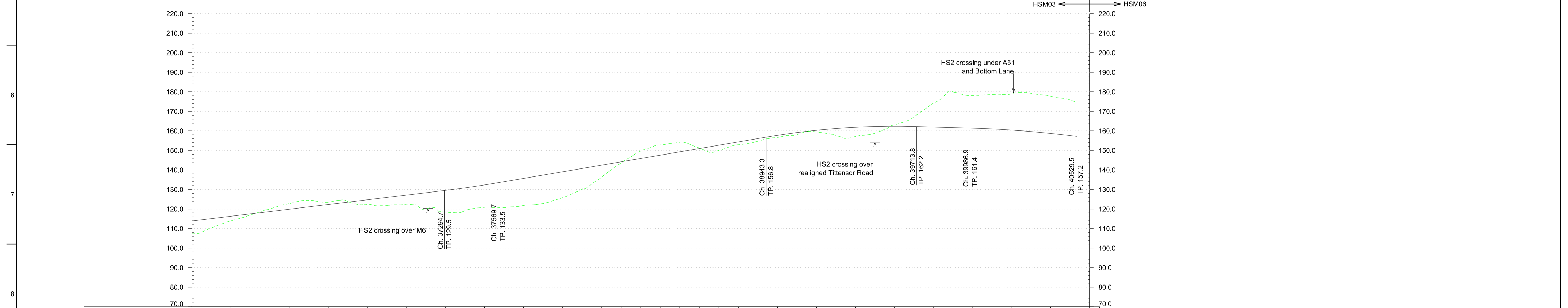


Plan  
Scale 1:10,000 @ A1



Chainage	Horizontal Alignment	Vertical Alignment	Existing Level	Proposed Track Level	Cut and Fill	Maximum Speed
36+000	TL=260.0m	L=1665.1m G=1.21%	107.3	113.9	+6.6	400 km/h
36+100			110.3	115.1	+4.8	
36+200			114.0	116.3	+2.3	
36+300			116.9	117.5	+0.6	
36+400			120.0	118.7	-1.3	
36+500			122.8	119.9	-2.9	
36+600			124.4	121.1	-3.3	
36+700			123.4	122.3	-1.1	
36+800			123.8	123.5	-0.3	
36+900			122.3	124.7	+2.4	
37+000	R=-12000.0m L=3474.4m	L=275.0m R=56000m	121.8	125.9	+4.1	
37+100			122.4	127.1	+4.7	
37+200			120.2	128.3	+8.1	
37+300			118.4	129.6	+11.2	
37+400			119.1	130.9	+11.8	
37+500			120.9	132.3	+11.4	
37+600			120.8	134.0	+13.2	
37+700			121.8	135.7	+13.9	
37+800			122.8	137.4	+14.6	
37+900			125.8	139.1	+13.3	
38+000			130.2	140.8	+10.6	
38+100			136.3	142.5	+6.2	
38+200			143.7	144.2	+0.5	
38+300			149.7	145.9	-3.8	
38+400			152.8	147.6	-5.2	
38+500			154.2	149.3	-4.9	
38+600			151.2	151.0	-0.2	
38+700			150.0	152.7	+2.7	
38+800			152.9	154.4	+1.5	
38+900			154.7	156.0	+1.3	
39+000			156.6	157.7	+1.1	
39+100			158.0	159.1	+1.1	
39+200			159.5	160.3	+0.8	
39+300			157.6	161.2	+3.6	
39+400			157.1	161.8	+4.7	
39+500			158.8	162.2	+3.4	
39+600			163.1	162.4	-0.7	
39+700			167.2	162.2	-5.0	
39+800			174.2	162.0	-12.2	
39+900			180.0	161.7	-18.3	
40+000			178.1	161.4	-16.7	
40+100			178.6	161.0	-17.6	
40+200			179.1	160.4	-18.7	
40+300			179.2	159.6	-19.6	
40+400			177.7	158.7	-19.0	
40+500			175.8	157.6	-18.2	
40+600						

Profile  
Scale H:1:10,000 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 Reserves
- Area of Outstanding Natural Beauty
- National Park
- Scheduled Monuments
- Registered Parks and Gardens
- Historical Battlefields
- Active and/or Authorised Landfill
- Historical Landfill
- Flood Zone 3

**Legend**

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

Retained structures will be used at depths of 15m or greater

Issue	Date	By	Chkd	Appd
P4	23.11.12	JA	RC	TW
P3	16.11.12	VS	RC	TW
P2	30.10.12	AS	RC	TW
P1	18.10.12	AS	RC	TW

Client

Job Title  
HS2 West Midlands to Manchester  
Initial Preferred Route  
December 2012

Scale at A1  
1:10000

Discipline  
Rail

Drawing Title  
Route HSM03  
Plan and Profile  
Sheet 7 of 7

Drawing Status  
-

Job No  
277592

Issue No  
HS2-MSG-MR0-ZZ-DR-RT-60307

Issue  
P4

MOTT MACDONALD SCOTT WILSON GRIMSHAW