

High Speed Rail (West Midlands - Crewe)

Environmental Statement

Volume 5: Technical appendices

CA3: Stone and Swynnerton

Cultural heritage impact assessment table (CH-003-003)



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Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared for High Speed Two (HS2) Limited:

ARUP



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1 Introduction

1.1 Structure of the cultural heritage appendices

1.1.1 The cultural heritage Appendices for the Stone and Swynnerton community area (CA3) comprise:

- a baseline report (Volume 5: Appendix CH-001-003);
- a Gazetteer of heritage assets (Volume 5: Appendix CH-002-003);
- an impact assessment table (this Appendix); and
- survey reports, incorporating geophysical survey and remote sensing studies, which are available in the Background Information and Data document¹.

1.1.2 In addition there are two route-wide cultural heritage Appendices:

- a historic landscape character report (Volume 5: Appendix CH-005-000); and
- a geoarchaeology desk study report (Volume 5: Appendix CH-006-000).

1.1.3 Maps referred to throughout the cultural heritage Appendices are contained in the Volume 5: Cultural Heritage Map Book.

1.1.4 Where relevant, potential effects resulting from construction or operational noise have been considered during assessment. These are detailed in Volume 5: Appendix SV-002-003: Sound, noise and vibration report.

1.2 Impact assessment

1.2.1 Table 1 presents information on the impacts on all identified heritage assets and the likely resultant environmental effects, taking into account agreed mitigation measures. Details on the assignment of values and the assessment of the scale of impacts are set out in the Environmental Impact Assessment Scope and Methodology Report and its Addendum (see Volume 5: Appendices CT-001-001 and CT-001-002).

¹ HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Background Information and Data, Cultural heritage survey reports*, BID-CH-004-003, www.gov.uk/hs2

Table 1: Impact assessment for the Stone and Swynnerton area

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STS001	Undated enclosure at Peasley Bank	Non-designated	Low	The asset comprises earthwork features of unknown date. The significance of the asset is largely derived from its evidential value as to its form, date and function. The asset is within the land required for the Proposed Scheme and will be removed.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STS002	Aston by Stone	Listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away. There are no clear views of the route from the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS003	Trent and Mersey Canal in Stone south	Conservation area, listed building	Moderate	The route of the Proposed Scheme is located more than 1.75km away. The significance of the asset lies in its historic and evidential value as a piece of 18 th century infrastructure and from its setting, which is defined by the group value of the buildings and features within it and from its relationship to the natural topography through which it was constructed. Construction activities have the potential to cause visual and noise impact on the setting of the conservation area. The constructed scheme will be screened by topography and planting to such an extent that appreciation of the setting of the asset will not be affected. There will be distant and fleeting views of	Minimal	Temporary Minor Adverse	There will be a slight change to distant setting of the asset from the addition of train movement. This will largely be lost in the much more constant and nearer traffic noise and movement from the A34 Stone Road/The Fillybrooks.	Minimal	Permanent Minor Adverse

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				Yarlet embankment beyond the buffer of the River Trent meadows and the intervening A34 Stone Road/The Fillybrooks.					
STS004	Pire Hill	Non-designated	Low	The asset is located approximately 30m away from the land required for the Proposed Scheme. This hill is thought to be the location of a possible look-out or beacon. If present, the significance of the asset would relate both to its evidential value and the wide-ranging views from the summit, which forms its setting. While some visual impacts will occur during construction these will be temporary. The Yarlet North cutting will be excavated within 50m of the summit of Pire Hill. Construction of the cutting has the potential to permanently destroy any buried remains.	Minimal High	Temporary Negligible Adverse Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STS005	North Pirehill Farm	Non-designated	Low	The asset is located immediately adjacent to the land required for the Proposed Scheme. The Yarlet North cutting and Stone Rural Bridleway 0.1135 accommodation overbridge will be constructed within 100m of the historic elements of the farm complex. Construction activities including traffic movements along Pirehill Lane will intrude into the rural, agricultural, setting of the complex. Once construction is complete the cutting will be screened by mitigation planting,	Medium Minimal	Temporary Minor Adverse Permanent Negligible Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				which will form a new element in the immediate setting of the farm.					
STS006	Walton House Farm	Non-designated	Low	The asset is located immediately adjacent to the land required for the Proposed Scheme. The Yarlet North cutting and Stone Rural Bridleway 0.1135 accommodation overbridge will be constructed within 100m of the historic elements of the farmstead. Construction activities including traffic movements along Common Lane will intrude into the rural, agricultural, setting of the complex. Once construction is complete the cutting will be screened by mitigation planting, which will form a new element in the immediate setting of the farm.	Medium Minimal	Temporary Minor Adverse Permanent Negligible Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STS007	Outfarm north-east of Walton Heath Farm, Stone	Non-designated	Low	The asset is located approximately 180m away from the land required for the Proposed Scheme. Yarlet North cutting will be constructed within 150m of the historic elements of the farmstead. Construction activities including traffic movements along Common Lane will intrude into the rural, agricultural, setting of the complex. Once construction is complete the cutting will be screened by extensive tree planting, which will form a new element in the immediate setting of the farm.	Medium Minimal	Temporary Minor Adverse Permanent Negligible Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STS008	Peat extraction site, Walton Heath	Non-designated	Low	The asset is located within the land required for the Proposed Scheme and will be removed.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STS009	Site of farmstead north-east of Walton Heath Farm, Stone	Non-designated	Low	The route of the Proposed Scheme will be more than 350m from the asset. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS010	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used
STS011	Milepost, Walton Heath, Stone	Non-designated	Low	The asset lies immediately outside of the land required for the Proposed Scheme and will not be impacted upon.	No change	Neutral	No impact upon significance.	No change	Neutral
STS012	Walton	Listed buildings	High	The route of the Proposed Scheme is located more than 1.4km from this group of listed buildings and is screened from them by intervening buildings. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS013	Field systems west of Walton and Darlaston	Non-designated	Low	Construction of Yarlet North cutting, Filly Brook viaduct temporary railhead facilities and the Stone IMB-R, realignment of Yarnfield Lane and associated mitigation earthworks and planting will require the removal of the western fringe of an extensive area of field systems.	Medium	Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo14	Clement House/Walton Heath Farm	Non-designated	Low	The asset is located approximately 10m from the land required for the Proposed Scheme. The Yarlet North cutting and Stone Rural Footpath 32 accommodation overbridge will be constructed within 100m of the historic elements of the farm complex. Construction activities including traffic movements along Common Lane (Swynnerton) will intrude into the rural, agricultural, setting of the complex. Once construction is complete the cutting will be screened by extensive mitigation planting, which will form a new element in the immediate setting of the farm.	Medium Minimal	Temporary Minor Adverse Permanent Negligible Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo15	Micklow House Farm	Non-designated	Low	The Yarlet North cutting, Filly Brook viaduct, Stone railhead and associated earthworks will be constructed immediately adjacent to the farmstead. Construction activities including traffic movements along the B5026 Eccleshall Road will intrude into the rural, agricultural, setting of the complex. Once construction is complete the cutting will be screened by extensive mitigation planting, which will form a new element in the immediate setting of the farm, as will the viaduct and Stone IMB-R structures.	Medium Medium	Temporary Minor Adverse Permanent Minor Adverse	Noise from train movements immediately adjacent to the farm will be mitigated by screening earthworks and planting. Train movement on the Filly Brook viaduct and within the Stone IMB-R, as well as lighting effects from the Stone IMB-R, will constitute a distant (approximately 600m) intrusion into the setting of the farm.	Minimal	Permanent Negligible Adverse

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STS016	Darlaston Pool	Non-designated	Low	The construction of the Proposed Scheme will require the removal of this asset.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STS017	Trent and Mersey Canal in Stone Central	Conservation area, listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away from the asset beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS018	Stone town centre	Conservation area, listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS019	St Michael's Church and associated buildings and structures	Listed building	High	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS020	Park Lodge	Listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo21	A519 Newcastle Road, Stone	Listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo22	Church of St James	Listed building	Moderate	The route of the Proposed Scheme will run over 1.8km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo23	Stone outskirts	Listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo24	Yarnfield	Listed building	Moderate	The route of the Proposed Scheme will run over 1km away and will be separated from the asset by the existing M6 motorway and screened by the more modern development of Yarnfield village. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo25	Darlaston Grange Farm, Stone	Non-designated	Low	The asset is located approximately 120m away from the route of the Proposed Scheme. The construction of the Filly Brook viaduct, Stone railhead and Stone IMB-R along with associated	Medium	Temporary Minor Adverse	Train movement on the Filly Brook viaduct and within the Stone IMB-R, as well as lighting effects from the Stone IMB-R, will constitute a distant	Minimal	Permanent Negligible Adverse

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				earthworks and planting will take place at a distance of over 500m and will be partly screened by topography. Construction activity and associated traffic movements along Yarnfield Lane, which will be realigned in the vicinity of the Stone IMB-R, will intrude into the rural, agricultural, setting of the farm. Once complete the scheme will be screened by mitigation earthworks and planting, which will form a new element in the immediate setting of the farm as will the viaduct and IMB-R structures.	Minimal	Permanent Negligible Adverse	intrusion into the setting of the farm.		
STSo26	Landscape park, Darlaston Hall, Stone	Non-designated	Low	The asset lies within the area of proposed off-route highways and associated works on Yarnfield Lane. The changes will involve provision of three passing bays and localised widening. In addition there will be mitigation planting of woodland within Darlaston Park, between areas of historic woodland planting on the southern edge of the historic parkland. This will result in a change to the historic character of this portion of the remnant designed landscape.	Medium	Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo27	Former trackways Darlaston Park, Swynnerton	Non-designated	Low	The construction of the Stone railhead and Stone IMB-R along with the realignment of Stone Rural Footpath 33 will require the removal of a substantial portion of the historic routeway.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo28	Stone Hospital, Swynnerton	Non-designated	Low	The route of the Proposed Scheme will be more than 350m away on the far side of the existing M6 motorway. Construction activity and associated traffic movements along Yarnfield Lane, itself subject to realignment, may intrude into the isolated setting of the former hospital. Once complete the scheme will be screened by earthworks and planting on the near side of the M6.	Low Minimal	Temporary Minor Adverse Permanent Negligible Adverse	Lighting effects from the Stone IMB-R will constitute a distant intrusion into the setting of the farm.	Minimal	Permanent Negligible Adverse
STSo29	Blakelow	Non-designated	Low	The construction of the Meaford North embankment, realignment of Swynnerton Footpath 17, underground diversion of a Western Power Distribution 33kV overhead line and a Scottish Power Energy Networks 132kV overhead line, and creation of new ponds will require the complete removal of the historic routeway.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo30	Blakelow Farm	Non-designated	Low	The asset lies within the land required for the Proposed Scheme. The construction of Meaford North embankment, realignment of Swynnerton Footpath 17, underground diversion of a Western Power Distribution 33kV overhead line and a Scottish Power Energy Networks 132kV overhead line, and creation of new ponds will remove peripheral elements of the farmstead and will introduce noise and movement from construction activities in close proximity to the farm, which will disturb the rural,	High High	Temporary Moderate Adverse Permanent Moderate Adverse	Operation of the Proposed scheme will introduce noise into the setting of the asset in contrast to the asset's historical significance as a farm, with its historic landscape context of fields and the traditional rural economy.	High	Permanent Moderate Adverse

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				agricultural setting of the asset. Once complete the embankment will constitute a substantial new element in the immediate setting of the farm, and in combination with the existing M6 motorway will sever the farm from its wider setting.					
STSo31	Swynnerton Grange	Non-designated	Low	The underground diversion of a Western Power Distribution 33kV overhead line and a Scottish Power Energy Networks 132kV overhead line will be carried out within approximately 50m of this asset. Draft Code of Construction Practice ² (CoCP) procedures will ensure no direct impact on the remains.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo32	Swynnerton Grange Farm, Swynnerton	Non-designated	Low	The asset is located immediately adjacent to the land required for the Proposed Scheme. The construction of Meaford North embankment, re-alignment of Swynnerton Footpath 17, underground diversion of a Western Power Distribution 33kV overhead line and a Scottish Power Energy Networks 132kV overhead line, and creation of new ponds less than 400m the farm will disturb the rural, agricultural setting of the asset. Once complete the embankment will constitute a	Medium Medium	Temporary Minor Adverse Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

² Draft Code of Construction Practice, Volume 5: Appendix CT-003-000

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				substantial new element in the immediate setting of the farm.					
STS033	Enclosure at Swynnerton Grange	Non-designated	Moderate	The asset lies approximately 210m outside of the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS034	Meaford	Conservation area, listed building	High	The route of the Proposed Scheme will be more than 1.5km from the park and is screened from it by intervening topography. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS035	Multivallate hillfort at Bury Bank	Scheduled monument	High	The asset is located approximately 650m away from the land required for the Proposed Scheme. The construction of Meaford North embankment, Meaford viaduct, the temporary railhead and Stone IMB-R, balancing ponds and associated planting will take place more than 1.5km from the hillfort. Underground diversion of a Western Power Distribution 33kV overhead line and a Scottish Power Energy Networks 132kV overhead line will take place within approximately 1km. Construction noise and movement will be distant within the setting and unlikely to be heard or overtly visible due to the presence of the M6 and the A34 Stone Road/The Fillybrooks. Once constructed the Stone IMB-R, viaduct and embankment will form a new	Minimal Minimal	Temporary Minor Adverse Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				element in the distant setting of the hillfort albeit one closely integrated to the existing M6 motorway.					
STSo36	Saxon's Lowe, Tittensor	Scheduled monument	High	The asset is located approximately 770m away from the land required for the Propose Scheme. The significance of the asset is derived from its historic and evidential value as an extant feature dating to the Iron Age and from its setting. The asset's setting is defined by its topographical prominence within an area of managed woodland, through which the M6 and the A34 Stone Road/The Fillybrooks also pass. The construction of Meaford North embankment, Meaford viaduct, the temporary railhead and Stone IMB-R, balancing ponds and associated planting will take place more than 1.5km from the earthwork. Underground diversion of a Western Power Distribution 33kV overhead line and a Scottish Power Energy Networks 132kV overhead line will take place within approximately 1km. Construction noise and movement will be distant within the setting and unlikely to be heard or overtly visible due to the presence of the M6 and the A34 Stone Road/The Fillybrooks. Once constructed the Stone IMB-R, viaduct and embankment will form a new element in the distant setting of the earthwork albeit one closely	Minimal Minimal	Temporary Minor Adverse Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				integrated to the existing M6 motorway.					
STSo37	Swynnerton	Non-designated	Low	The construction of Meaford North embankment will require the removal of a substantial proportion of this asset.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo38	West of Darlaston Wood	Non-designated	Low	The asset lies immediately outside the land required for the Proposed Scheme and will not be impacted upon.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo39	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used
STSo40	Swynnerton Park	Non-designated	Low	Mitigation planting along the route of the Proposed Scheme will impact on a small portion of the landscape features in the outer part of Swynnerton Park.	Minimal	Permanent Negligible Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo41	Ridge and furrow, Swynnerton Park	Non-designated	Low	The asset lies approximately 40m outside of the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo42	Swynnerton Conservation Area	Conservation area, listed buildings	High	The asset is located adjacent to the land required for the Proposed Scheme. The Swynnerton South cutting, Swynnerton embankment and Swynnerton North cutting will be constructed more than 500m from the edge of Swynnerton Conservation Area. Construction	Low Low	Temporary Moderate Adverse Permanent Moderate adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				<p>activities will be screened from the conservation area and the listed buildings within it by the mature tree cover that currently exists along the eastern edge of Swynnerton Old Park, continuing along the eastern edge of the conservation area to Tittensor Road. The realignment of Tittensor Road will require construction activity within the northern part of the conservation area between the existing road and Stab Lane. Draft CoCP provisions will minimise the construction effects, including from construction traffic, on the conservation area and the listed buildings in proximity to the proposed works. Once construction is complete a key view into the village will have been removed, a new element added to the northern part of the conservation area and tree/hedge boundaries, which form a characteristic element of the conservation area, will have been altered. Closure of Tittensor Road will reduce traffic disturbance in the vicinity of Queenswood Lodge a non-designated building in the northern part of the conservation area.</p>					

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo43	Bowl barrow in Swynnerton Park	Scheduled monument	High	The route of the Proposed Scheme will be more than 1.2km away from the asset and will be screened by intervening topography. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo44	Ring ditch, Sandyford	Non-designated	Low	The asset lies approximately 245m outside of the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo45	Linear feature Wing House Farm, Swynnerton	Non-designated	Unknown	The asset lies approximately 360m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo46	Features at The Stretters	Non-designated	Unknown	The asset lies approximately 15m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo47	Water tower half a mile to the north of Swynnerton Village	Listed building	Moderate	The asset (Swynnerton Water Tower) is located approximately 70m away from the land required for the Proposed Scheme. The construction of the realigned Tittensor Road and Swynnerton North cutting will alter the agricultural, rural, character of the immediate setting of the water tower. Once constructed the re-aligned Tittensor Road will bring road traffic closer to the water tower, albeit this will be screened by planting. Swynnerton North	Medium Medium	Temporary Moderate Adverse Permanent Moderate Adverse	The setting of the water tower will be affected by noise and movement from the trains passing by in the valley below.	Medium	Permanent Moderate Adverse

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				cutting will be screened by substantial planting belts, which generally conform to the wooded nature of the existing landscape. Closure of Stab Lane will reduce traffic flow in the immediate vicinity of the water tower.					
STSo48	Milepost near Cash's Pit north of Swynnerton village	Non-designated	Low	The milepost is located within the land required for the Proposed Scheme and will be removed.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo49	Swynnerton Heath Farmhouse	Listed building	Moderate	The asset lies approximately 30m away from the land required for the Proposed Scheme. Construction of Swynnerton North cutting, Swynnerton Heath Farm overbridge, diversion of the A51 Stone Road and associated planting and associated earthworks, including attenuation ponds, will occur between 200m and 350m from the historic farm buildings and will temporarily alter the rural, agricultural, setting of the farm. Once constructed the realigned A51 Stone Road, Swynnerton North cutting and attenuation ponds will be screened by mitigation planting of trees and hedgerows.	Medium Medium	Temporary Moderate Adverse Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo50	South of New Waste Plantation	Non-designated	Low	The asset lies immediately outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STS051	Former pumping works at Hatton Rough	Listed building	Moderate	The asset lies approximately 70m away from the land required for the Proposed Scheme. Hatton South cutting and associated ponds and planting will be constructed more than 800m from the former pumping station. Intervening topography and existing woodland will screen the route of the Proposed Scheme from the listed buildings. Improvements to Common Lane between the route of the Proposed Scheme and Hatton Farm will approach no closer than 400m to the buildings. Once constructed Hatton South cutting will be screened by mitigation planting.	Minimal	Temporary Minor Adverse	No impact upon significance.	No change	Neutral
STS052	Cotes Lodge	Listed building	Moderate	The route of the Proposed Scheme will be more than 1.2km from the asset and will be screened from it by intervening topography and tree cover. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS053	Bunker complex, Hatton Rough, Swynnerton	Non-designated	Low	The significance of the asset lies in its historic and evidential value. The construction of Hatton South cutting will require the removal of one of the four bunkers forming the complex. The track pattern linking the bunkers will be rearranged to conform to the proposed Swynnerton Estate North green overbridge. This will result in a loss of appreciation of the asset's significance. Once constructed Hatton South cutting	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				will sever the remaining bunkers from each other, with two to the north and one to the south.					
STSo54	Hatton Rough	Non-designated	Low	The asset lies approximately 170m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo55	Hatton	Non-designated	Low	Construction of Hatton South cutting, associated ponds and improvements to Common Lane (Swynnerton) will require the removal of elements of the landscape features that make up this asset.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo56	Meece Brook	Non-designated	Low	The asset lies immediately outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo57	Bridge at Beech	Listed building	Moderate	The route of the Proposed Scheme will be approximately 1.4km from the bridge, and will not have intervisibility with it. The diverted A51 Stone Road and its junction with the realigned A519 Newcastle Road will be constructed within 1.3km of the bridge but will not be visible from it. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo58	Feature west of Nursery Common	Non-designated	Low	The asset lies within the land required for the Proposed Scheme and will be removed.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo59	Nursery Common	Non-designated	Low	The asset lies approximately 150m outside the land required for the Proposed Scheme and will not be impacted.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo60	Upper Rowe Farm, Stableford	Non-designated	Low	The asset is located approximately 225m away from the land required for the Proposed Scheme. The asset derives its significance from its historic fabric, from its evidential value and from its immediate setting. The asset's setting is defined by the working farmyard within which it lies, which includes large modern agricultural buildings, and the asset also overlooks the West Coast Main Line (WCML). Construction of Hatton South cutting will take place within 450m of the farm. Construction of the realigned Dog Lane will occur within 250m. Once constructed the Proposed Scheme will form a new element in the setting of the farm boxing it in between the existing WCML/A51 Stone Road and the new railway.	Low Low	Temporary Minor Adverse Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo61	Trentham Gardens	Registered park	High	The route of the Proposed Scheme will be more than 2km from the south-western corner of the gardens, although some road improvement elements will be undertaken within 1.8km. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo62	Shelton under Harley, features to south and west	Non-designated	Low	The construction of Hatton north cutting and the realignment of Dog Lane and other roads will require removal of the majority of the former field boundaries.	High	Permanent Moderate Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo63	Shelton under Harley, features to north and east	Non-designated	Low	The In line raising of the Western Power 132kV Overhead Line may impact a small part of these former field boundaries.	Minimal	Permanent Negligible Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo64	South of Dog Lane, Stableford	Non-designated	Moderate	The construction of Hatton South cutting will require the removal of a substantial portion of the asset.	High	Permanent Major Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo65	North of Dog Lane, Stableford	Non-designated	Moderate	The construction of Hatton North cutting and the re-alignment of Dog Lane will require the removal of a substantial portion of the asset.	High	Permanent Major Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo66	Little Stoke	Listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks trunk road and the River Trent. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo67	Oulton Cross	Conservation area, listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks trunk road and the River Trent. There will be no intervisibility with the route. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo68	Coldmeece	Listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away and will be separated from the asset by the existing M6 motorway and screened by the more modern development of Yarnfield village and Coldmeece. There will be no intervisibility with the route. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STS069	Trent and Mersey Canal, north of Stone	Conservation area, listed building	Moderate	The route of the Proposed Scheme will run over 1.5km away beyond the modern suburban growth of Walton, the A34 Stone Road/The Fillybrooks trunk road, M6 and the River Trent. There will be no intervisibility with the route There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS070	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used	Number not used
STS071	Cotes Hall, Cotes Heath	Listed building	Moderate	The route of the Proposed Scheme will be more than 1.7km from the asset and will be screened from it by intervening topography and tree cover. There will be no intervisibility with the route. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS072	Drayton Road Cottages	Listed building	Moderate	The route of the Proposed Scheme will be over 1km away and will be screened by topography and the intervening tree cover of Swynnerton Old Park. There will be no intervisibility with the route. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STS073	Swynnerton Park pleasure grounds and inner park	Non-designated	Moderate	The asset is located adjacent to the land required for the Proposed Scheme. Improvements to Hall Lane will take place adjacent to the inner park boundary wall. This may introduce noise and visual disturbance into the immediate setting of the park. Once	Minimal	Temporary Minor Adverse	No impact upon significance.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				constructed Swynnerton embankment will lie approximately 400m to the east of the inner park screened from it by both the shelter belt at the park edge and planting alongside the embankment. There will be no permanent impact on significance.					
STS074	Swynnerton Old Park outer park	Non-designated	Low	The asset is located within the land required for the Proposed Scheme. Construction of the Proposed Scheme between Swynnerton South cutting and Swynnerton North cutting will introduce construction noise and disturbance to the outer park changing its essentially rural character. Once constructed the scheme will have removed or substantially modified historic elements of the outer park such as Lodge Covert. This will in part be mitigated by mitigation planting along the line of the railway and elsewhere, which will replicate the existing pattern of woodland.	Medium Low	Temporary Minor Adverse Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STS075	Shelton under Harley Farm	Non-designated	Low	The asset is located within the land required for the Proposed Scheme. Construction of Hatton North cutting, the realignment of Bent Lane (South) and construction of Stableford ATS along with associated planting and ponds will take place in close proximity to the farm and will remove a shippon during the realignment works. Once constructed the route of the	Medium Medium	Temporary Minor Adverse Permanent Minor Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
				Proposed Scheme will represent a slight change to the setting of the farm.					
STSo76	Water management features at Aston Farm	Non-designated	Low	Tree planting infilling to the south of the existing woodland abutting the west side of the fishpond and the adjacent track associated with construction of the Proposed Scheme will not affect the significance of these features.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo77	Possible site at Cold Norton Farm	Non-designated	Unknown	Works on the existing rail track between Stone and Stafford will have no effect on the significance of this site.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo78	Former water-meadow at Stone Golf Course	Non-designated	Low	The asset lies within the area of proposed off-route highways and associated works on Yarnfield Lane. The changes will involve provision of three passing bays and localised widening. These works will encroach slightly into this area although are unlikely to damage surviving traces relating to the former water meadows.	Minimal	Permanent Negligible Adverse	The construction effect remains and there will be no further impact from operation of the Proposed Scheme.	No change	Neutral
STSo79	Site of Darlaston Green migrated village	Non-designated	Low	The asset lies approximately 430m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral

Unique identifier	Name	Designation(s)	Value	Construction impact			Operation impact		
				Nature of impact including mitigation	Scale of impact	Effect	Nature of impact including mitigation	Scale of impact	Effect
STSo80	Site of Darlaston Hall	Non-designated	Low	The asset lies approximately 350m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo81	Beech Farm	Non-designated	Low	The asset lies approximately 280m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo82	Swynnerton Old Park	Non-designated	Low	The asset lies approximately 10m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral
STSo83	Blakelow	Non-designated	Moderate	The asset lies approximately 125m outside the land required for the Proposed Scheme. There will be no impact on the significance of the asset.	No change	Neutral	No impact upon significance.	No change	Neutral

2 References

HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Background Information and Data, Cultural heritage survey reports*, BID-CH-004-003. Available online at: www.gov.uk/hs2.

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