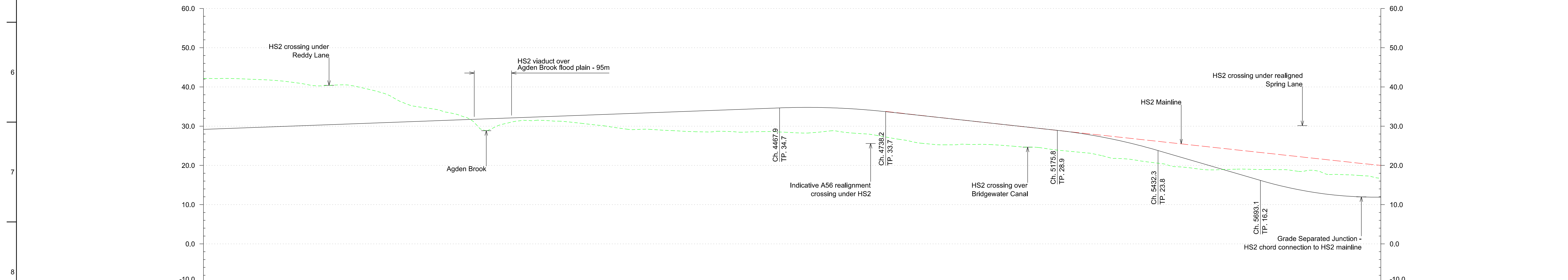


Plan  
Scale 1:5,000 @ A1



Profile  
Scale H:1:5,000 V:1:500 @ A1

Chainage	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	
Horizontal Alignment	L=953.8m		TL=224.7m		R=1496.0m		L=928.9m		TL=224.7m		L=440.1m		TL=130.0m		R=-3000.0m		TL=130.0m																																													
Vertical Alignment	L=1514.5m		G=0.37%		L=270.3m		R=18500m		L=437.7m		G=-1.09%		L=256.4m		R=14000m		L=260.9m		G=-2.92%		L=411.5m		R=10000m																																							
Existing Level	42.2	42.1	41.5	40.3	39.9	38.4	34.1	29.9	31.3	31.3	30.3	29.1	28.8	28.6	28.4	28.8	27.9	26.2	25.2	25.3	24.7	23.7	22.2	21.0	19.5	19.0	19.0	18.5	17.7	16.8																																
Proposed Track Level	29.2	29.6	29.9	30.3	30.7	31.0	31.4	31.8	32.2	32.5	32.9	33.3	33.7	34.0	34.4	34.7	34.1	33.0	31.9	30.8	29.8	28.6	27.0	24.7	21.8	18.9	16.0	13.6	12.3	11.9																																
Cut and Fill	-13.0	-12.5	-11.6	-10.0	-9.2	-5.4	-2.7	+1.9	+0.9	+1.2	+2.6	+4.2	+4.9	+5.4	+5.8	+6.3	+5.9	+6.2	+6.8	+6.7	+5.5	+5.1	+4.9	+4.8	+3.7	+2.3	-0.1	-3.0	-4.9	-5.4	-4.9																															
Maximum Speed	200 km/h																																																													

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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 Embankment
- Railway Cutting
- Highway Embankment
- Highway Cutting

Issue	Date	By	Chkd	Appd
P6	23.11.12	VS	RC	TW
P5	16.11.12	AS	RC	TW
P4	30.10.12	VS	RC	TW
P3	19.10.12	JA	RC	TW
P2	31.08.12	AS	RC	TW
P1	20.03.12	MM	RC	TW

Client: **hs2**

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

Scale at A1: **1:5000**

Discipline: **Rail**

Drawing Title: **Route HSM30 Plan and Profile Sheet 2 of 3**

Drawing Status: **-**

Drawing No: **HS2-MSG-MAJ-ZZ-DR-RT-53002**

Job No: **277592**

Issue: **P6**

Logo: **MSG MOTT MACDONALD SCOTT WILSON GRIMSHAW**