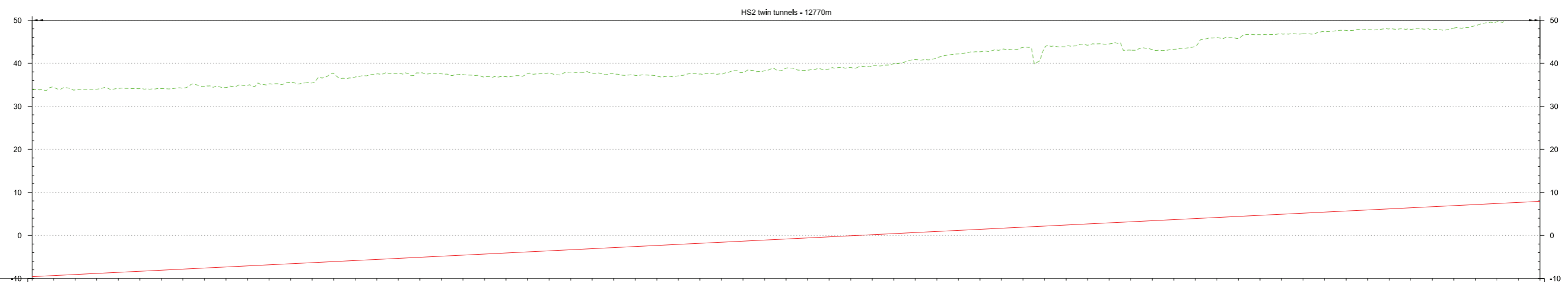


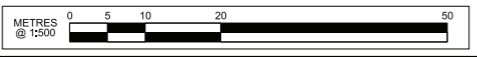
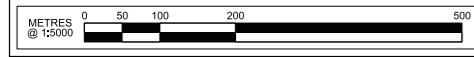
Plan  
Scale 1:5,000 @ A1



| Chainage | Horizontal Alignment | Vertical Alignment | Existing Level | Proposed Level | Cut and Fill | Design Speed |
|----------|----------------------|--------------------|----------------|----------------|--------------|--------------|
| 21+000   |                      |                    | 33.9           | -9.6           | -43.4        | 230km/h      |
| 21+050   |                      |                    | 34.4           | -9.3           | -43.7        |              |
| 21+100   |                      |                    | 33.8           | -9.1           | -42.8        |              |
| 21+150   |                      |                    | 34.0           | -8.8           | -42.8        |              |
| 21+200   |                      |                    | 34.2           | -8.6           | -42.7        |              |
| 21+250   |                      |                    | 34.2           | -8.3           | -42.5        |              |
| 21+300   |                      |                    | 34.1           | -8.1           | -42.1        |              |
| 21+350   |                      |                    | 34.2           | -7.8           | -42.0        |              |
| 21+400   |                      |                    | 34.6           | -7.6           | -42.1        |              |
| 21+450   |                      |                    | 34.4           | -7.3           | -41.7        |              |
| 21+500   |                      |                    | 34.9           | -7.1           | -41.9        |              |
| 21+550   |                      |                    | 35.2           | -6.8           | -42.0        |              |
| 21+600   |                      |                    | 35.6           | -6.6           | -42.1        |              |
| 21+650   |                      |                    | 35.4           | -6.3           | -41.7        |              |
| 21+700   |                      |                    | 37.6           | -6.1           | -43.6        |              |
| 21+750   |                      |                    | 36.8           | -5.8           | -42.6        |              |
| 21+800   |                      |                    | 37.5           | -5.6           | -43.0        |              |
| 21+850   |                      |                    | 37.6           | -5.3           | -42.9        |              |
| 21+900   |                      |                    | 37.8           | -5.1           | -42.8        |              |
| 21+950   |                      |                    | 37.5           | -4.8           | -42.3        |              |
| 22+000   |                      |                    | 37.4           | -4.6           | -41.9        |              |
| 22+050   |                      |                    | 36.8           | -4.3           | -41.1        |              |
| 22+100   |                      |                    | 36.9           | -4.1           | -40.9        |              |
| 22+150   |                      |                    | 37.6           | -3.8           | -41.4        |              |
| 22+200   |                      |                    | 37.7           | -3.6           | -41.2        |              |
| 22+250   |                      |                    | 37.9           | -3.3           | -41.2        |              |
| 22+300   |                      |                    | 37.7           | -3.1           | -40.7        |              |
| 22+350   |                      |                    | 37.5           | -2.8           | -40.3        |              |
| 22+400   |                      |                    | 37.2           | -2.6           | -39.7        |              |
| 22+450   |                      |                    | 37.1           | -2.3           | -39.4        |              |
| 22+500   |                      |                    | 37.1           | -2.1           | -39.1        |              |
| 22+550   |                      |                    | 37.5           | -1.8           | -39.3        |              |
| 22+600   |                      |                    | 37.5           | -1.6           | -39.0        |              |
| 22+650   |                      |                    | 37.9           | -1.3           | -39.2        |              |
| 22+700   |                      |                    | 38.3           | -1.1           | -39.3        |              |
| 22+750   |                      |                    | 38.9           | -0.8           | -39.7        |              |
| 22+800   |                      |                    | 38.4           | -0.6           | -38.9        |              |
| 22+850   |                      |                    | 38.7           | -0.3           | -39.0        |              |
| 22+900   |                      |                    | 39.0           | -0.1           | -39.0        |              |
| 22+950   |                      |                    | 39.4           | 0.2            | -39.2        |              |
| 23+000   |                      |                    | 39.9           | 0.4            | -39.5        |              |
| 23+050   |                      |                    | 40.9           | 0.7            | -40.2        |              |
| 23+100   |                      |                    | 41.3           | 0.9            | -40.4        |              |
| 23+150   |                      |                    | 42.2           | 1.2            | -41.0        |              |
| 23+200   |                      |                    | 42.7           | 1.4            | -41.3        |              |
| 23+250   |                      |                    | 43.2           | 1.7            | -41.5        |              |
| 23+300   |                      |                    | 43.7           | 1.9            | -41.8        |              |
| 23+350   |                      |                    | 43.5           | 2.2            | -41.3        |              |
| 23+400   |                      |                    | 44.0           | 2.4            | -41.6        |              |
| 23+450   |                      |                    | 44.2           | 2.7            | -41.5        |              |
| 23+500   |                      |                    | 44.5           | 2.9            | -41.6        |              |
| 23+550   |                      |                    | 43.1           | 3.2            | -39.9        |              |
| 23+600   |                      |                    | 43.2           | 3.4            | -39.8        |              |
| 23+650   |                      |                    | 43.3           | 3.7            | -39.6        |              |
| 23+700   |                      |                    | 44.0           | 3.9            | -40.1        |              |
| 23+750   |                      |                    | 46.0           | 4.2            | -41.8        |              |
| 23+800   |                      |                    | 45.8           | 4.4            | -41.4        |              |
| 23+850   |                      |                    | 46.6           | 4.7            | -41.9        |              |
| 23+900   |                      |                    | 46.8           | 4.9            | -41.9        |              |
| 23+950   |                      |                    | 46.9           | 5.2            | -41.7        |              |
| 24+000   |                      |                    | 47.3           | 5.4            | -41.9        |              |
| 24+050   |                      |                    | 47.6           | 5.7            | -41.9        |              |
| 24+100   |                      |                    | 47.8           | 5.9            | -41.9        |              |
| 24+150   |                      |                    | 48.0           | 6.2            | -41.8        |              |
| 24+200   |                      |                    | 47.9           | 6.4            | -41.5        |              |
| 24+250   |                      |                    | 47.8           | 6.7            | -41.1        |              |
| 24+300   |                      |                    | 48.2           | 6.9            | -41.3        |              |
| 24+350   |                      |                    | 48.7           | 7.2            | -41.5        |              |
| 24+400   |                      |                    | 49.6           | 7.4            | -42.2        |              |
| 24+450   |                      |                    | 50.4           | 7.7            | -42.7        |              |
| 24+500   |                      |                    | 50.6           | 7.9            | -42.7        |              |

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

**Fit for Acceptance**



| Rev | Description                           | Drawn | Checked | Con App | HS2 App |
|-----|---------------------------------------|-------|---------|---------|---------|
| P04 | Updated to comments (annotation only) | KB    | DC      | JG      |         |
| P03 | Updated to comments (annotation only) | KB    | DC      | JG      |         |
| P02 | Updated to comments (annotation only) | KB    | DC      | JG      |         |
| P01 | First Issue                           | KB    | DC      | JG      |         |

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Scale with caution as distortion can occur.

**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
- Major Development Sites
- Additional Development Sites
- Scheduled Monuments
- Registered Parks and Gardens
- Historical Battlefields
- Active and/or Authorised Landfill
- Historical Landfill
- Flood Zones
- Listed Building Grade I
- Listed Building Grade II\*
- Listed Building Grade II

**Legend**

- Track Centrelines
- Viaduct
- Tunnel
- Existing Railway Connection
- HS2 Connection
- Fully Retained Cutting/Fill
- Major Contour
- Ground Profile
- Track Profile
- Minor Contour
- Node
- Engineering Earthworks
- Railway Cutting
- Railway Embankment
- HS2 Depot/Station
- Operational Boundary

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London, E14 5AB

Creator/Oriinator  
**AECOM**

|               |                              |
|---------------|------------------------------|
| Zone          | Manchester Metropolitan Spur |
| Design Stage  | Post-Consultation            |
| Drawing Title | Preferred Route - HSM28B     |
|               | Plan and Profile             |
|               | Sheet 6 of 7                 |

|                     |         |          |                                   |          |    |
|---------------------|---------|----------|-----------------------------------|----------|----|
| Project/Contract    |         |          | West Midlands to Manchester Route |          |    |
| Discipline/Function |         |          | Railway Track                     |          |    |
| Drawn               | Checked | Approved | KB                                | DC       | JG |
| Date                | Scale   | Size     | 13/01/2016                        | AS SHOWN | A1 |
| Drawing No.         |         |          | C320-AEC-RT-DPP-240-065288        |          |    |
| Rev.                |         |          | P04                               |          |    |