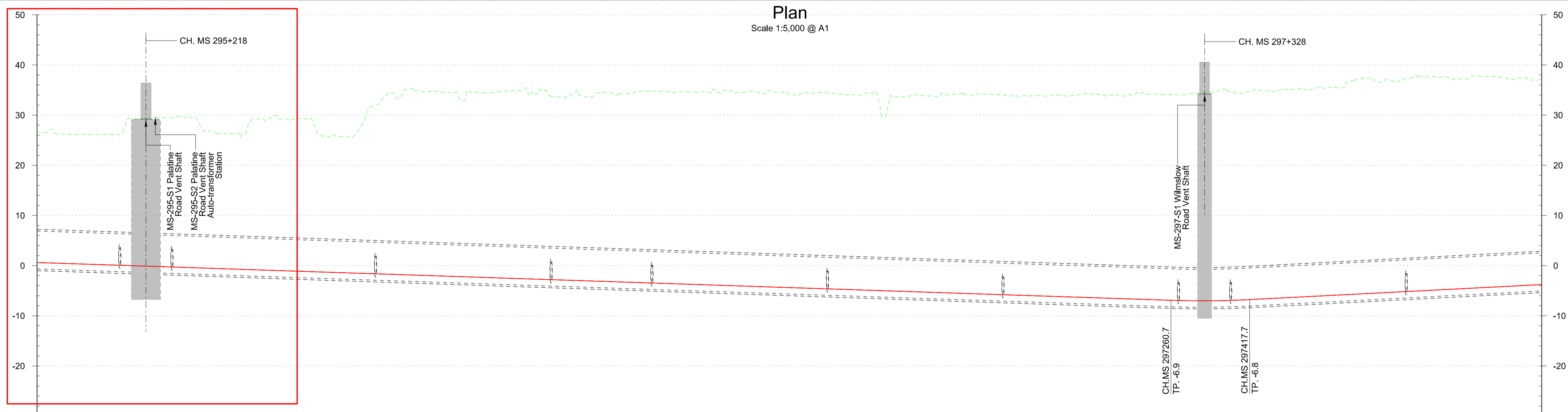
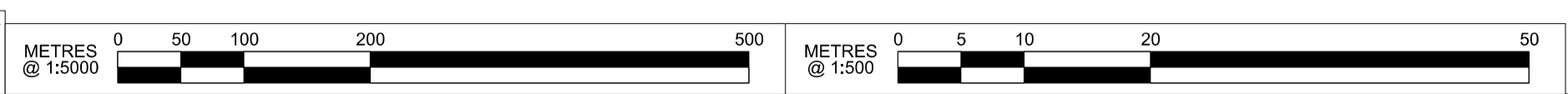


Plan  
Scale 1:5,000 @ A1



Route Element ID	MS-290-L2 Manchester Tunnel																															
Chainage	MS 295+000	MS 295+100	MS 295+200	MS 295+300	MS 295+400	MS 295+500	MS 295+600	MS 295+700	MS 295+800	MS 295+900	MS 296+000	MS 296+100	MS 296+200	MS 296+300	MS 296+400	MS 296+500	MS 296+600	MS 296+700	MS 296+800	MS 296+900	MS 297+000	MS 297+100	MS 297+200	MS 297+300	MS 297+400	MS 297+500	MS 297+600	MS 297+700	MS 297+800	MS 297+900	MS 298+000	
Horizontal Alignment	R=5242.3 L=780.1		R=29653.5 L=160.3		MS 296513.8		L=1511.6												MS 29725.4		MS 297076.4		MS 29725.4		R=21000.0 L=608.2		MS 29725.4		R=18500.0 L=5028.3 G=0.515%		L=1133.3	
Vertical Alignment	L=5213.3 G=-0.333%																															
Existing Level	26.8	26.1	29.2	29.4	26.4	29.1	25.7	34.4	34.7	34.5	35.1	33.6	34.7	34.6	34.5	34.0	34.2	33.5	33.8	34.2	34.0	34.2	34.5	34.3	34.4	35.1	35.5	36.9	37.6	37.7	37.2	
Proposed Level	0.6	0.3	-0.0	-0.4	-0.7	-1.0	-1.4	-1.7	-2.0	-2.4	-2.7	-3.0	-3.4	-3.7	-4.0	-4.4	-4.7	-5.0	-5.4	-5.7	-6.0	-6.4	-6.7	-7.0	-6.9	-6.3	-5.8	-5.3	-4.8	-4.3	-3.8	
Cut and Fill	-26.2	-25.8	-29.2	-29.7	-27.1	-30.1	-27.0	-36.1	-36.7	-36.8	-37.8	-36.6	-38.0	-38.3	-38.5	-38.3	-38.9	-38.5	-39.1	-39.9	-40.0	-40.5	-41.2	-41.3	-41.2	-41.4	-41.3	-42.2	-42.3	-41.9	-40.9	
Design Speed	230km/h																															

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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
- Hedge/row 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

**HS2**

Registered in England  
Registration No. 06791686  
Registered office:  
2 Snow Hill, Queensway,  
Birmingham, B4 6GA

Creator/Oriator  
MW JV (Mott MacDonald and WSP Joint Venture)

Zone	M3 Wide – Hulseheath to Manchester	Project/Contract	CDER Area 1 (CE1)
Design Stage	Hybrid Bill - Draft Interim Preliminary Design	Discipline/Function	Civil
Drawing Title	Manchester Tunnel - Palatine Road	Drawn	GHU
	Ventilation Shaft	Checked	GHU
	Plan & Profile Sheet 1 of 1	Approved	DCL
Chainage (e.g. 10+000)		Date	20/05/2019
		Scale	AS SHOWN
		Size	A1
		Drawing No.	2DE01-MWJ-CV-DPP-M003-020605
		Rev.	P01