



Chainage	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800	2+900	3+000	3+100	3+200	3+300	3+400	3+500	3+600	3+700	3+800	3+900	4+000	4+100	4+200	4+300	4+400	4+500	4+600	4+700	4+800	4+900	5+000	5+100	5+200	5+300	5+400	5+500	5+600	5+700	5+800	5+900	6+000	6+100	6+200	6+300	6+400																											
Horizontal Alignment	R=10000.0 L=144.8		L=193.4		R=4000.0 L=1507.3										L=325.0					L=698.4					L=200.0			R=8250.0 L=634.2					L=200.0			L=1378.3										L=425.0					R=3800.0 L=3324.9																																									
Vertical Alignment	L=558.8 R=4000.0		L=656.2 G=0.51%					L=283.5 R=26500.0					L=499.4 G=0.00%					L=400.3 R=26500.0					L=2190.1 G=1.51%										L=183.4 R=32000.0					L=1435.9 G=0.94%					L=979.6 R=32000.0																																																	
Existing Ground Level	38.2	38.3	39.8	39.8	39.8	39.1	41.1	38.3	44.4	42.2	40.7	41.5	42.3	42.8	45.3	49.1	52.2	55.2	55.2	48.7	48.9	50.1	57.6	63.6	69.7	74.0	77.3	78.7	76.8	70.9	69.9	72.9	78.2	82.2	84.0	87.3	91.1	92.9	92.4	91.9	94.0	94.0	93.9	95.4	96.8	93.9	90.4	89.3	92.6	97.8	103.9	112.4	114.9	116.8	119.8	124.4	130.1	133.2	130.0	122.5	117.8	116.5	114.4	111.4	111.3	108.1	104.7	103.8																								
Proposed Track Level	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	57.9	58.0	58.0	58.0	58.0	58.0	58.1	58.5	59.3	60.5	62.0	63.5	65.0	66.5	68.0	69.7	71.0	72.5	74.1	75.6	77.1	78.6	80.1	81.6	83.1	84.6	86.1	87.7	89.2	90.7	92.2	93.7	95.1	96.8	98.3	99.1	97.2	98.1	99.1	100.0	101.0	101.9	102.8	103.8	104.7	105.7	106.6	107.5	108.5	109.4	110.3	111.2	112.1	113.0	113.9	114.8	115.7	116.6	117.5	118.4	119.3	120.2	121.1	122.0	122.9	123.8	124.7	125.6	126.5	127.4	128.3	129.2	130.1	131.0	131.9	132.8	133.7	134.6	135.5	136.4	137.3	138.2	139.1	140.0
Cut and Fill	+15.8	+15.2	+15.2	+15.7	+16.9	+18.3	+15.9	+19.2	+13.5	+15.8	+17.3	+16.5	+15.7	+15.2	+12.7	+9.0	+6.3	+4.1	+11.8	+13.1	+13.4	+7.4	+2.9	-1.7	-4.5	-6.3	-6.2	-2.7	+4.7	+7.2	+5.7	+1.9	-0.6	-0.9	-2.7	-5.0	-5.2	-3.2	-1.2	-1.8	-1.7	-1.7	+2.4	+6.8	+8.8	+6.5	+2.2	-2.9	-10.5	-12.1	-13.0	-15.1	-18.7	-23.5	-25.7	-21.5	-13.1	-7.5	-5.6	-3.2	-0.2	-0.4	+2.2	+4.7	+4.3																											
Maximum Speed:	275km/h															300km/h																																																																												

Profile  
Scale H 1:10000 V 1:1000 @ A1

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**Key Environmental Features Legend**

- World Heritage Site
- Ramsar
- Special Areas of Conservation
- Special Protection Areas
- SSSI
- National Nature Reserve
- Area of Outstanding Natural Beauty
- National Park
- Scheduled Monument
- Registered Parks and Gardens
- Historical Battlefields
- Active and/or Authorised Landfill
- Historic Landfill
- Flood Risk Zones

**Legend**

- Alignment Centreline
- Viaduct / Tunnel / Retained Structure
- Major Contour
- Minor Contour
- Node
- Railway Cutting
- Railway Embankment
- Highway Cutting
- Highway Embankment

3.0	- /12/12	LK	MP	CL
2.0	- /12/12	LK	MP	CL
Issue	Date	By	Chkd	Appd



Client  
Job Title  
HS2 West Midlands to Leeds  
Initial Preferred Route  
December 2012  
Scale at A1  
1:10000  
Discipline  
Rail



Drawing Title  
Route HSL13  
Plan and Profile  
Sheet 1 of 7  
Drawing Status  
Issue No  
214866-00  
Drawing No  
HS2-ARP-LR0-DR-RT-55131  
Issue  
3.0