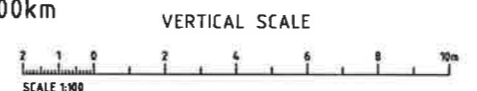
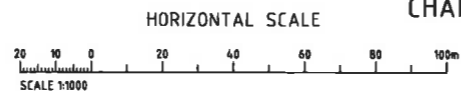


CHAINAGE	EXISTING LEVELS	FORMATION LEVELS	CUT/FILL DEPTH TO EXISTING GROUND	TOP OF RAIL LEVELS	CUT/FILL DEPTH TO FORMATION
0.000	6.924			7.719	0.794
25.000	6.783			7.536	0.853
50.000	6.790			7.554	0.764
75.000	6.777			7.467	0.690
100.000	6.697			7.306	0.609
125.000	6.371			7.108	0.737
150.000	6.190	6.318	0.128	7.018	0.700
167.216	6.070	6.430	0.360	7.130	0.700
175.000	6.048	6.491	0.443	7.193	0.702
200.000	6.074	6.692	0.618	7.393	0.701
208.786	5.801	6.765	0.964	7.463	0.698
225.000	5.502	6.902	1.400	7.599	0.697
227.401	5.478	6.926	1.448	7.623	0.697
250.000	5.278	7.160	1.882	7.849	0.689
268.971	5.073	7.338	2.265	8.039	0.701
275.000	5.018	7.399	2.381	8.099	0.700
300.000	4.818	7.648	2.830	8.349	0.701
325.000	4.554	7.898	3.344	8.599	0.701
346.575	4.385	8.113	3.728	8.815	0.702
350.000	4.351	8.148	3.797	8.849	0.701
371.525	4.164	8.365	4.201	9.065	0.700
375.000	4.144	8.400	4.256	9.099	0.699
400.000	4.026	8.654	4.628	9.349	0.695
425.000	3.908	8.909	5.001	9.599	0.690
450.000	3.294	9.163	5.869	9.849	0.686
475.000	1.088	9.417	8.329	10.099	0.682
500.000	2.185	9.671	7.486	10.349	0.678
525.000	3.662	9.925	6.263	10.599	0.674
550.000	3.578	10.165	6.587	10.840	0.675
575.000	3.724	10.378	6.604	11.007	0.679
600.000	3.418	10.403	6.985	11.089	0.686
625.000	3.643	10.389	6.746	11.085	0.696
650.000	4.321	10.304	5.983	11.004	0.700
675.000	4.479	10.211	5.732	10.912	0.701
700.000	4.615	10.118	5.503	10.819	0.701

LONGITUDINAL SECTION
 NCIG ARRIVAL ROAD No. 2
 CHAINAGE 0.000km TO 700.000km



- NOTES**
- ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
 - ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
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Rev.	Date	Revision Details	Drn	Ver.	App.
A3	27/04/12	UP KDOORAGANG BRANCH LINE ALIGNMENT REVISED	NS		
A2	17/01/12	VERIFICATION COMPLETE	NS		
A1	10/10/11	PRELIMINARY ISSUE	NS		

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Client:

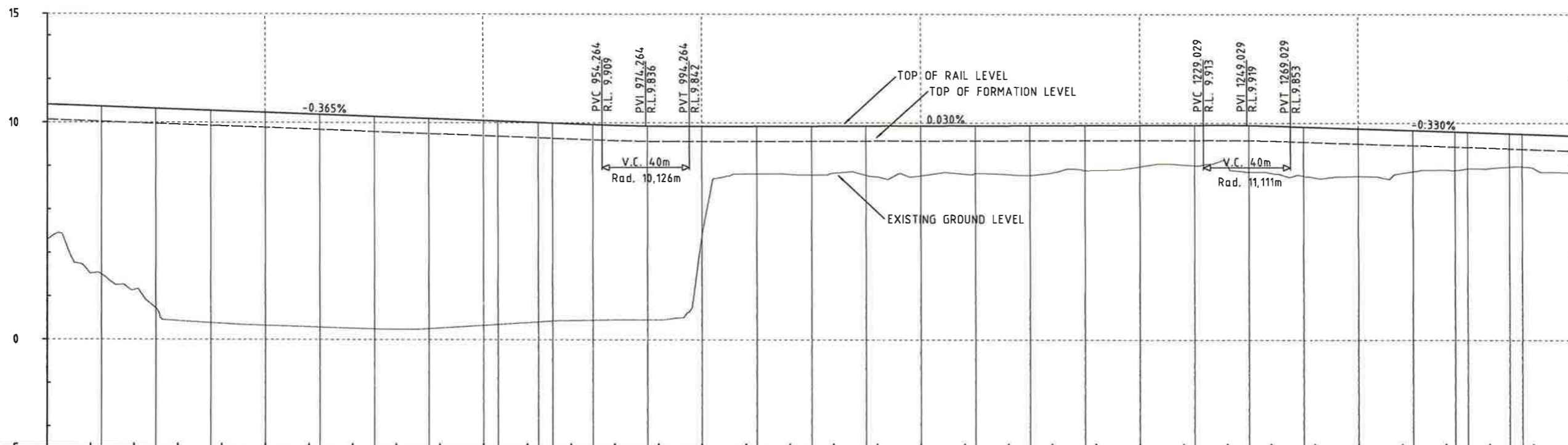
Newcastle Coal
 INFRASTRUCTURE GROUP

Drawn	Signed	Date
NS	Signed	
Designed	Signed	
NS	Signed	
Verified	Signed	
SM	Signed	
Approved	Signed	
DIB	Signed	

NCIG COAL EXPORT TERMINAL - STAGE 2F
 RAIL AREA
 NCIG ARRIVAL ROAD NO. 2
 LONGITUDINAL SECTION SHEET 1 OF 3

PRELIMINARY
 NOT FOR CONSTRUCTION

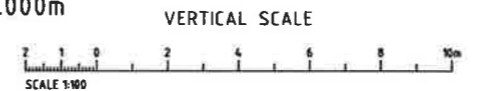
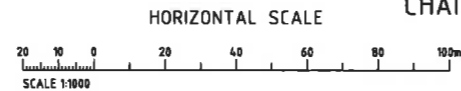
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 Sheet Size: A1
 Rev: A3



CHAINAGE	EXISTING LEVELS	FORMATION LEVELS	CUT/FILL DEPTH TO EXISTING GROUND	TOP OF RAIL LEVELS	CUT/FILL DEPTH TO FORMATION
700.000	4.582	10.138	5.556	10.838	0.700
725.000	3.002	10.046	7.044	10.746	0.700
750.000	1.446	9.955	8.509	10.655	0.700
775.000	0.771	9.864	9.093	10.564	0.700
800.000	0.649	9.773	9.124	10.473	0.700
825.000	0.567	9.681	9.114	10.381	0.700
850.000	0.488	9.590	9.102	10.290	0.700
875.000	0.506	9.499	8.993	10.199	0.700
900.000	0.657	9.408	8.751	10.108	0.700
906.588	0.699	9.383	8.684	10.083	0.700
925.000	0.818	9.316	8.498	10.016	0.700
931.588	0.861	9.292	8.431	9.992	0.700
950.000	0.902	9.225	8.323	9.925	0.700
975.000	0.913	9.155	8.242	9.855	0.700
1000.000	4.744	9.144	4.400	9.844	0.700
1025.000	7.654	9.152	1.498	9.852	0.700
1050.000	7.616	9.159	1.543	9.859	0.700
1075.000	7.591	9.167	1.576	9.867	0.700
1100.000	7.564	9.174	1.610	9.874	0.700
1125.000	7.689	9.182	1.493	9.882	0.700
1150.000	7.589	9.189	1.600	9.889	0.700
1175.000	7.819	9.197	1.378	9.897	0.700
1200.000	7.996	9.205	1.209	9.905	0.700
1225.000	8.052	9.212	1.160	9.912	0.700
1250.000	7.752	9.200	1.448	9.900	0.700
1275.000	7.566	9.134	1.568	9.834	0.700
1300.000	7.559	9.051	1.492	9.751	0.700
1325.000	7.764	8.969	1.205	9.669	0.700
1344.234	7.874	8.905	1.081	9.605	0.700
1350.000	7.906	8.886	0.980	9.566	0.700
1368.234	7.986	8.823	0.837	9.523	0.700
1375.000	7.999	8.804	0.805	9.504	0.700
1400.000	7.708	8.721	1.013	9.421	0.700

HORIZONTAL ALIGNMENT	R 320.000 Arc 535.223	L 25.000	Str. 412.645	L 25.000	R -435.500 Arc 335.102
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LONGITUDINAL SECTION
 NCIG ARRIVAL ROAD No. 3
 CHAINAGE 700.000m TO 1400.000m



NOTES

1. ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
2. ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
3. EXISTING SURVEY SOURCED FROM AVAILABLE PHOTOGRAMATRY DATA. SETOUT & GRADING TO BE CONFIRMED ON SITE AGAINST VERIFIED SURVEY.
4. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
5. ALL LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (AHD).
6. ALL LEVELS ARE MEASURED IN METRES UNLESS SHOWN OTHERWISE.

Rev.	Date	Revision Details	Drn	Ver.	App.
A2	17/01/12	VERIFICATION COMPLETE	NS		
A1	06/09/11	PRELIMINARY ISSUE	NS		



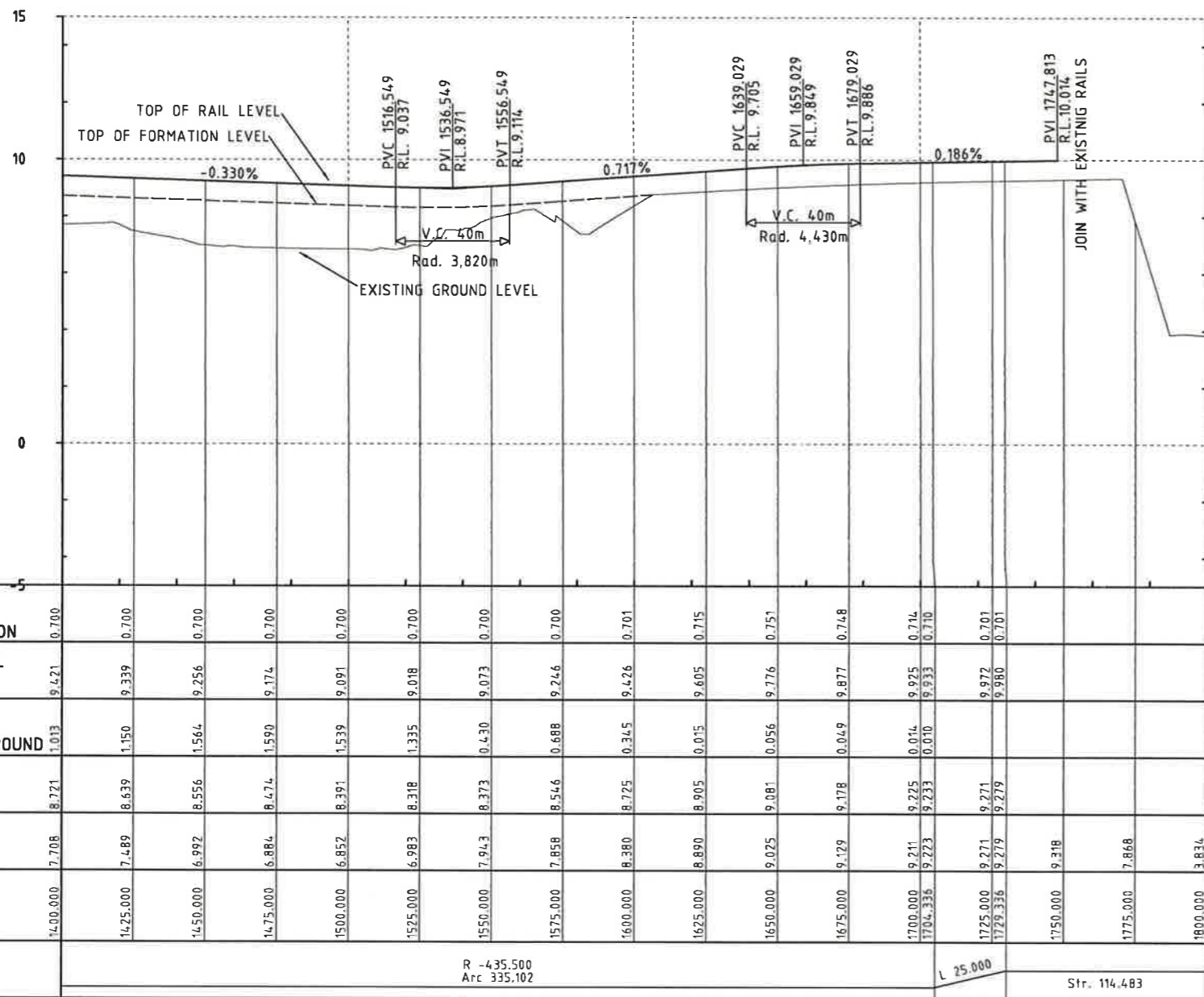
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NCIG COAL EXPORT TERMINAL - STAGE 2F
 RAIL AREA
 NCIG ARRIVAL ROAD NO. 3
 LONGITUDINAL SECTION SHEET 2 OF 3

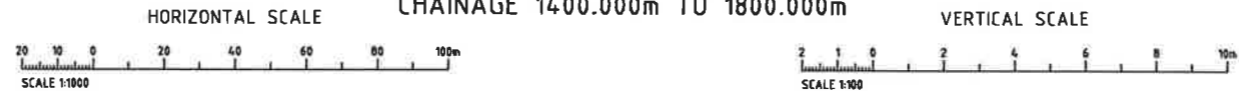
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Project No. H337400

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Drawing No.	HW03-01-R-82037	Rev.	A2



LONGITUDINAL SECTION
 NCIG ARRIVAL ROAD No. 3
 CHAINAGE 1400.000m TO 1800.000m



- NOTES**
- ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
 - ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
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Rev.	Date	Revision Details	Drn	Ver.	App.
A2	17/01/12	VERIFICATION COMPLETE		NS	
A1	06/09/11	PRELIMINARY ISSUE		NS	

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Client:

Newcastle Coal
 INFRASTRUCTURE GROUP

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Designed	Signed	Date
NS		
Verified	Signed	Date
SM		
Approved	Signed	Date
DIB		

NCIG COAL EXPORT TERMINAL - STAGE 2F
 RAIL AREA
 NCIG ARRIVAL ROAD NO. 3
 LONGITUDINAL SECTION SHEET 3 OF 3

PRELIMINARY
 NOT FOR CONSTRUCTION

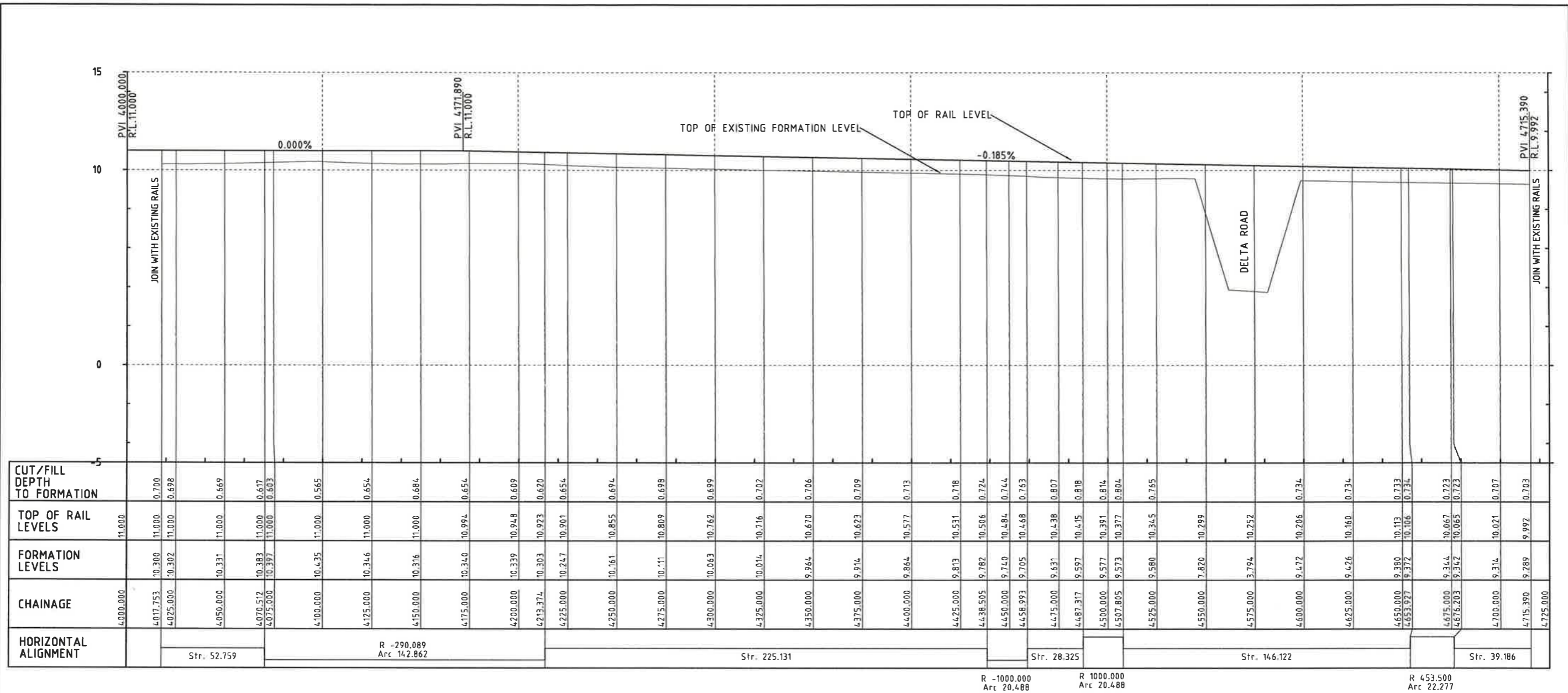
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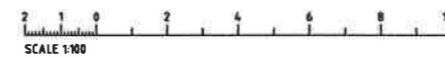
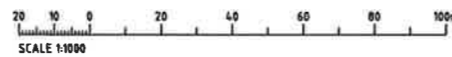
Rev. A2



LONGITUDINAL SECTION
 NCIG DEPARTURE ROAD No. 1
 CHAINAGE 4017.753m TO 4715.390m

NOTES

1. ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
2. ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
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Rev.	Date	Revision Details	Drn	Ver.	App.
A4	29/04/12	NCIG DEPARTURE ROADS ALIGNMENT REVISED	NS		
A3	17/01/12	VERIFICATION COMPLETE	NS		
A2	17/11/11	DRAFTING REVIEW COMMENTS INCORPORATED	NS		
A1	11/10/11	PRELIMINARY ISSUE	NS		

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 New South Wales 2089 Australia Email: NCHGStage2F@aureconhatch.com

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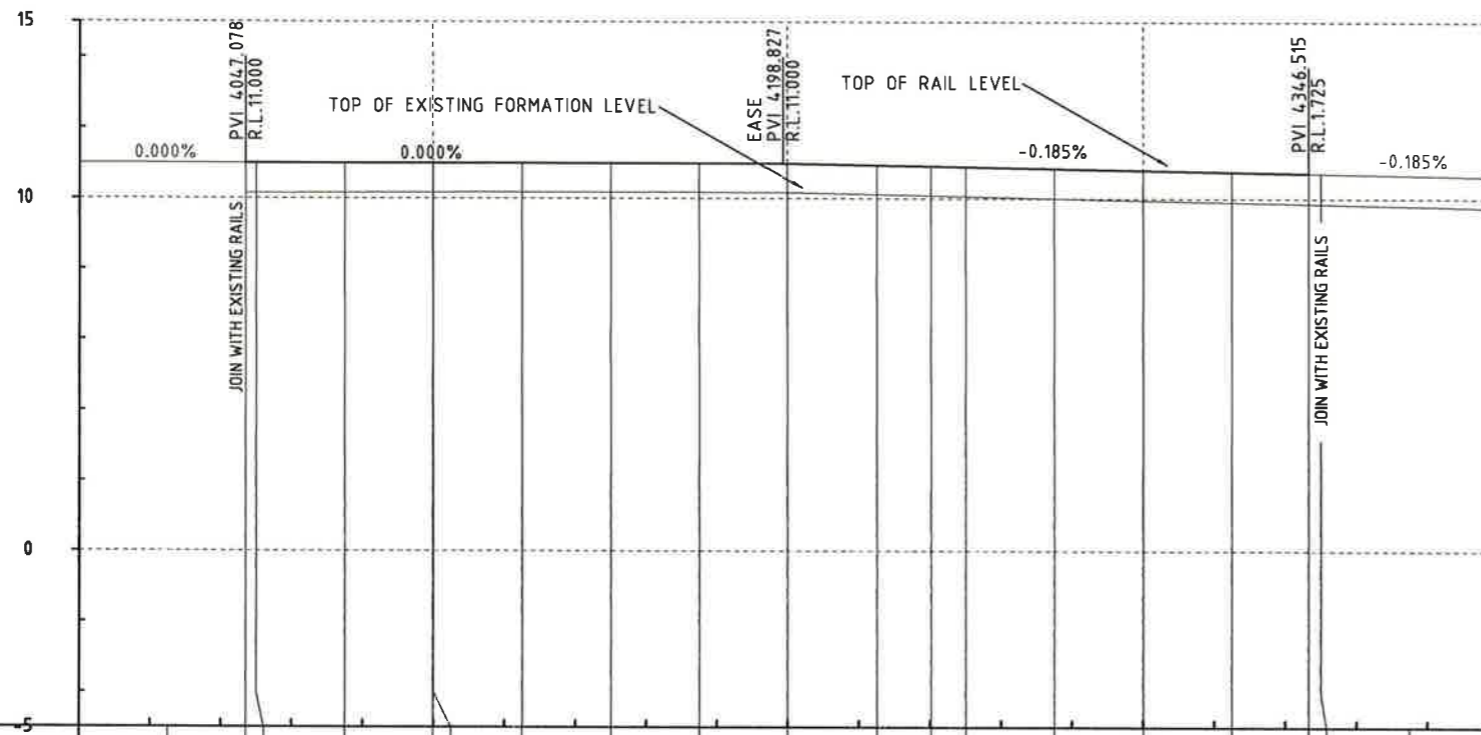
Newcastle Coal
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NS		
Designed	Signed	Date
NS		
Verified	Signed	Date
SM		
Approved	Signed	Date
DIB		

NCIG COAL EXPORT TERMINAL - STAGE 2F
 RAIL AREA
 NCIG DEPARTURE ROAD NO. 1
 LONGITUDINAL SECTION

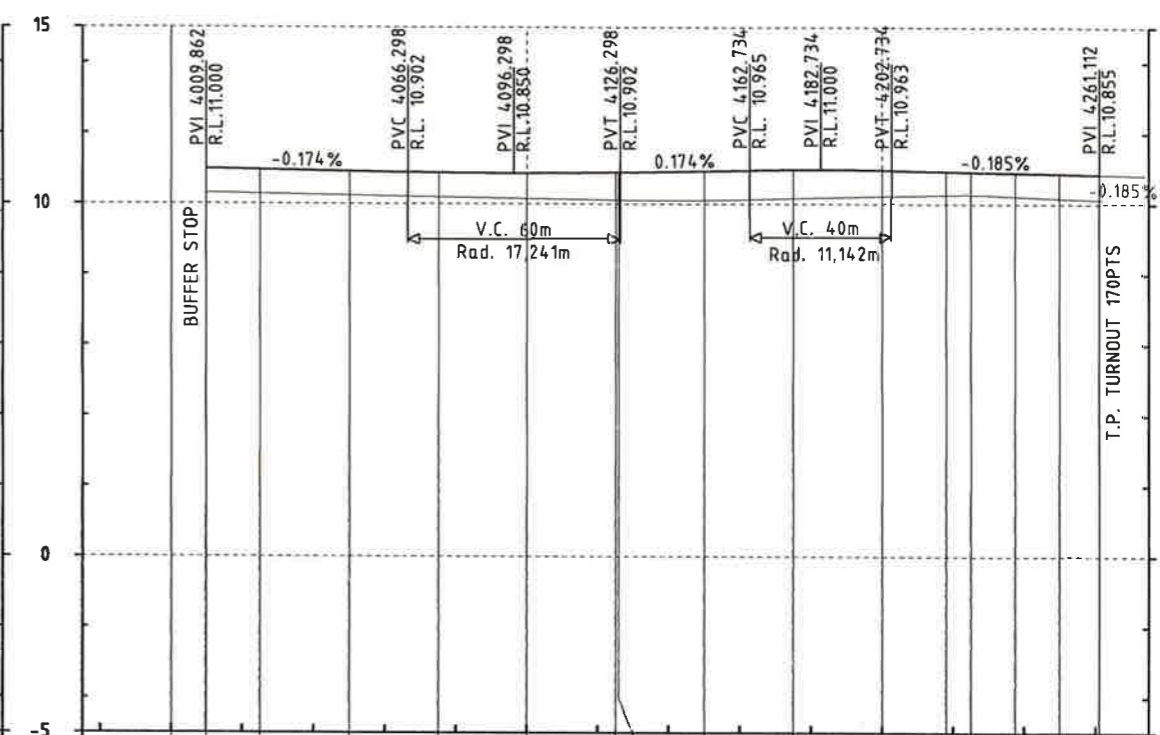
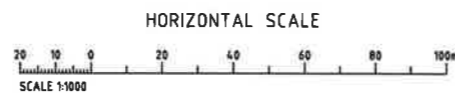
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 Rev. A4



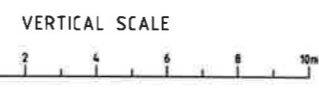
CUT/FILL DEPTH TO FORMATION	TOP OF RAIL LEVELS	FORMATION LEVELS	CHAINAGE	HORIZONTAL ALIGNMENT
0.953	11.000	10.167	4047.078	Str. 52.759
0.952	11.000	10.148	4050.000	
0.829	11.000	10.171	4075.000	R -285.000 Arc 140.356
0.768	11.000	10.232	4098.837	
0.768	11.000	10.232	4100.000	Str. 106.322
0.703	11.000	10.297	4125.000	
0.666	11.000	10.334	4150.000	Str. 106.322
0.657	11.000	10.343	4175.000	
0.680	10.998	10.318	4200.000	Str. 106.322
0.728	10.952	10.224	4225.000	
0.770	10.923	10.153	4240.192	Str. 106.322
0.799	10.905	10.106	4250.000	
0.845	10.859	10.014	4275.000	Str. 106.322
0.855	10.813	9.958	4300.000	
0.860	10.767	9.907	4325.000	Str. 106.322
0.862	10.725	9.863	4346.515	
			4350.000	Str. 106.322
			4375.000	
			4400.000	

LONGITUDINAL SECTION
NCIG DEPARTURE ROAD No. 2
CHAINAGE 4047.078m TO 4346.515m



CUT/FILL DEPTH TO FORMATION	TOP OF RAIL LEVELS	FORMATION LEVELS	CHAINAGE	HORIZONTAL ALIGNMENT
0.697	11.000	10.303	4009.862	Str. 115.988
0.689	10.974	10.285	4025.000	
0.690	10.930	10.240	4050.000	Str. 115.988
0.693	10.889	10.196	4075.000	
0.722	10.876	10.154	4100.000	R -250.000 Arc 92.215
0.787	10.900	10.113	4125.000	
0.790	10.901	10.111	4125.850	Str. 19.460
0.835	10.943	10.108	4150.000	
0.814	10.980	10.166	4175.000	Str. 19.460
0.745	10.968	10.223	4200.000	
0.671	10.935	10.264	4218.065	R 248.410 Arc 23.587
0.648	10.922	10.274	4225.000	
0.674	10.899	10.225	4237.525	R 248.410 Arc 23.587
0.708	10.876	10.168	4250.000	
			4261.112	R 248.410 Arc 23.587
			4275.000	

LONGITUDINAL SECTION
NCIG SIDING No. 1
CHAINAGE 4009.862m TO 4261.112m



NOTES

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Rev.	Date	Revision Details	Drn	Ver.	App.
A3	29/04/12	NCIG DEPARTURE ROADS ALIGNMENT REVISED	NS		
A2	17/01/12	VERIFICATION COMPLETE	NS		
A1	11/10/11	PRELIMINARY ISSUE	NS		

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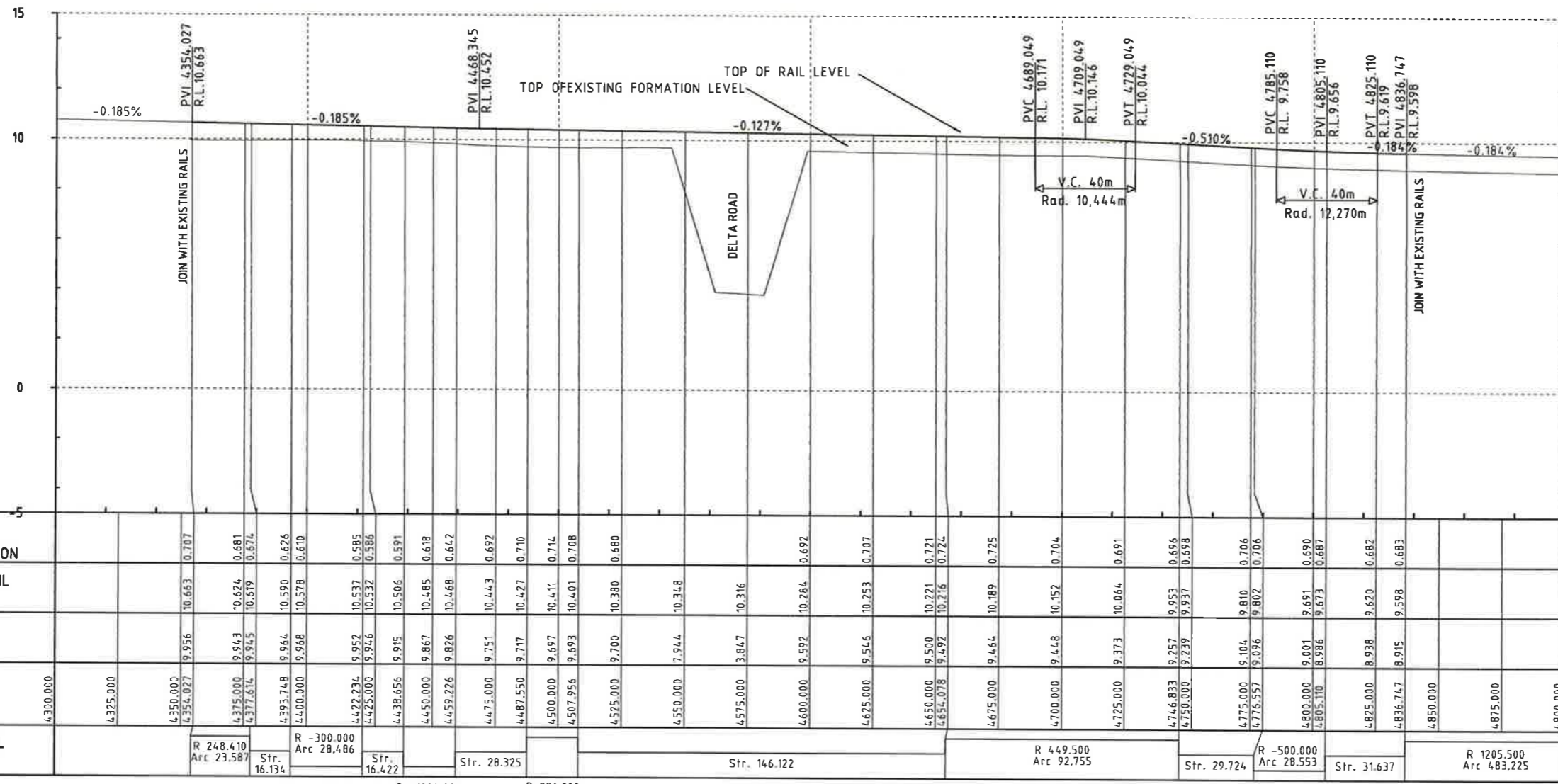
Client: **Newcastle Coal**
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Designed	Signed	Date
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Verified	Signed	Date
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Approved	Signed	Date
DIB		

NCIG COAL EXPORT TERMINAL - STAGE 2F
RAIL AREA
NCIG DEPARTURE ROAD NO. 2
LONGITUDINAL SECTION

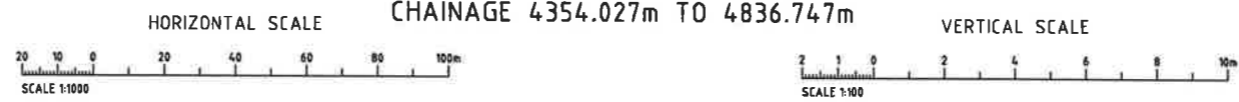
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Drawing No. HW03-01-R-82040
Sheet Size A1
Rev. A3



CUT/FILL DEPTH TO FORMATION	TOP OF RAIL LEVELS	FORMATION LEVELS	CHAINAGE	HORIZONTAL ALIGNMENT
			4300.000	
			4325.000	
			4350.000	
			4354.027	R 248.410 Arc 23.587
			4375.000	Str. 16.134
			4377.614	
			4393.748	
			4400.000	R -300.000 Arc 28.486
			4422.234	Str. 16.422
			4425.000	
			4438.656	
			4450.000	R -1004.000 Arc 20.570
			4459.226	Str. 28.325
			4475.000	
			4487.550	R 996.000 Arc 20.406
			4500.000	
			4507.956	
			4525.000	Str. 146.122
			4550.000	
			4575.000	
			4600.000	
			4625.000	
			4675.000	R 449.500 Arc 92.755
			4700.000	
			4725.000	Str. 29.724
			4746.833	
			4750.000	R -500.000 Arc 28.553
			4775.000	
			4776.557	Str. 31.637
			4800.000	
			4805.110	
			4825.000	
			4836.747	R 1205.500 Arc 483.225
			4850.000	
			4875.000	
			4900.000	

LONGITUDINAL SECTION
 NCIG DEPARTURE ROAD No. 3
 CHAINAGE 4354.027m TO 4836.747m



- NOTES**
- ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
 - ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
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Rev.	Date	Revision Details	Drn	Ver.	App.
A4	29/04/12	NCIG DEPARTURE ROADS ALIGNMENT REVISED	NS		
A3	17/01/12	VERIFICATION COMPLETE	NS		
A2	17/11/11	DRAFTING REVIEW COMMENTS INCORPORATED	NS		
A1	06/09/11	PRELIMINARY ISSUE	NS		

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Client:

Newcastle Coal
 INFRASTRUCTURE GROUP

Drawn	Signed	Date
NS		
Designed	Signed	Date
NS		
Verified	Signed	Date
SM		
Approved	Signed	Date
DIB		

NCIG COAL EXPORT TERMINAL - STAGE 2F
 RAIL AREA
 NCIG DEPARTURE ROAD NO. 3
 LONGITUDINAL SECTION SHEET 1 OF 2

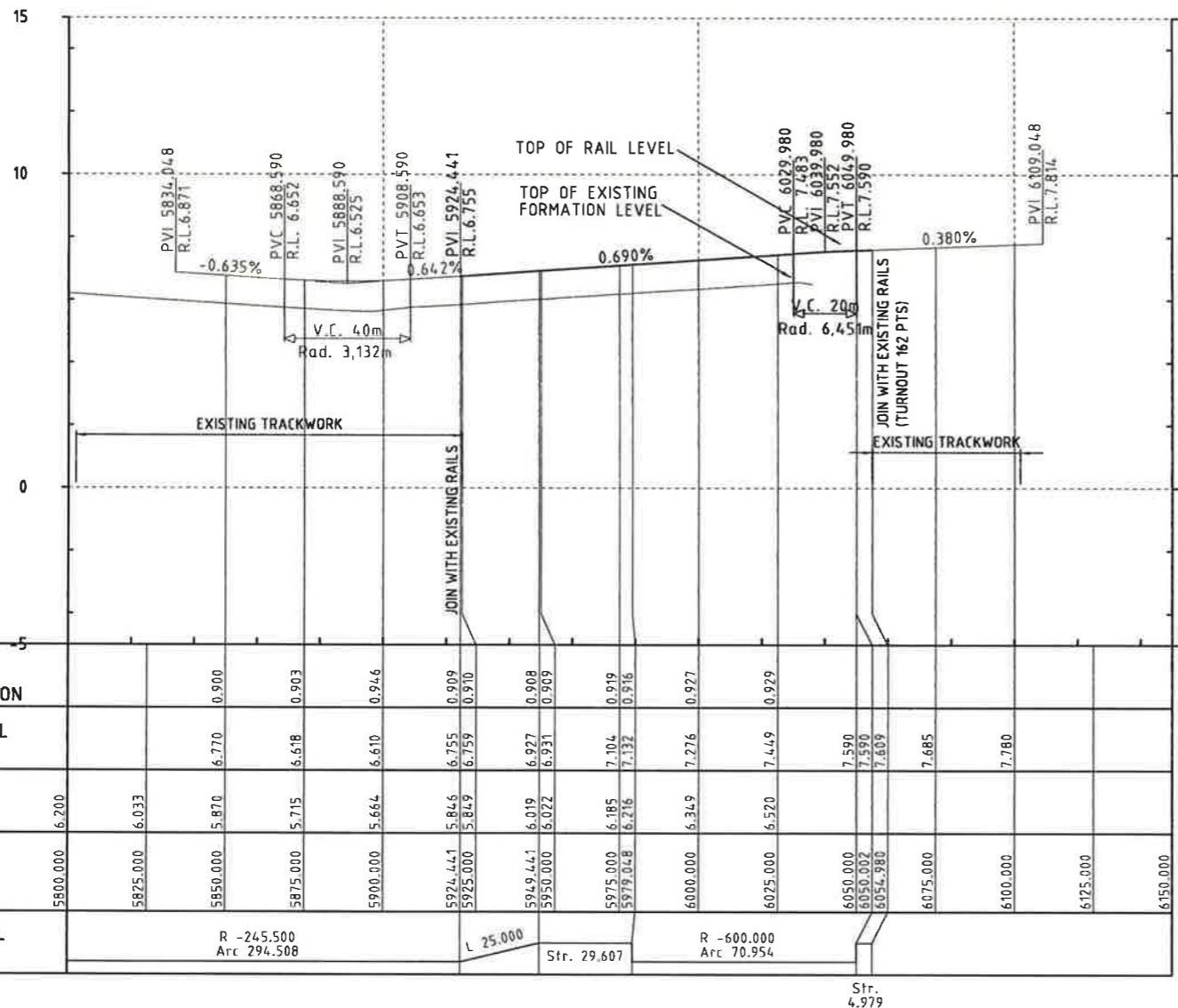
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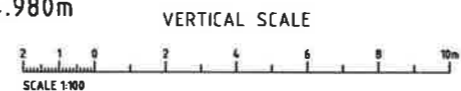
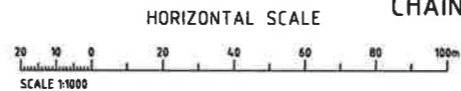
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Drawing No. HW03-01-R-82041

Sheet Size A1
 Rev. A4



LONGITUDINAL SECTION
 NCIG DEPARTURE ROAD No. 3
 CHAINAGE 5924.441m TO 6054.980m



- NOTES**
1. ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
 2. ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
 3. EXISTING SURVEY SOURCED FROM AVAILABLE PHOTOGRAMATRY DATA. SETOUT & GRADING TO BE CONFIRMED ON SITE AGAINST VERIFIED SURVEY.
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 5. ALL LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (AHD).
 6. ALL LEVELS ARE MEASURED IN METRES UNLESS SHOWN OTHERWISE.

Rev.	Date	Revision Details	Drn	Ver.	App.
A4	29/04/12	NCIG DEPARTURE ROADS LAYOUT REVISED	NS		
A3	17/01/12	VERIFICATION COMPLETE	NS		
A2	17/11/11	DRAFTING REVIEW COMMENTS INCORPORATED	NS		
A1	06/09/11	PRELIMINARY ISSUE	NS		

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Client:

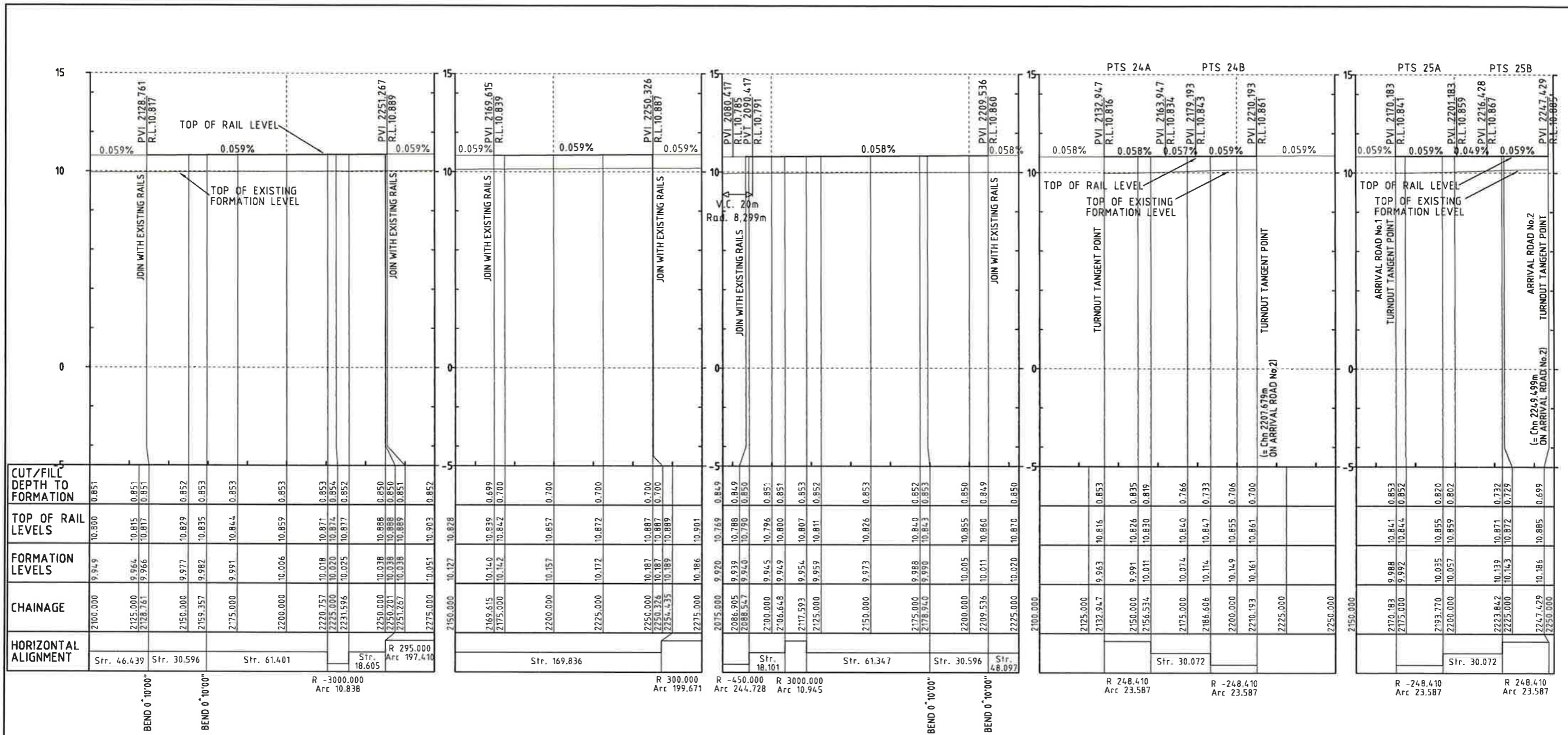
Newcastle Coal
 INFRASTRUCTURE GROUP

Drawn	Signed	Date
NS	Signed	Date
Designed	Signed	Date
NS	Signed	Date
Verified	Signed	Date
SM	Signed	Date
Approved	Signed	Date
DIB	Signed	Date

NCIG COAL EXPORT TERMINAL - STAGE 2F
 RAIL AREA
 NCIG DEPARTURE ROAD NO. 3
 LONGITUDINAL SECTION SHEET 2 OF 2

PRELIMINARY
 NOT FOR CONSTRUCTION

Project No. H337400
 Scale 1:100
 1:1000
 Drawing No. HW03-01-R-82042
 Sheet Size A1
 Rev. A4



LONGITUDINAL SECTION
NCIG ARRIVAL ROAD No. 1
CHAINAGE 2128.761m TO 2251.267m

LONGITUDINAL SECTION
NCIG ARRIVAL ROAD No. 2
CHAINAGE 2169.615m TO 2250.326m

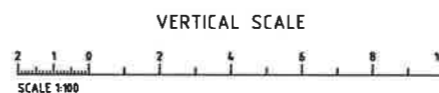
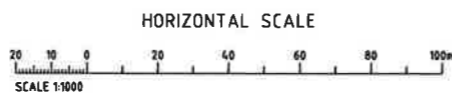
LONGITUDINAL SECTION
NCIG ARRIVAL ROAD No. 3
CHAINAGE 2086.905m TO 2209.536m

LONGITUDINAL SECTION
NCIG ARRIVAL ROADS
CROSSOVER PTS24
CHAINAGE 2132.947m TO 2210.193m

LONGITUDINAL SECTION
NCIG ARRIVAL ROADS
CROSSOVER PTS25
CHAINAGE 2170.183m TO 2247.429m

NOTES

1. ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
2. ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
3. EXISTING SURVEY SOURCED FROM AVAILABLE PHOTOGRAMATRY DATA. SETOUT & GRADING TO BE CONFIRMED ON SITE AGAINST VERIFIED SURVEY.
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Rev.	Date	Revision Details	Drn	Ver.	App.
A4	29/04/12	LONGITUDINAL SECTION LABELS AMENDED			NS
A3	17/01/12	VERIFICATION COMPLETE			NS
A2	17/11/11	DRAFTING REVIEW COMMENTS INCORPORATED			NDS
A1	12/10/11	PRELIMINARY ISSUE			NS

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SM		
Approved	Signed	Date
DIB		

NCIG COAL EXPORT TERMINAL - STAGE 2F
RAIL AREA
NCIG ARRIVAL ROADS - CROSSOVERS
LONGITUDINAL SECTIONS

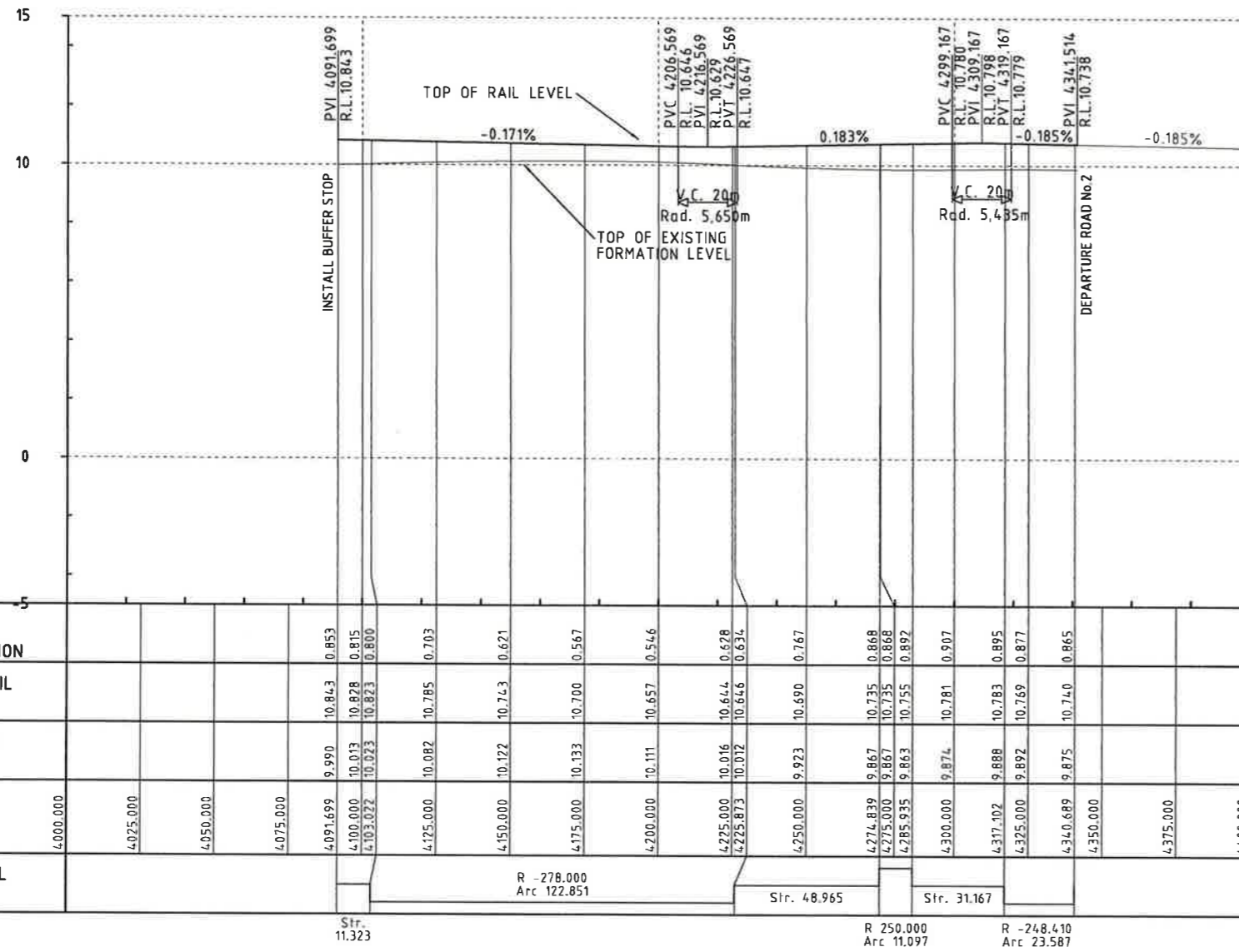
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Project No. H337400

Scale 1:100
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Drawing No. HW03-01-R-82043

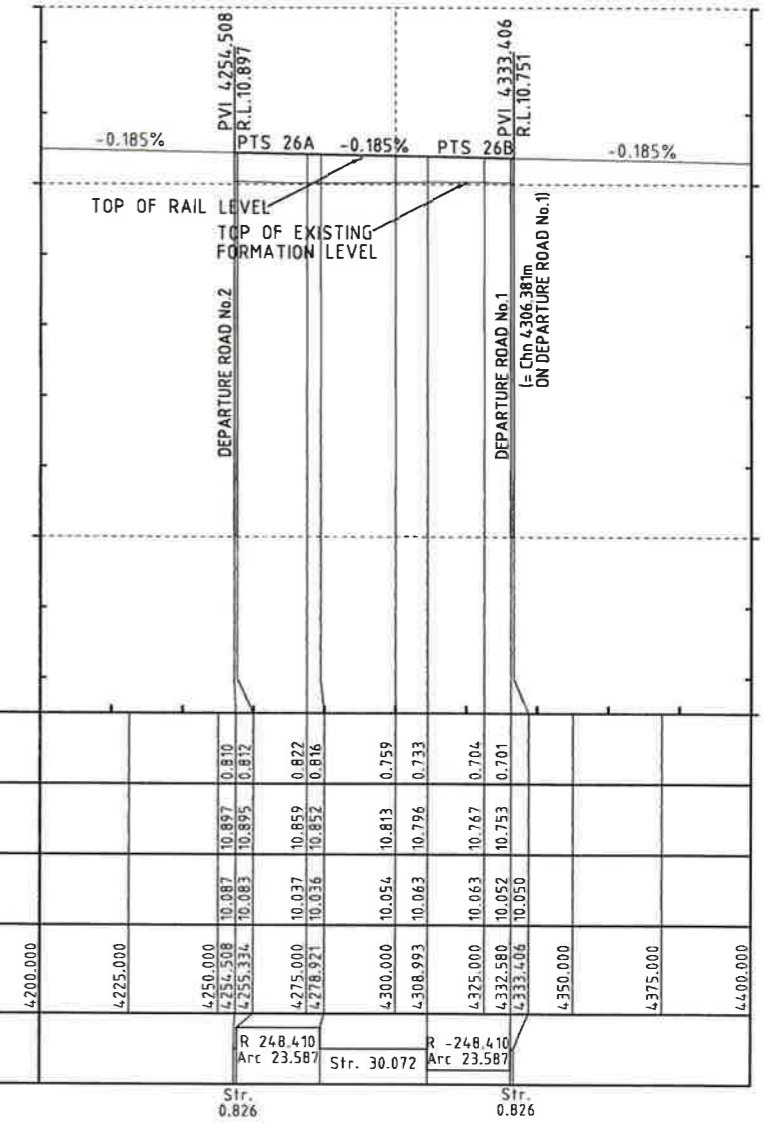
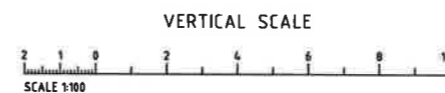
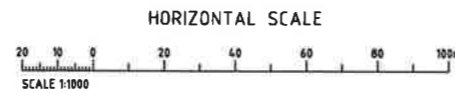
Sheet Size A1
Rev. A4



LONGITUDINAL SECTION
NCIG SIDING No. 2
CHAINAGE 4133.522m TO 4382.347m

NOTES

1. ALL TRACK WORK TO BE BUILT TO CLASS 1XC TO ARTC STANDARD TSD11.
2. ALL PROPOSED TRACKWORK DESIGNED TO ARTC STANDARD TDS10.
3. EXISTING SURVEY SOURCED FROM AVAILABLE PHOTOGRAMATRY DATA. SETOUT & GRADING TO BE CONFIRMED ON SITE AGAINST VERIFIED SURVEY.
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LONGITUDINAL SECTION
NCIG DEPARTURE ROADS - CROSSOVER PTS26
CHAINAGE 4296.993m TO 4374.239m

Rev.	Date	Revision Details	Drn	Ver.	App.
A3	30/04/12	NCIG DEPARTURE ROADS ALIGNMENT REVISED	NS		
A2	17/01/12	VERIFICATION COMPLETE	NS		
A1	12/10/11	PRELIMINARY ISSUE	NS		

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Designed	Signed	Date
NS		
Verified	Signed	Date
SM		
Approved	Signed	Date
DIB		

NCIG COAL EXPORT TERMINAL - STAGE 2F
RAIL AREA
NCIG DEPARTURE ROADS CROSSOVERS AND
CRIPPLE SIDING NO. 2
LONGITUDINAL SECTIONS

PRELIMINARY
NOT FOR CONSTRUCTION

Project No. H337400

Scale: 1:100
1:1000

Drawing No. HW03-01-R-82044

Sheet Size A1
Rev. A3