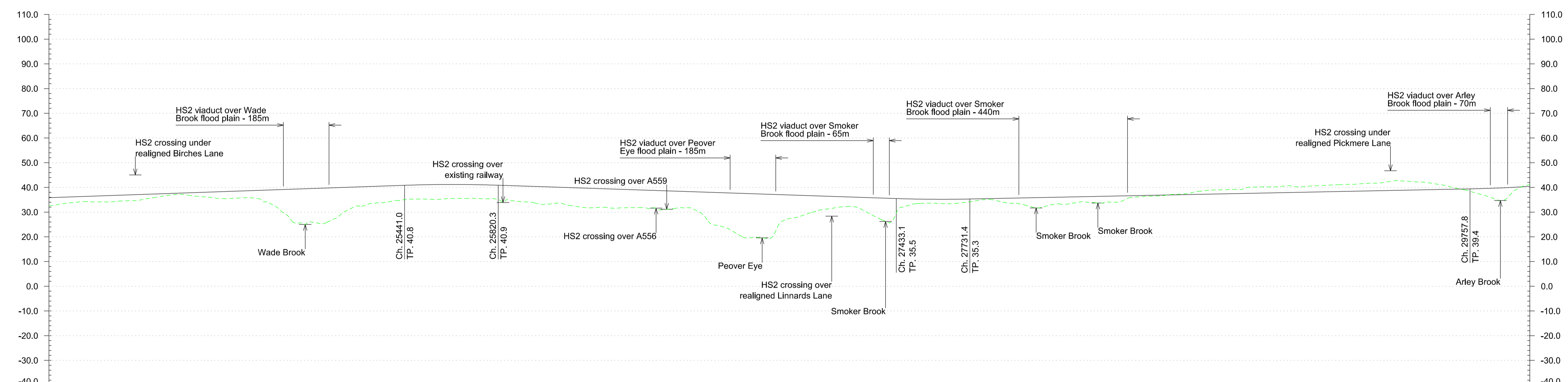


Plan  
Scale 1:10,000 @ A1



Chainage	24+000	24+100	24+200	24+300	24+400	24+500	24+600	24+700	24+800	24+900	25+000	25+100	25+200	25+300	25+400	25+500	25+600	25+700	25+800	25+900	26+000	26+100	26+200	26+300	26+400	26+500	26+600	26+700	26+800	26+900	27+000	27+100	27+200	27+300	27+400	27+500	27+600	27+700	27+800	27+900	28+000	28+100	28+200	28+300	28+400	28+500	28+600	28+700	28+800	28+900	29+000	29+100	29+200	29+300	29+400	29+500	29+600	29+700	29+800	29+900	30+000	
Horizontal Alignment	R=12000.0m L=2811.5m										TL=260.0m TL=260.0m										R=12000.0m L=2051.4m										TL=260.0m L=3112.0m																															
Vertical Alignment	L=2513.6m G=0.35%										L=379.2m R=55600m										L=1612.9m G=-0.33%										L=298.3m R=55600m										L=2026.4m G=0.20%										L=676.7m R=55600m											
Existing Level	32.5	33.9	34.1	34.5	35.5	37.0	36.4	35.4	35.8	33.3	25.6	25.3	30.3	33.4	34.6	35.3	35.3	35.5	35.5	34.4	33.1	32.9	31.7	31.6	31.8	31.1	31.7	24.7	20.5	19.5	27.4	30.2	32.0	30.7	25.8	33.3	33.5	33.8	35.1	35.6	33.6	31.7	33.2	34.1	34.0	36.1	36.6	37.3	38.8	39.2	40.2	40.5	40.5	41.0	41.3	41.9	42.5	41.7	39.7	37.2	35.0	41.2
Proposed Track Level	35.8	36.2	36.5	36.9	37.2	37.6	37.9	38.3	38.6	39.0	39.3	39.7	40.0	40.4	40.7	41.0	41.2	41.1	40.9	40.6	40.3	39.9	39.6	39.3	38.9	38.6	38.3	37.9	37.6	37.3	36.9	35.6	35.3	35.2	35.2	35.4	35.6	35.8	35.6	36.1	36.0	36.2	36.5	36.7	36.9	37.1	37.3	37.3	38.1	38.2	38.3	38.5	38.7	38.9	39.1	39.3	39.5	39.9	40.4			
Cut and Fill	+3.3	+2.3	+2.4	+2.4	+1.7	+0.6	+1.5	+2.9	+2.8	+5.7	+13.7	+14.4	+8.7	+7.0	+6.1	+5.7	+5.9	+5.6	+5.4	+6.2	+7.2	+7.0	+7.9	+7.7	+7.1	+7.5	+6.6	+13.2	+17.1	+17.8	+9.5	+6.4	+4.3	+5.2	+9.8	+2.0	+1.7	+1.4	+0.3	+2.0	+4.1	+2.8	+2.1	+2.5	+0.6	+0.3	-0.2	-1.5	-1.7	-2.5	-2.6	-2.4	-2.7	-2.8	-3.2	-3.6	-2.6	-0.4	+2.3	+4.9	-0.8	
Maximum Speed	400 km/h																																																													

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
- Retained structures will be used at depths of 15m or greater
- Railway Cutting
- Railway Embankment
- Highway Cutting
- Highway Embankment

Issue	Date	By	Chkd	Appd
P4	23.11.12	JA	RC	TW
P3	16.11.12	JFF	RC	TW
P2	30.10.12	AS	RC	TW
P1	19.10.12	AS	RC	TW

Client: **hs2**

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

Scale at A1: **1:10000**

Discipline: **Rail**

**MSG**  
MOTT MACDONALD SCOTT WILSON GRIMSHAW

Drawing Title: **Route HSM10 Plan and Profile Sheet 5 of 6**

Drawing Status: **-**

Drawing No: **HS2-MSG-MR0-ZZ-DR-RT-61005**

Job No: **277592**

Issue: **P4**