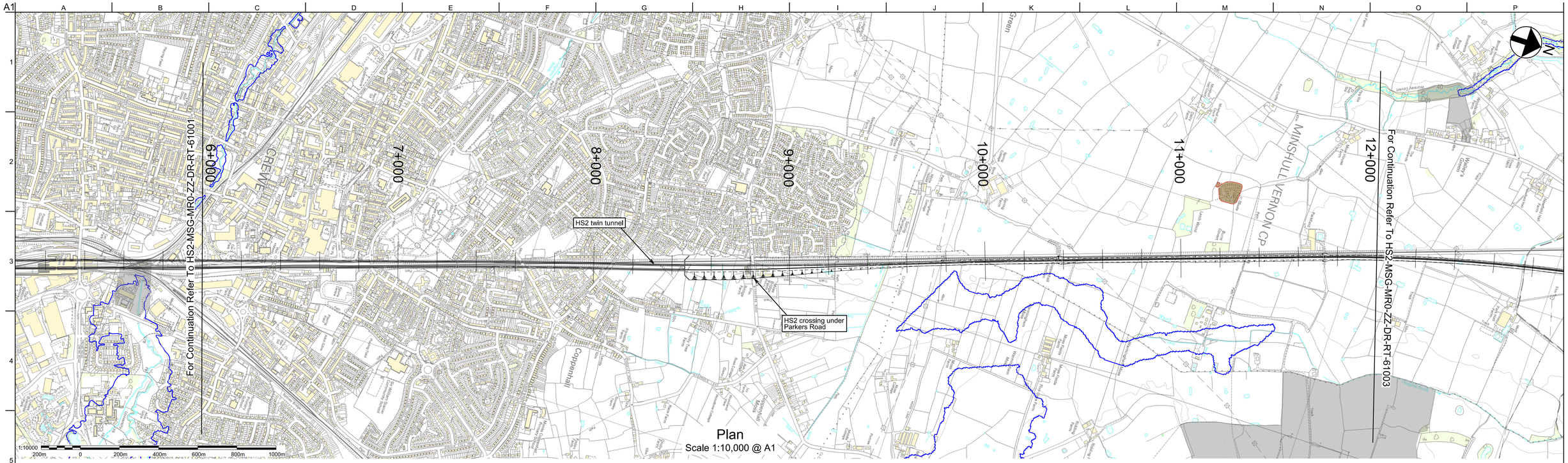
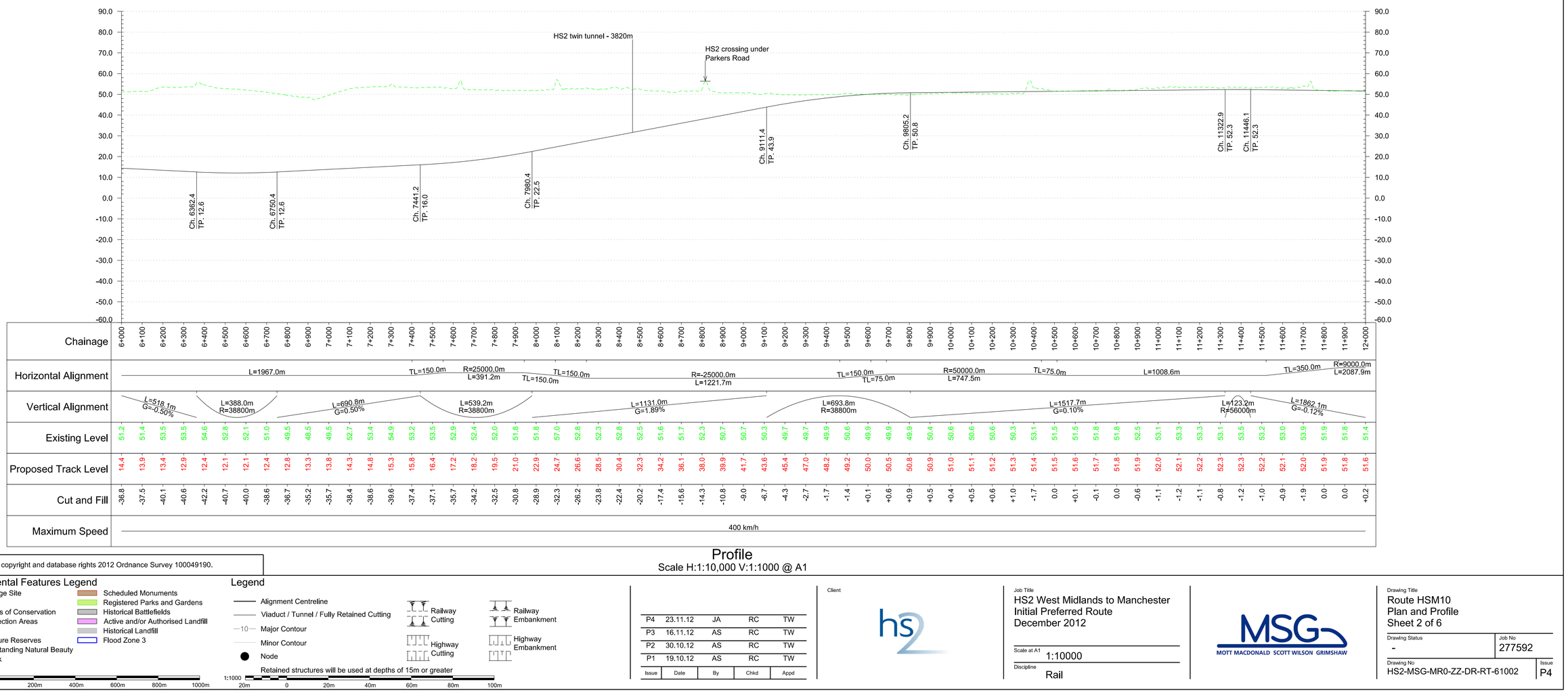
A1



Plan
Scale 1:10,000 @ A1



Chainage	6+000 6+100 6+200 6+300 6+400 6+500 6+600 6+700 6+800 6+900 7+000 7+100 7+200 7+300 7+400 7+500 7+600 7+700 7+800 7+900 8+000 8+100 8+200 8+300 8+400 8+500 8+600 8+700 8+800 8+900 9+000 9+100 9+200 9+300 9+400 9+500 9+600 9+700 9+800 9+900 10+000 10+100 10+200 10+300 10+400 10+500 10+600 10+700 10+800 10+900 11+000 11+100 11+200 11+300 11+400 11+500 11+600 11+700 11+800 11+900 12+000
Horizontal Alignment	L=1967.0m; TL=150.0m; R=25000.0m L=391.2m; TL=150.0m; TL=150.0m; R=-25000.0m L=1221.7m; TL=150.0m TL=75.0m; R=50000.0m L=747.5m; TL=75.0m; L=1008.6m; TL=350.0m; R=9000.0m L=2087.9m
Vertical Alignment	L=518.1m G=-0.50%; L=388.0m R=38800m; L=690.8m G=0.50%; L=539.2m R=38800m; L=1131.0m G=1.89%; L=693.8m R=38800m; L=1517.7m G=0.10%; L=123.2m R=56000m; L=1862.1m G=-0.12%
Existing Level	51.2 51.4 53.5 53.5 54.6 52.8 52.1 51.0 49.5 48.5 49.5 52.7 53.4 54.9 53.2 53.5 52.9 52.4 52.0 51.8 51.8 57.0 52.8 52.3 52.8 52.5 51.6 51.7 52.3 50.7 50.7 50.3 49.7 49.7 49.9 50.6 49.9 49.9 49.9 50.4 50.6 50.6 50.6 50.3 53.1 51.5 51.5 51.8 51.8 52.5 53.1 53.3 53.3 53.1 53.5 53.2 53.0 53.9 51.9 51.8 51.4
Proposed Track Level	14.4 13.9 13.4 12.9 12.4 12.1 12.1 12.4 12.8 13.3 13.8 14.3 14.8 15.3 15.8 16.4 17.2 18.2 19.5 21.0 22.9 24.7 26.6 28.5 30.4 32.3 34.2 36.1 38.0 39.9 41.7 43.6 45.4 47.0 48.2 49.2 50.0 50.5 50.8 50.9 51.0 51.1 51.2 51.3 51.4 51.5 51.6 51.7 51.8 51.9 52.0 52.1 52.2 52.3 52.3 52.2 52.1 52.0 51.9 51.8 51.6
Cut and Fill	-36.8 -37.5 -40.1 -40.6 -42.2 -40.7 -40.0 -38.6 -36.7 -35.2 -35.7 -38.4 -38.6 -39.6 -37.4 -37.1 -35.7 -34.2 -32.5 -30.8 -28.9 -32.3 -26.2 -23.8 -22.4 -20.2 -17.4 -15.6 -14.3 -10.8 -9.0 -6.7 -4.3 -2.7 -1.7 -1.4 +0.1 +0.6 +0.9 +0.5 +0.4 +0.5 +0.6 +1.0 -1.7 0.0 +0.1 -0.1 0.0 -0.6 -1.1 -1.2 -1.1 -0.8 -1.2 -1.0 -0.9 -1.9 0.0 0.0 +0.2
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

1:10000 200m 0 200m 400m 600m 800m 1000m

Legend

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

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

1:1000 20m 0 20m 40m 60m 80m 100m

Do not scale

Issue	Date	By	Chkd	Appd
P4	23.11.12	JA	RC	TW
P3	16.11.12	AS	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

MOTT MACDONALD SCOTT WILSON GRIMSHAW

Drawing Title: Route HSM10 Plan and Profile Sheet 2 of 6

Drawing Status: -

Job No: 277592

Drawing No: HS2-MSG-MR0-ZZ-DR-RT-61002

Issue: P4