

A46 Newark Bypass

TR010065/APP/6.3

6.3 Environmental Statement

Appendix 6.4 Assessment of Cultural Heritage Effects During Operation of the Scheme

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009

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**The Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009**

A46 Newark Bypass

Development Consent Order 202[x]

ENVIRONMENTAL STATEMENT

**APPENDIX 6.3 ASSESSMENT OF CULTURAL HERITAGE EFFECTS
DURING OPERATION OF THE SCHEME**

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1 Assessment of cultural heritage effects during operation

- 1.1.1 The following impact assessment looks at the potential permanent operational impacts on key designated and non-designated heritage assets within the Scheme study area pre-mitigation. Key heritage assets are those assets which have been identified through assessment as having the potential to be affected by the Scheme. For assessing operation phase effects, the baseline year should be chosen to represent the situation prior to any effect arising from opening of the Scheme to traffic. For the historic environment this includes those effects such as the presence, noise and emissions of traffic and presence of lighting and changes to the setting of cultural heritage assets.
- 1.1.2 A gazetteer containing a detailed description of all heritage assets identified within the Scheme study area, alongside drawings showing the location of the assets are contained within Appendix A and B of Appendix 6.1 (Cultural Heritage Desk Based Assessment) (DBA) of the Environmental Statement (ES) Appendices **(TR010065/APP/6.3)**. The assessment detailing which assets have been identified as key heritage assets, including an explanation for the decision is included in Appendix C of Appendix 6.1 (Cultural Heritage DBA) of the ES Appendices **(TR010065/APP/6.3)**.
- 1.1.3 The assessment of effects on key designated and non-designated heritage assets during operation of the Scheme prior to the inclusion of mitigation is outlined below in Table 1-1 and Table 1-2. In accordance with the Design Manual for Roads and Bridges (DMRB), those effects of Moderate to Very Large are significant. Key assets predicted to be significantly affected by the operation of the Scheme are reported in Section 6.11 of Chapter 6 (Cultural Heritage) of the ES **(TR010065/APP/6.1)**.

Table 1-1: Assessment of heritage effects on key designated heritage assets during operation of the Scheme

MM No.	Name	Designation	Description of Impact updated	Value	Magnitude of Impact	Significance of Effect
MM001	Newark Castle	Scheduled Monument	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM007	Civil War redoubt 550m south-east of Valley Farm	Scheduled Monument	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM009	Civil War redoubt 680m north-west of Dairy Farm	Scheduled Monument	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM012	Moated site 750m north-west of Dairy Farm	Scheduled Monument	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM018	Kelham Hall	Grade I Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from a change in ground water levels.	High	No Change	No Change
MM019	Church of St Michael, Averham	Grade I Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from a change in ground water levels.	High	No Change	No Change
MM020	Remains of Newark Castle	Grade I Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM024	Church of St Wilfrid, Kelham	Grade I Listed Building	No change is predicted because the asset is screened from the flood compensation area. Therefore, there will be no adverse impact on the asset's heritage value.	High	No change	No change
MM025	Gazebo and garden wall at Kelham Hall	Grade II* Listed Building	No change is predicted because the asset is screened from the flood compensation area. Therefore, there will be no adverse impact on the	High	No Change	No Change

MM No.	Name	Designation	Description of Impact updated	Value	Magnitude of Impact	Significance of Effect
			asset's heritage value.			
MM026	Langford Hall	Grade II* Listed Building	The increased noise and light pollution from new road infrastructure will affect the appreciation of the rural setting of the asset during operation, which will have an adverse impact on the heritage value on the asset. Landscape bunds and planting will, however, increasingly reduce the effect of changes within the asset's setting as it matures.	High	Negligible	Slight Adverse
MM030	Kiln Warehouse	Grade II* Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM038	Concrete Footbridge Across River Trent	Grade II* Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM039	Winthorpe Bridge Carrying Bypass Over River Trent	Grade II* Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM043	Former Monastic buildings adjoining Kelham Hall	Grade II Listed Building	No change is predicted because the asset is screened from the flood compensation area. Therefore, there will be no adverse impact on the asset's heritage value.	High	No Change	No Change
MM045	Garden boundary wall at Kelham Hall	Grade II Listed Building	The presence of construction machinery during periodic maintenance of the existing field ditch to the south of the asset will temporarily affect the ability to appreciate the rural setting of the asset. This will have an adverse impact on the heritage value of the asset.	High	Negligible	Neutral
MM049	Kelham Bridge	Grade II Listed	No change is predicted because the asset is screened from the flood compensation area.	High	No Change	No Change

MM No.	Name	Designation	Description of Impact updated	Value	Magnitude of Impact	Significance of Effect
		Building	Therefore, there will be no adverse impact on the asset's heritage value.			
MM052	Conservatory at The Grove	Grade II Listed Building	The increased noise and light pollution from new road infrastructure will affect the appreciation of the private garden setting of the asset during operation, which will have an adverse impact on the heritage value on the asset. Landscape planting will, however, increasingly reduce the effect of changes within the asset's setting as it matures.	High	Minor Adverse	Slight Adverse
MM053	Lowwood	Grade II Listed Building	The proximity of the existing A1 and A46 intrudes audibly into the setting of Lowwood House. The noise detracts significantly from a peaceful experience of the property within its setting in contrast with the rural and wooded nature of its surroundings. Noise assessments state that impacts of noise from the A46 will be negligible in the context of existing noise from the A1 and that Scheme design earthworks will block noise from the A1. However, there may be a perception that the operational use of the new Brownhills Junction and new A46 flyover, will give rise to cumulative permanent operational impacts of traffic noise and local authority stakeholders have raised a concern that this perception will result in a degraded experience of the asset which could result in an application for replacement triple glazed windows and consequent loss of historic fabric.	High	Moderate Adverse	Moderate Adverse
MM059	Coach House, to the west of The Stables, at Langford Hall	Grade II Listed Building	The increased noise and light pollution from new road infrastructure will affect the appreciation of the rural setting of the asset during operation, which will have an adverse impact on the heritage value on the asset. Landscape bunds and planting will, however, increasingly reduce the effect of changes within the	High	Negligible	Slight Adverse

MM No.	Name	Designation	Description of Impact updated	Value	Magnitude of Impact	Significance of Effect
			asset's setting as it matures.			
MM061	Stables, to the west of Langford Hall	Grade II Listed Building	The increased noise and light pollution from new road infrastructure will affect the appreciation of the rural setting of the asset during operation, which will have an adverse impact on the heritage value on the asset. Landscape bunds and planting will, however, increasingly reduce the effect of changes within the asset's setting as it matures.	High	Negligible Adverse	Slight Adverse
MM062	The Grove	Grade II Listed Building	Considerably further back and better screened by both walls and planting, than Lowwood or the Church of All Saints, it is considered that the operational impacts will be significantly less.	High	Minor Adverse	Slight Adverse
MM063	Church of All Saints, Winthorpe	GII Listed Building	The current noise levels detract significantly from a peaceful experience of the church within its setting in contrast with the rural village character of its surroundings. Noise assessments state that impacts of noise from the A46 will be negligible in the context of existing noise from the A1. Though there may be a perception that the operational use of the new Brownhill's Junction and new A46 flyover, will give rise to additional impacts of noise and possibly lighting, the impact is unlikely to result in a requirement for replacement windows or similar. Therefore, there is only a minor adverse impact on the significance of the asset, resulting from operational use.	High	Minor Adverse	Slight Adverse
MM065	Seven garden urns at Kelham Hall	Grade II Listed Building	No change is predicted because the asset is screened from the flood compensation area. Therefore, there will be no adverse impact on the asset's heritage value.	High	No Change	Neutral

MM No.	Name	Designation	Description of Impact updated	Value	Magnitude of Impact	Significance of Effect
MM068	Thirty-six railing piers at Kelham Hall	Grade II Listed Building	No change is predicted because the asset is screened from the flood compensation area. Therefore, there will be no adverse impact on the asset's heritage value.	High	No Change	Neutral
MM139	Farndon Windmill	Grade II Listed Building	The impact of noise from the presence of the existing road and flyover has already eroded any peaceful qualities that may have once been experienced within the setting of the mill. Additional road use cannot therefore result in additional impacts. No change	High	No Change	Neutral
MM141	Causeway Arches 650 meters north-west of Level Crossing	Grade II Listed Building	The Causeway Arches serve to carry a road across a floodplain. This function will not change, nor its setting or significance be affected, as a result of the operational use of the Scheme.	High	No Change	Neutral
MM142	The Clock Tower	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM226	Castle Railway Station	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM227	Former Station Master's House at Castle Station	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM228	Causeway Arches 500 meters north-west of Level Crossing	Grade II Listed Building	The Causeway Arches serve to carry a road across a floodplain. This function will not change, or its setting or significance be affected, as a result of the operational use of the Scheme.	High	No Change	Neutral

MM No.	Name	Designation	Description of Impact updated	Value	Magnitude of Impact	Significance of Effect
MM230	Causeway Arches and Embankment Walling 50 meters north-west of Trent Bridge	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM231	Causeway Culvert 135 meters north-west Of Level Crossing	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM389	Causeway Culvert 420 meters north-west of Level Crossing	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM232	Goods Warehouse 150 meters north-east of Castle Station	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM233	North Malt Warehouse	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM332	Trent Bridge	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	Neutral
MM387	The Firs	Grade II Listed Building	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	High	No Change	No Change
MM427	Newark Castle	Grade II	No change is predicted because there will be no	High	No Change	Neutral

MM No.	Name	Designation	Description of Impact updated	Value	Magnitude of Impact	Significance of Effect
	Gardens	Listed Building	adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.			
MM428	Averham Conservation Area	Conservation Area	Flooding of agricultural land within a one in 20 years flood event will temporarily affect the ability to appreciate the rural setting of the asset. This will have an adverse impact on the heritage value of the asset.	Medium	Negligible Adverse	Slight Adverse
MM429	Farndon Conservation Area	Conservation Area	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM430	Kelham Conservation Area	Conservation Area	Flooding of agricultural land within a one in 20 years flood event will temporarily affect the ability to appreciate the rural aspects of the asset and its wider setting. This will have an adverse impact on the heritage value of the asset.	High	Negligible Adverse	Slight Adverse
MM431	Newark Conservation Area	Conservation Area	The increased noise and light pollution from new road infrastructure will affect the appreciation of the quieter, riverfront aspect of the asset during operation. This will have an adverse impact on the heritage value on the asset. Landscape bunds and planting will, however, increasingly reduce the effect of changes within the asset as it matures.	High	Minor Adverse	Slight Adverse
MM432	Winthorpe Conservation Area	Conservation Area	Winthorpe Conservation Area will be unavoidably impacted by the additional road infrastructure – both by the flyover over the A1 and the widened A46 adjacent to the south-east boundary of the conservation area. The additional traffic will result in permanent operational impacts of increased noise, light and movement due to the increased proximity of the road on two sides of the conservation area. This will give rise to permanent negative operational effects on the conservation area.	High	Moderate Adverse	Moderate Adverse

Table 1-2: Assessment of cultural heritage effects on key non-designated heritage assets during operation of the Scheme.

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM502	Mesolithic - Late Neolithic site at Farndon	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM503	Palaeolithic site at Farndon	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM505	Neolithic/early Bronze Age settlement at Langford	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM507	Roman agger, Fosse Way, Langford	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Low	No Change	Neutral
MM541	Settlement at Winthorpe	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM559	Medieval Road at Newark	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM574	Weir at Averham	Non-designated.	Seasonal hydrological changes may raise or lower water levels and affect the preservation of the asset. This will adversely impact on the heritage value of the asset.	Low	Negligible Adverse	Neutral
MM602	Well at Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Low	No Change	Neutral

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM624	Second Line of Circumvallation at Newark	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM627	Well at Kelham	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM633	Well at Averham	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM642	Well at Newark	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM648	Civil War Dam at Newark	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM649	Civil War Redoubt at Newark	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM655	Moll's Hornwork at Winthorpe	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Medium	No Change	Neutral
MM660	First Line Of Circumvallation at Newark	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	No Change	Neutral
MM661	Civil War Redoubt at Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Medium	No Change	Neutral

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM662	Supposed Site of Redoubt at Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Low	No Change	Neutral
MM672	Clapper Gate	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM674	Clapper Gate 5	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM675	Clapper Gate 6	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM678	Clapper Gate 9	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement	Low	No Change	Neutral
MM679	Clapper Gate 10	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM687	Sluice at Winthorpe	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM688	Weir at Newark	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM714	Malthouse Workers at Farndon Road, Newark	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM715	Trent Works; Windsor and Stephenson at Newark.	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral.

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM719	Terraced Houses at Newark	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM736	Flour Mill at Newark	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM740	Malt Kiln Terrace At Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Low	No Change	Neutral
MM747	Railway Bridge at Newark	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM749	Railway Bridge at Newark	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM807	Bleaching House At Winthorpe	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM812	Two Mile House At Langford	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Negligible	No Change	Neutral
MM814	Newark Crossing	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM827	Grounds at Averham Parsonage	Non-designated.	No change is predicted because the asset is screened from the flood compensation area. Therefore there will be no adverse impact on the asset's heritage value.	Low	No Change	Neutral
MM828	Park at Kelham Hall	Non-designated.	Flooding of agricultural land within a one in 20 years flood event will temporarily affect the ability to appreciate the rural aspects of the asset and its	Medium	Negligible Adverse	Slight Adverse

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
			wider setting. This will have an adverse impact on the heritage value of the asset.			
MM829	Grounds at Langford Hall	Non-designated.	The increased noise and light pollution from new road infrastructure will affect the appreciation of the rural setting of the asset during operation. This will have an adverse impact on the heritage value on the asset. Landscape bunds and planting will, however, increasingly reduce the effect of changes within the asset's setting as it matures.	Low	Negligible Adverse	Neutral
MM830	Park at Winthorpe Hall	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	No Change
MM840	Webb Woolies Ltd at Newark	Non-designated.	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	No Change
MM848	RAF Winthorpe	Non - Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	No Change
MM849	Pit Alignment at Newark	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM850	Ditch at Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Low	No Change	Neutral
MM851	Linear Features at Lincoln Road, Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Negligible	No Change	Neutral
MM858	Earthworks at Newark Kiln Marina, Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Low	No Change	Neutral

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM859	Enclosures at Kelham	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM865	Linear Features at Farndon	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM869	Linear Features and Enclosure at Averham	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM872	Spring at Newark	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM876	Cropmark Complex at Newark	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM893	Enclosure at Farndon	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM896	Linear Feature at Newark	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM903	Enclosure and Pits at Newark	Non-Designated	No change is predicted because the asset has been removed during previous construction works.	Low	No Change	Neutral
MM911	Old Trent Dyke	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Low	Negligible Adverse	Neutral
MM912	Palaeochannel associated with the Old Trent Dyke	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM930	Possible enclosure sites and associated archaeological features	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM931	Possible enclosure site, palaeochannel and relict field system	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM932	Possible archaeological feature	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM933	Possible enclosure site and/or relict field system	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM934	Enclosure cropmarks	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM935	Possible archaeological features	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM936	Possible archaeological features	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM937	Possible ring ditch, barrows and ditches	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM938	Possible ditches/field boundaries	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM939	Brick Culvert identified during watching brief orientated east to west	Non-Designated	No change is predicted because the asset will be removed during construction.	Negligible	No Change	Neutral
MM940	Former course of Parish boundary identified during watching brief	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Low	Minor Adverse	Slight Adverse
MM941	Site of Manor House	Non-Designated	No change is predicted because there will be no adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral
MM942	Possible ditches/field boundaries	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM943	Possible ditches and pits	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM944	Possible ditches/field boundaries/pits	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM945	Possible enclosure site and/or relict field system	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM946	Possible ditches/field boundaries/drains	Non-Designated	No change is predicted because the asset will be removed during construction.	Low	No Change	Neutral
MM947	Possible ditches	Non-Designated	No change is predicted because the asset will be truncated during construction and there will be no adverse impact on the remaining asset's heritage value from increased traffic noise and vehicle movement.	Low	No Change	Neutral

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
MM948	Paleochannel on route of ditch	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM949	Organic deposit	Non-Designated	A change in ground water levels may affect the survival of any remaining deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM950	Paleochannel	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM951	Paleochannel	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM952	Paleochannel	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM953	Paleochannel/Organic deposits	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM954	Organic Deposits	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM955	Paleochannel	Non-Designated	A change in ground water levels may affect the survival of deposits associated with the asset. This will adversely impact on the heritage value of the asset.	Medium	Minor Adverse	Slight Adverse
MM956	Paleochannel	Non-	No change is predicted because the asset will be	Medium	No Change	Neutral

MM No.	Name	Designation	Description of impact updated	Value	Magnitude of Impact	Significance of effect
		Designated	removed during construction.			
MM957	Paleochannel	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM958	Paleochannel	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM959	Paleochannel	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM960	Paleochannel	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM961	Paleochannel	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
					No Change	Neutral
MM962	Paleochannel	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM963	Organic Deposits	Non-Designated	No change is predicted because the asset will be removed during construction.	Medium	No Change	Neutral
MM964	Newark Civil War Landscape	Non-Designated	Minimal change is predicted because there will be limited adverse impact on the asset's heritage value from increased traffic noise and vehicle movement.	Medium	Low Adverse	Slight Adverse