.979 197.010 197.041 197.073 197.104 197.135 197.166 197.198 197.229 197.260 197.291 197.322 197.354 197.385 197.416 197.447 197.479 197.510 197.541 197.572 197.604

SURFACE LEVELS: 193.500 193.500 193.500 193.586 193.500 193.851 193.500 193.528 194.000 194.000 193.940 194.000 194.000 194.000 194.000 194.000 194.000 194.000 194.000 194.000 194.000 194.189 194.494 194.500 194.219 194.500 194.500 194.500 194.500 194.500 194.500 194.500 194.500 194.500 194.500 194.500 194.525 194.723 194.943 195.000 195.000 195.000 195.000 195.000 195.000 195.000 195.418 195.350 195.178 195.500 195.500 195.500 195.500 195.500 195.500 195.500 195.500 195.565 195.500 195.500 195.500 195.500 195.891 196.000 195.512 196.000 195.810 196.000 196.000 196.000

HORIZONTAL ALIGNMENT: L = 9728.01m

CHAINAGES: 140+000 140+050 140+100 140+150 140+200 140+250 140+300 140+350 140+400 140+450 140+500 140+550 140+600 140+650 140+700 140+750 140+800 140+850 140+900 140+950 141+000 141+050 141+100 141+150 141+200 141+250 141+300 141+350 141+400 141+450 141+500 141+550 141+600 141+650 141+700 141+750 141+800 141+850 141+900 141+950 142+000 142+050 142+100 142+150 142+200 142+250 142+300 142+350 142+400 142+450 142+500 142+550 142+600 142+650 142+700 142+750 142+800 142+850 142+900 142+950 143+000 143+050 143+100 143+150 143+200 143+250 143+300 143+350 143+400 143+450 143+500

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE
HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres
VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
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- PROPOSED ALIGNMENT (OPTION-11 REV-2)
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- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
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- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
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adani™

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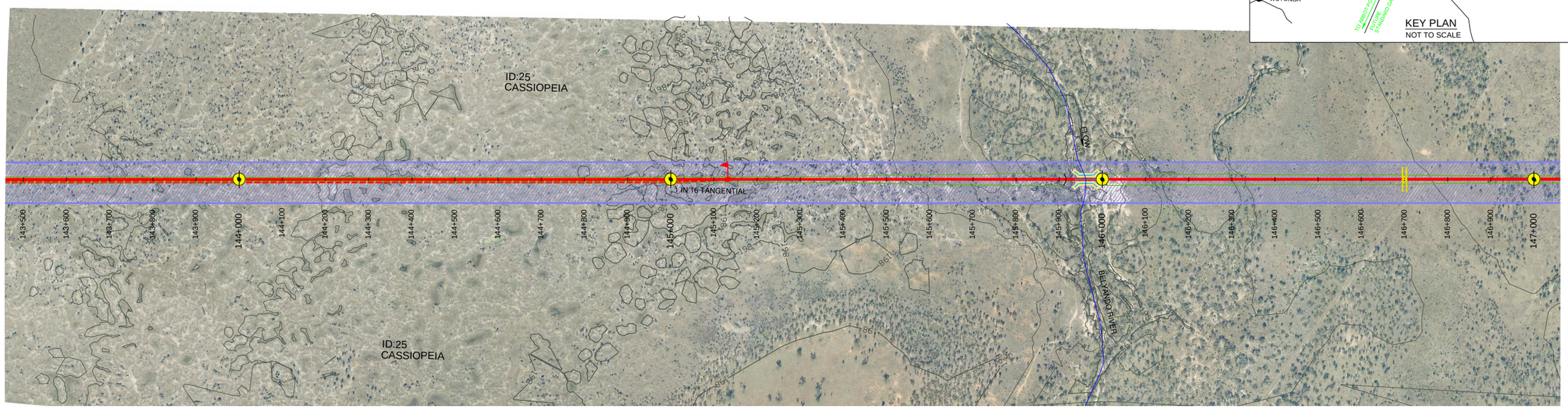
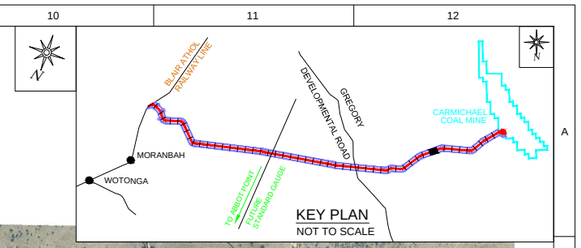
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 140.0 - CH 143.5 - SHEET 41

MASTER COPY

PROJECT No. CARP12033
DRG No. CARP12033-1000-DWG-Y-141
REV 0





MORANBAH/QRN

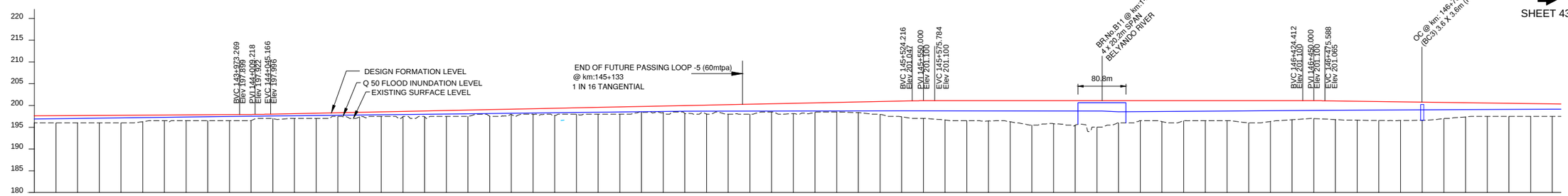
SHEET 41

PLAN

1:5000

TO CARMICHAEL COAL MINE

SHEET 43



VERTICAL ALIGNMENT: 1:1601 | K500 | 1:485 | K250 | LEVEL | K370 | 1:-723

DEPTH OF CUTTING(-)

HEIGHT OF BANK(+): 1.604 1.635 1.666 1.697 1.729 1.497 1.291 1.322 1.354 1.385 1.423 1.012 1.109 1.212 0.815 1.005 1.022 1.172 1.308 1.331 1.434 1.524 1.215 1.255 1.655 1.450 1.553 1.656 1.259 1.544 1.858 2.052 2.172 2.275 1.878 2.357 2.174 2.187 2.434 2.955 3.602 4.087 4.450 4.600 4.664 4.864 5.600 5.304 5.600 6.100 5.100 4.600 4.824 4.636 4.600 4.600 5.100 4.804 4.401 4.097 4.293 4.361 4.356 4.281 4.170 3.700 3.252 3.047 2.978 2.908 2.839

FORMATION LEVELS: 197.604 197.635 197.666 197.697 197.729 197.760 197.791 197.822 197.854 197.885 197.923 198.006 198.109 198.212 198.315 198.418 198.522 198.625 198.728 198.831 198.934 199.037 199.140 199.244 199.347 199.450 199.553 199.656 199.759 199.862 199.965 200.069 200.172 200.275 200.378 200.481 200.584 200.687 200.791 200.894 200.997 201.087 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.100 201.091 201.031 200.962 200.893 200.823 200.754 200.685 200.616 200.547 200.478 200.408 200.339

SURFACE LEVELS: 196.000 196.000 196.000 196.000 196.000 196.263 196.500 196.500 196.500 196.500 196.500 196.994 197.000 197.000 197.500 197.413 197.500 197.453 197.420 197.500 197.500 197.513 197.925 197.989 197.692 198.000 198.000 198.000 198.500 198.318 198.107 198.017 198.000 198.000 198.500 198.124 198.410 198.500 198.357 197.939 197.395 197.000 196.650 196.500 196.436 196.236 195.500 195.796 195.500 195.000 196.000 196.500 196.276 196.464 196.500 196.500 196.000 196.296 196.699 196.994 196.738 196.601 196.537 196.542 196.584 196.985 197.364 197.500 197.500 197.500 197.500

HORIZONTAL ALIGNMENT: L = 9728.01m

CHAINAGES: 143+500 143+550 143+600 143+650 143+700 143+750 143+800 143+850 143+900 143+950 144+000 144+050 144+100 144+150 144+200 144+250 144+300 144+350 144+400 144+450 144+500 144+550 144+600 144+650 144+700 144+750 144+800 144+850 144+900 144+950 145+000 145+050 145+100 145+150 145+200 145+250 145+300 145+350 145+400 145+450 145+500 145+550 145+600 145+650 145+700 145+750 145+800 145+850 145+900 145+950 146+000 146+050 146+100 146+150 146+200 146+250 146+300 146+350 146+400 146+450 146+500 146+550 146+600 146+650 146+700 146+750 146+800 146+850 146+900 146+950 147+000

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-

- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
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- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
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- RAILWAY CORRIDOR
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- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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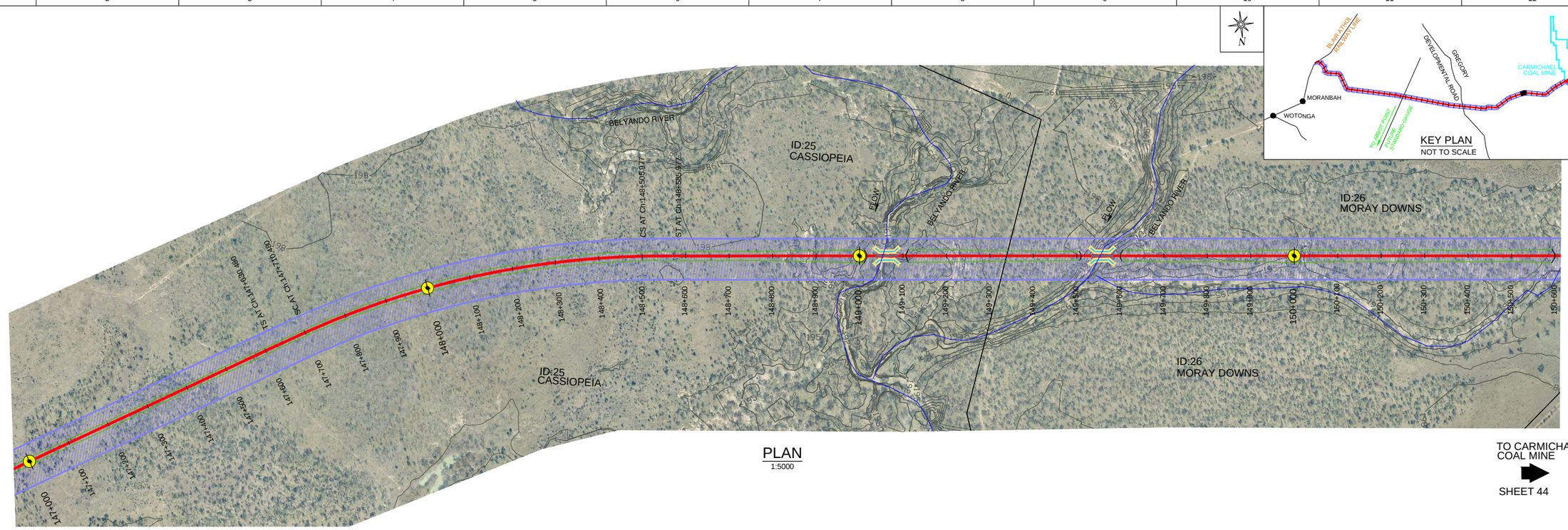
ORIGINAL SIZE A1

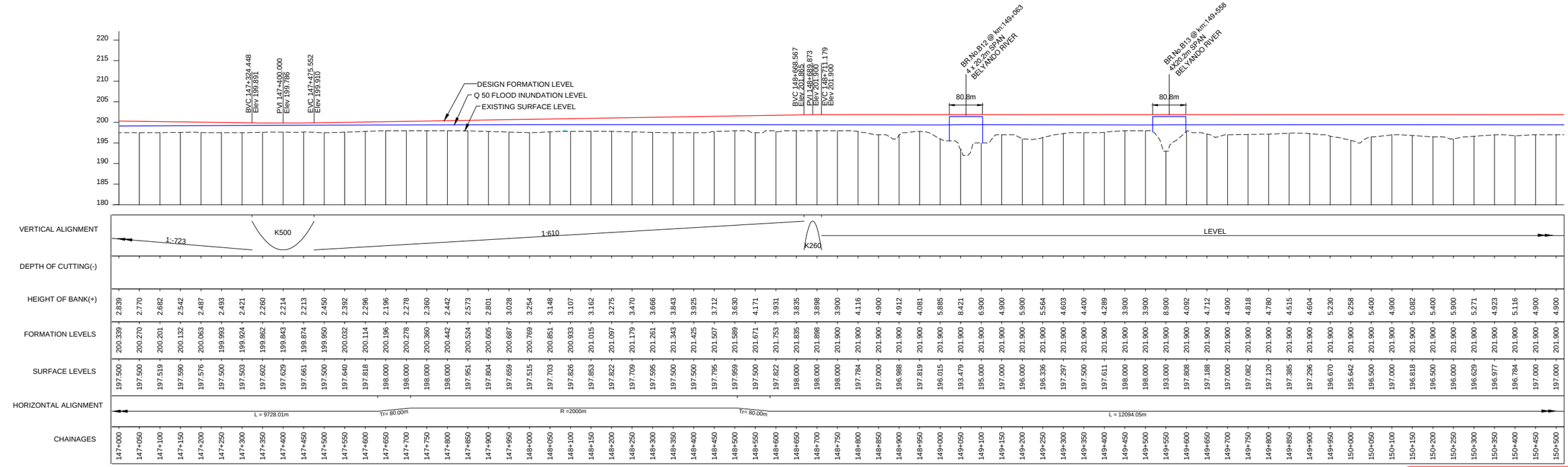
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 143.5 - CH 147.0 - SHEET 42

MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-142 REV 0





LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

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- EXISTING SERVICES

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DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
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RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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adani
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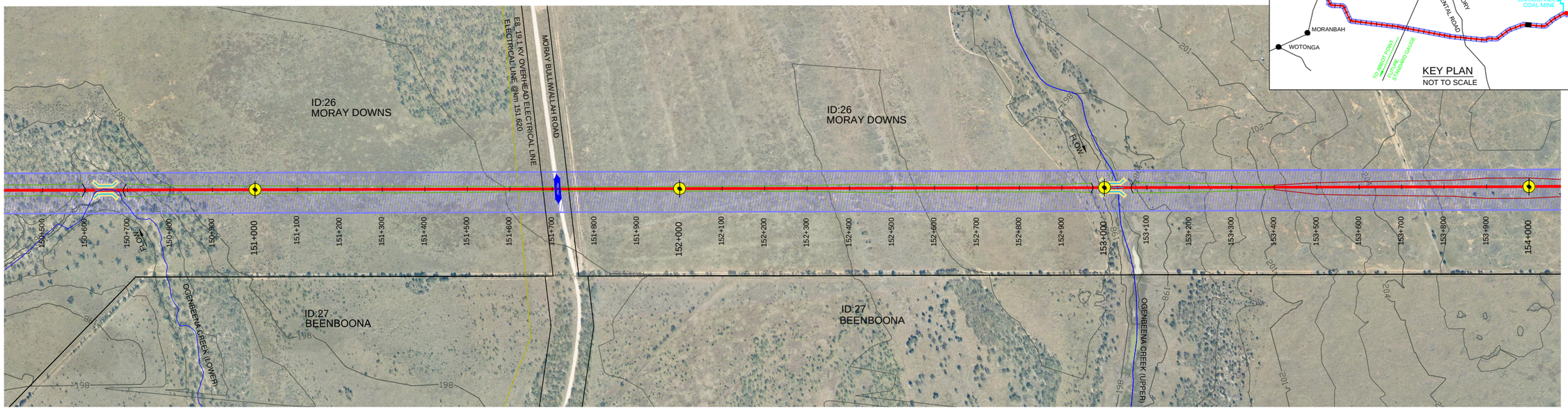
ORIGINAL SIZE A1

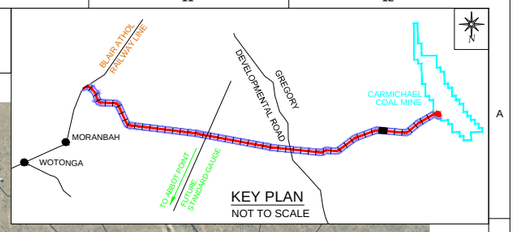
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - EARTHWORKS
PLAN AND PROFILE - CH 147.0 - CH 150.5 - SHEET 43

MASTER COPY

PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-143 REV 0





MORANBAH / QRN

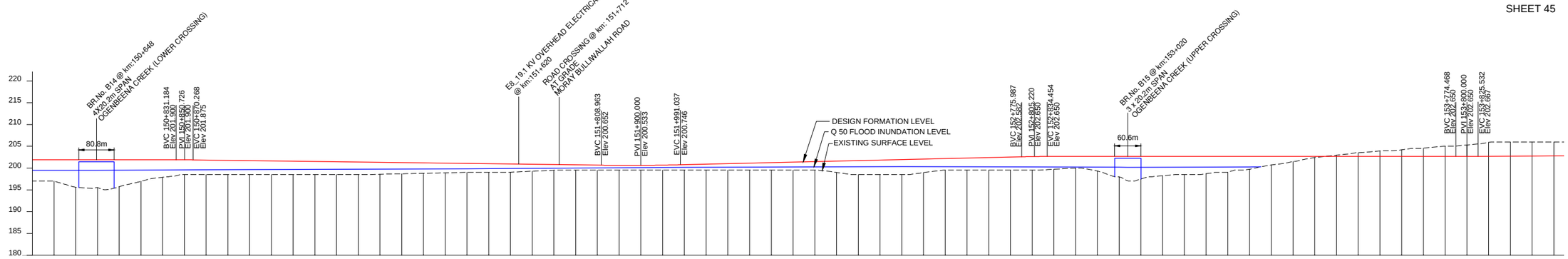
SHEET 43

PLAN

1:5000

TO CARMICHAEL COAL MINE

SHEET 45



VERTICAL ALIGNMENT: LEVEL | K300 | 1:-768 | K500 | 1:428 | K250 | LEVEL | K760 | 1:1488

Chainage	Depth of Cutting(-)	Height of Bank(+)	Formation Levels	Surface Levels
150+500		4.900	201.900	197.000
150+550		4.904	201.900	196.996
150+600		6.325	201.900	195.575
150+650		6.404	201.900	195.496
150+700		6.195	201.900	195.705
150+750		4.944	201.900	196.956
150+800		4.025	201.900	197.875
150+850		3.394	201.894	198.500
150+900		3.336	201.836	198.500
150+950		3.271	201.771	198.500
151+000		3.206	201.706	198.500
151+050		3.140	201.640	198.500
151+100		3.075	201.575	198.500
151+150		3.010	201.510	198.500
151+200		2.945	201.445	198.500
151+250		2.880	201.380	198.500
151+300		2.751	201.315	198.564
151+350		2.576	201.250	198.674
151+400		2.400	201.184	198.784
151+450		2.234	201.119	198.885
151+500		2.054	201.054	199.000
151+550		1.989	200.989	199.000
151+600		1.880	200.924	199.044
151+650		1.590	200.859	199.269
151+700		1.304	200.794	199.490
151+750		1.228	200.728	199.500
151+800		1.163	200.663	199.500
151+850		1.115	200.615	199.500
151+900		1.116	200.616	199.500
151+950		1.167	200.667	199.500
152+000		1.267	200.767	199.500
152+050		1.382	200.884	199.502
152+100		1.501	201.001	199.500
152+150		1.618	201.118	199.500
152+200		1.735	201.235	199.500
152+250		1.852	201.352	199.500
152+300		1.968	201.468	199.500
152+350		2.613	201.585	198.972
152+400		3.202	201.702	198.500
152+450		3.319	201.819	198.500
152+500		3.436	201.936	198.500
152+550		3.096	202.053	198.957
152+600		2.670	202.170	199.500
152+650		2.787	202.287	199.500
152+700		2.904	202.404	199.500
152+750		3.021	202.521	199.500
152+800		3.126	202.626	199.500
152+850		2.939	202.650	199.711
152+900		2.651	202.650	199.999
152+950		3.340	202.650	199.310
153+000		4.678	202.650	197.972
153+050		5.175	202.650	197.475
153+100		4.406	202.650	198.244
153+150		4.150	202.650	198.500
153+200		3.951	202.650	198.699
153+250		3.597	202.650	199.053
153+300		2.911	202.650	199.739
153+350		1.943	202.650	200.707
153+400		1.150	202.650	201.500
153+450		0.230	202.650	202.420
153+500	0.296		202.650	202.946
153+550	0.856		202.650	203.506
153+600	1.270		202.650	203.920
153+650	1.526		202.650	204.176
153+700	1.907		202.650	204.557
153+750	2.350		202.650	205.000
153+800	2.641		202.654	205.295
153+850	3.219		202.684	205.903
153+900	3.283		202.717	206.000
153+950	3.249		202.751	206.000
154+000	3.216		202.784	206.000

HORIZONTAL ALIGNMENT: L = 12094.05m

LONGITUDINAL PROFILE ALONG RAIL FORMATION CENTRE LINE

HORIZONTAL-1:5000, VERTICAL-1:500

HORIZONTAL 1:5000 — 0 50 100 150 200 Metres

VERTICAL 1:500 — 0 5 10 15 20 Metres

ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	VS	18/12/12	ISSUED FOR USE	CW	RB

LEGEND:-
- KILOMETRE POST
- START OF PASSING LOOP
- END OF PASSING LOOP
- PROPERTY BOUNDARY
- PROPOSED ALIGNMENT (OPTION-11 REV-2)
- EXISTING RAILWAY LINE
- OCCUPATIONAL CROSSING (OC) AT GRADE
- OCCUPATIONAL CROSSING (OC) UNDER PASS
- ROAD CROSSING (AT GRADE)
- ROAD CROSSING (RAIL OVER ROAD)
- ROAD CROSSING (ROAD OVER RAIL)
- DRAINAGE STRUCTURE (DS) (INDICATIVE ONLY)
- RAILWAY BRIDGE
- WATER COURSE
- RAILWAY CORRIDOR
- EMBANKMENT TOE
- CUTTING TOE
- STREAM DIVERSION
- FUTURE PIPE LINE
- EXISTING SERVICES

DRAWN	V SURESH	18/12/12
DRAFTING CHECK	A S SUBRAHMANYAM	18/12/12
ENG. APPROVED	AN KESKAR	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL SIGNED:	CHRIS WARNOCK	18/12/12
NAME:	CHRIS WARNOCK	
RPEQ No:	03423	

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PROJECT No. CARP12033

DRG No. CARP12033-1000-DWG-Y-144

REV 0