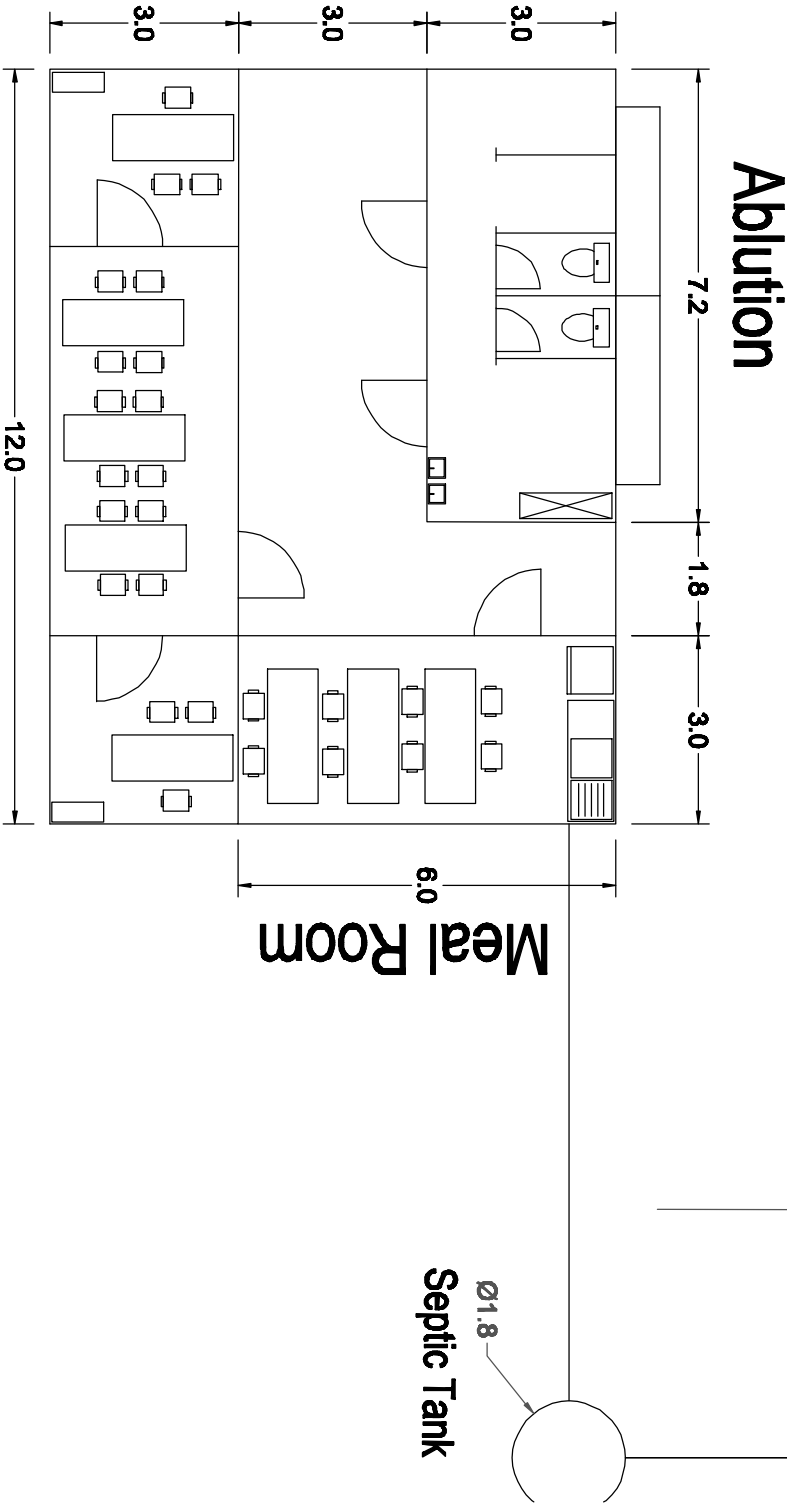




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Planning Pty Ltd ABN 61 001 995 929 6/1 Sutherland Street Sydney NSW 2147 Phone: 61 2 9411 1595 Fax: 61 2 9411 1596 Email: info@planning.com.au Website: www.planning.com.au		JLR McHAHON		"SUMMERDOWNS" RAIL TERMINAL NARRABOOMA, NSW		P9024		A3	
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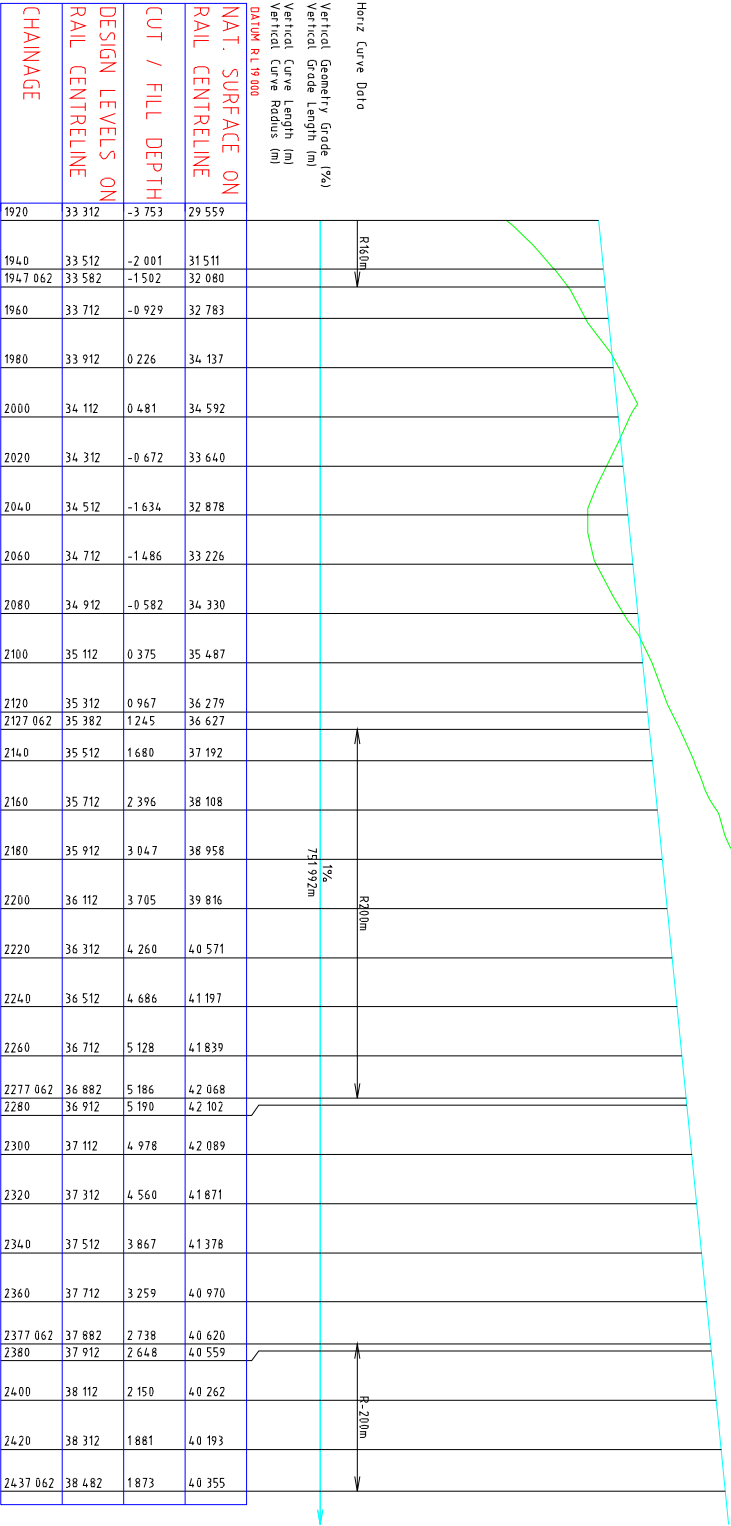
Vertical Geometry Data					
	Vertical Grade Length (%)	Vertical Curve Length (m)	Vertical Curve Radius (m)	DATUM RL 19 000	NAT. SURFACE ON RAIL CENTRELINE
CUT / FILL DEPTH	DESIGN LEVELS ON RAIL CENTRELINE	CHAINAGE			
0	30 207				
20	30 207				
40	30 207				
60	30 207				
80	30 207				
100	30 207				
120	30 207				
140	30 207				
160	30 207				
180	30 207				
200	30 207				
220	30 207				
240	30 207				
253.477	30 207				
260	30 207				
280	30 207				
283.477	30 207				
300	30 207				
320	30 207				
335.477	30 207				
340	30 207				
359.062	30 207	-0.171	30 036		
360	30 207	-0.164	30 043		
376.062	30 207	-0.045	30 162		
380	30 207	-0.023	30 184		
398.8	30 207	0.069	30 276		
400	30 206	0.078	30 285		
401.2	30 205	0.091	30 295		
420	30 167	0.332	30 499		
440	30 127	0.578	30 705		
452.062	30 103	0.760	30 862		
460	30 087	0.875	30 962		
480	30 047	1.130	31 177		
500	30 007	1.301	31 308		
520	29 967	1.459	31 426		
540	29 927	1.531	31 458		
560	29 887	1.483	31 370		
580	29 847	1.333	31 180		
600	29 807	1.131	30 938		
620	29 767	0.931	30 698		
640	29 727	0.645	30 372		
660	29 687	0.252	29 939		

NOTES: Total Cut: 460,000m³
Total Fill: 110,000m³

[illegible]

NAT. SURFACE ON RAIL CENTRELINE				Vertical Geometry Data			
CUT / FILL DEPTH	RAIL CENTRELINE	NAT. SURFACE ON RAIL CENTRELINE	Vertical Geometry Grade (%)	Vertical Curve Length (m)	Vertical Curve Radius (m)	Vertical Curve Radius (m)	Vertical Curve Radius (m)
CHAINAGE	RAIL CENTRELINE	NAT. SURFACE ON RAIL CENTRELINE	Vertical Geometry Grade (%)	Vertical Curve Length (m)	Vertical Curve Radius (m)	Vertical Curve Radius (m)	Vertical Curve Radius (m)
1280	29 005	-4 660	24 345				
1300	29 105	-4 756	24 349				
1320	29 205	-4 832	24 373				
1340	29 305	-4 933	24 372				
1360	29 405	-5 044	24 361				
1380	29 505	-5 147	24 358				
1400	29 605	-5 247	24 358				
1420	29 705						
1440	29 805						
1460	29 905	-5 541	24 364				
1480	30 005	-5 634	24 371				
1500	30 105	-5 727	24 378				
1520	30 205	-5 815	24 390				
1540	30 305	-5 889	24 416				
1560	30 405	-5 964	24 441				
1580	30 505						
1600	30 605	-6 121	24 484				
1620	30 705	-6 212	24 493				
1640	30 805	-6 262	24 543				
1660	30 905	-6 377	24 528				
1677 062	30 990	-6 482	24 508				
1680	31 005	-6 500	24 505				
1695 71	31 084						
1700	31 113						
1701 709	31 129						
1720	31 312						
1740	31 512						
1760	31 712						
1780	31 912						
1800	32 112						
1820	32 312						
1840	32 512						
1860	32 712	-7 198	25 514				
1880	32 912	-6 722	26 190				
1900	33 112	-5 235	27 877				
1920	33 312	-3 753	29 559				
1940	33 512	-2 001	31 511				

[illegible]



LONGITUDINAL SECTION Formation CL

Revision		Project		Drawing Title		Project No		Sheet Size	
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0		12/07/2018		12/07/2018		NAM - 018 d			
Rev		Date		Date		Drawing No.		NAM - 018 d	