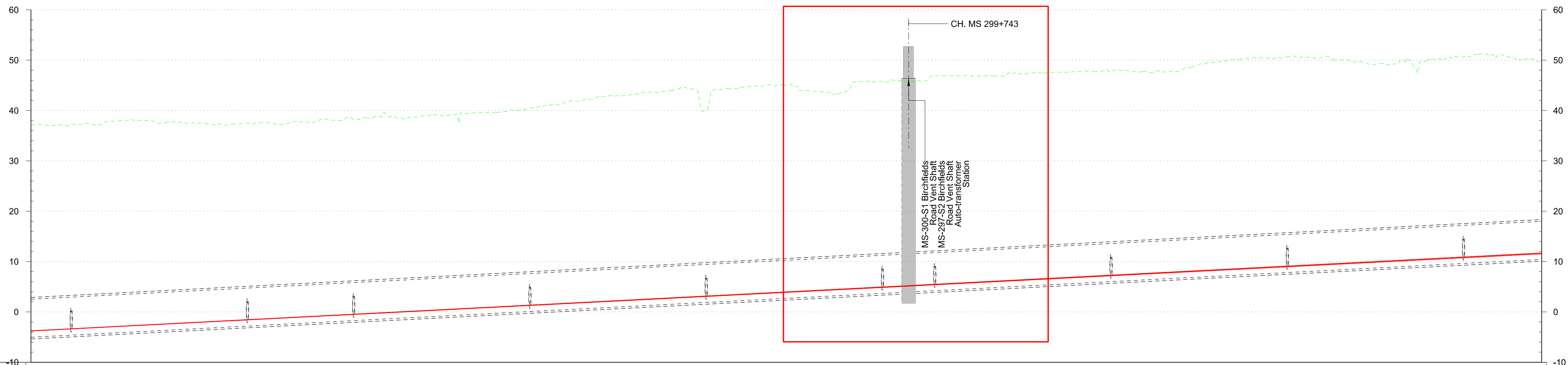


Plan
Scale 1:5,000 @ A1

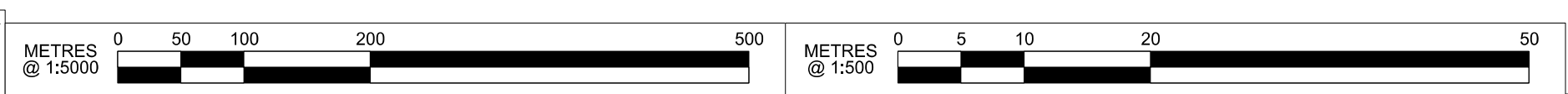


Route Element ID	MS-290-L2 Manchester Tunnel																																			
Chainage	MS 298+000	MS 298+100	MS 298+200	MS 298+300	MS 298+400	MS 298+500	MS 298+600	MS 298+700	MS 298+800	MS 298+900	MS 299+000	MS 299+100	MS 299+200	MS 299+300	MS 299+400	MS 299+500	MS 299+600	MS 299+700	MS 299+800	MS 299+900	MS 300+000	MS 300+100	MS 300+200	MS 300+300	MS 300+400	MS 300+500	MS 300+600	MS 300+700	MS 300+800	MS 300+900	MS 301+000					
Horizontal Alignment	L=1133.3														MS 298865.9		L=200.0		MS 299065.9		R=-4000.0		L=619.0		MS 299665.9		MS 299735.9		L=5028.3		G=0.515%		R=-3000.0		L=1911.5	
Vertical Alignment																																				
Existing Level	37.2	37.3	38.2	37.6	37.3	37.2	38.1	39.5	39.2	39.6	40.5	42.2	43.3	44.5	44.3	44.9	43.3	45.7	46.9	46.9	47.5	47.8	47.7	48.5	50.1	50.7	50.0	49.2	50.2	51.1	49.4					
Proposed Level	-3.8	-3.3	-2.7	-2.2	-1.7	-1.2	-0.7	-0.2	0.4	0.9	1.4	1.9	2.4	2.9	3.4	4.0	4.5	5.0	5.5	6.0	6.5	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.7	11.2	11.7					
Cut and Fill	-40.9	-40.5	-40.9	-39.8	-39.0	-38.3	-38.7	-39.6	-38.8	-38.7	-38.1	-40.3	-40.9	-41.6	-40.9	-40.9	-38.8	-40.7	-41.4	-40.9	-41.0	-40.7	-40.1	-40.4	-41.5	-41.6	-40.4	-39.1	-39.5	-39.9	-37.7					
Design Speed	230km/h																																			

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

Fit for Acceptance

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Rev	Description	Drawn	Checked	Con App	HS2 App	Scale with caution as distortion can occur.

Legends/Notes:

- Depot, station, headhouse, shaft or portal building
- Tunnel portal
- Electricity substation
- Ecological mitigation pond
- Balancing pond
- Pumping station
- Replacement floodplain storage area
- Denotes Area of Consultation
- Woodland habitat creation
- Wetland habitat creation
- Grassland habitat creation
- Landscape mitigation planting (scrub / woodland)
- Grassed areas
- Local placement
- Public realm
- Engineering earthworks
- Landscape earthworks
- Rail alignment formation
- Returned to suitable development use
- County boundary
- Borough / District boundary
- Major contour
- Community area boundary
- Existing watercourse
- Watercourse diversions
- New Ditches
- Hedgerow habitat creation
- Major utility works
- Noise fence barrier
- Existing public right of way
- New, diverted or realigned public right of way
- Public right of way closure
- Tunnels external extent
- HS2 access road
- Realigned highway
- Rail alignment

Registered in England
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Registered office:
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Creator/Oriinator
MW JV (Mott MacDonald and WSP Joint Venture)

Chainage (e.g. 10+000)

Zone	M3 Wide – Hulseheath to Manchester	Project/Contract	CDDES Area 1 (CE1)
Design Stage	Hybrid Bill - Draft Interim Preliminary Design	Discipline/Function	Civil
Drawn	GHU	Checked	GHU
Approved	DCL	Date	20/05/2019
Scale	AS SHOWN	Size	A1
Drawing Title	Manchester Tunnel Birchfields Road Ventilation Shaft	Drawing No.	2DE01-MWJ-CV-DPP-M003-020606
Rev.		Rev.	P01

Chainage (e.g. 10+000)	10+000
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