

M42 Junction 6 Development Consent Order

Scheme Number TR010027

8.71 Supplementary Environmental Appraisal Report on the proposed non-material changes

Planning Act 2008

Rule 8 (1)(k)

The Infrastructure Planning (Examination Procedure) Rules 2010

Volume 8

October 2019

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Examination Procedure) Rules 2010

M42 Junction 6 Development Consent Order 202[]

Supplementary Environmental Appraisal Report on the proposed non-material changes

Regulation Number	Rule 8(1)(k)
Planning Inspectorate Scheme Reference	TR010027
Document Reference	8.71
Author	M42 Junction 6 Project Team & Highways England

Version	Date	Status of Version
1	11 October 2019	Final for submission for Deadline 6

Table of contents

Chapter	Pages
1 Background	1
2 Purpose of the Document	2
3 Environmental Appraisal	3
4 Change 1: Proposed change to the southern extent of the LoD for Work No. 63 (Severn Trent Aqueduct)	4
4.1 Summary of Environmental Appraisal	4
4.2 Conclusions of the environmental appraisal	4
4.3 Conclusion	7
5 Change 2: Attenuation tank relocation (Work No. 34)	8
5.2 Summary of Environmental Appraisal	8
5.3 Conclusions of the environmental appraisal of change 2	9
5.4 Conclusions	11

List of Tables

Table 4.1: Environmental Appraisal of Change 1	7
Table 5-1: Environmental Appraisal of Change 2	12

Appendices:

- A. Design Information by Severn Trent Water
- B. Revised Works Plan Sheets 3 and 4
- C. Land Plan Sheet 4
- D. Original Works Plan Sheet 2
- E. Revised Works Plan Sheet 2
- F. Land Plan Sheet 2

1 Background

- 1.1.1 The Examining Authority (ExA) as part of informing **Highways England** (the Applicant) of a 'Notification of a change to the Examination Timetable, Notice of procedural decision, notification of hearings and request for further information' **[PD-010]**, published on 13 September 2019 requested the Applicant to provide further justification for the statement in the letter dated 9 August 2019 **[AS-027]** that *"the changes would not give rise to any materially new or materially different significant environmental effects to those reported in the Environmental Statement"*.
- 1.1.2 This Environmental Appraisal considers proposed changes 1 and 2. It is noted that a third request to remove parcels of land from the Scheme was also proposed, but this was not environmentally appraised as it did not involve any new or different development than that already assessed in the Environmental Statement (ES).

2 Purpose of the Document

- 2.1.1 This document and appraisal (herein) provides details of the supplementary environmental appraisal undertaken to inform the Applicant's reasoned opinion that the changes requested were considered non-material, as set out in the non-material change request **[AS-027]**.

3 Environmental Appraisal

- 3.1.1 For each change and each topic, the appraisal considers whether the proposed change would result in a material change, a non-material change or no change to the assessment that was carried out for that topic within the ES.
- 3.1.2 A proposed change to the Scheme is allocated a finding of 'no change' where there would be no potential environmental impact associated with that change;
- 3.1.3 A change is considered to be 'non-material' where it has a potential impact but that impact would not change the findings of the assessment presented in the ES; and
- 3.1.4 A change is considered to be 'material' where it would result in a change in the findings of the assessment and result in a materially new or materially different significant environmental effect).

4 Change 1: Proposed change to the southern extent of the LoD for Work No. 63 (Severn Trent Aqueduct)

- 4.1.1 Design information provided by Severn Trent Water (see Appendix A) shows that its preferred route for the aqueduct diversion (Work No. 63) would be further south than that envisaged in the Scheme to allow greater ease of maintenance once the Scheme is operational.
- 4.1.2 This would necessitate the southern extent of the Limit of Deviation (LoD) for Work No. 63 (see Appendix B) to move further south from parcel 4/4w, into parcel 4/4k (see Appendix C). Both parcels have the same landowner. Parcel 4/4k is already proposed to be used temporarily for the diversion of Western Power Distribution's apparatus, with permanent rights being sought under the DCO "*to construct, operate, access and maintain diversions to existing utilities apparatus and equipment*" [APP-018/Volume 4.1].
- 4.1.3 This proposal would not require additional land take beyond the existing Order limits.

4.1 Summary of Environmental Appraisal

- 4.1.1 Design Change 1 has been reviewed and appraised, as summarised in Table C1, to identify any likely significant effects that would be new or materially different from those presented in the ES.
- 4.1.2 The environmental appraisal for the proposed change is presented for each of the topic chapters in the order they are presented in the ES.
- 4.1.3 Having carried out these appraisals, the Applicant has concluded that **Design Change 1** would not generate significant environmental effects that would be materially new or materially different from those assessed and reported in the ES.
- 4.1.4 In considering the environmental appraisal carried out for this proposed change in combination with the appraisals carried out for the other proposed changes presented in this report, the Applicant has concluded that none of the changes, either individually or collectively, would result in a finding other than one of 'no change' or of a change being 'non-material' in nature. Therefore, it is considered that the proposed changes presented in this report would not result in any likely significant effects that would be materially new or materially different from those reported in the ES.

4.2 Conclusions of the environmental appraisal

- 4.2.1 Qualitative commentary has been provided below where it was identified there was the potential for the proposed change to generate an impact. Where environmental topics (as presented within the ES) are not discussed below, the qualitative appraisal identified that there was limited to no potential for the proposed change to result in impacts. As such, these have been scoped out for further consideration.
- 4.2.2 The proposed change is located within the existing Order limits and study area as assessed within each chapter of the ES.

- 4.2.3 The proposed change would result in a minor change to the construction works and would be managed accordingly through the measures set out within the Construction Environment Management Plan (CEMP) for the Scheme.

Air Quality

- 4.2.4 Professional judgement concluded there would be limited-to-no potential for the re-routing to generate air quality impacts or effects materially different to those identified within the ES during either construction or operation, as best practice management techniques for dust suppression would be applied during the construction phase, and once in-situ, it is reasonable to assume due to nature of the aqueduct's operational activities, these would not generate dust emissions. As such this topic was not considered further in the appraisal.

Cultural Heritage

- 4.2.5 As part of the archaeological investigation for the Scheme, a number of trenches were located in the vicinity of the proposed re-routing corridor (see Archaeological Trenching Report [REP4-004]). The trenching for the Scheme in the vicinity of the proposed re-routing identified artefacts of no more than local importance. Notwithstanding this, in the unlikely event that archaeological assets are identified during construction an archaeological investigation associated with the extension of the LoDs can be appropriately managed using the measures defined within the Archaeological Control Plan [APP-172/Volume 6.11] and in accordance with the Requirements as set out in Schedule 2 of the dDCO.

Landscape and Visual

- 4.2.6 The landscape and visual effects assessed are unlikely to be affected by the re-routing of the aqueduct, as this would be constructed at a depth that would not interfere with proposed landscape planting (shrubs and hedgerows). As such, there would not be a requirement to remove or alter essential mitigation from the Scheme, and therefore no likely material changes to the landscape and visual effect identified within the ES would occur.

Biodiversity

- 4.2.7 Protected species and their associated habitats fall within the re-routing corridor. However, the likely impacts of re-routing this asset are those already identified in the environmental assessment for the Scheme. This is because the re-routing corridor will be located beneath the area identified for the main site compound where mitigation measures for protected species during the construction phase have already been defined within Chapter 9 Biodiversity [APP-054/Volume 6.1] of the ES and included within the Outline Environmental Management Plan and Register for Environmental Actions and Commitments for the Scheme. Further, no additional hedgerows or other ecological features (to those already identified and assessed in the ES) would need to be removed to facilitate the proposed change.

Geology and Soils

- 4.2.8 During construction standard best practice would be applied to control the risk of contamination entering subsoils and as per the original design, the proposed design amendment would be located below ground with the ground surface being reinstated before being returned to the landowner. As such, there would be no additional permanent loss of agricultural land beyond that identified and assessed as part of the ES.

Material Assets and Waste

- 4.2.9 Professional judgement concluded there was limited to no potential for the re-routing to generate impacts or effects materially different to those identified within the ES. This is due to the proposed change having the same aqueduct pipe dimensions, similar quantities of required excavation materials and waste generated (such as packaging and excess construction materials) to that considered within the ES. As such this topic was not considered further in the appraisal.

Noise and Vibration

- 4.2.10 Construction related noise impacts would be typical of below ground maintenance works and would be temporary and localised in nature albeit nearer in proximity to the residents of Bickenhill village. Noise and vibration related construction impacts would be managed in accordance with the measures set out within the CEMP for the Scheme. Due to the nature of the proposed works, it is considered there would be no noise or vibration impacts associated with operational phase of the re-routed aqueduct.

Population and Health

- 4.2.11 Professional judgement concluded there was limited to no potential for the re-routing to generate impacts or effects materially different to those identified within the ES. This is due to the environmental assessment already considering the temporary closure and re-routing of public right of way (PRoW) M106 and concluding that the impact would not give rise to a significant environmental effect. As such this topic was not considered further in the appraisal.

Road Drainage and the Water Environment

- 4.2.12 Due to the existing landform and hydrology of the immediate area of the proposed change, and considering a linear aqueduct is already present below ground to the north which is not considered to inhibit the movement of groundwater in a south to north direction, it is considered the likely impacts of re-routing this asset are those already identified within the environmental assessment for the Scheme. Construction activities regarding water management will be undertaken in accordance with the measures defined within the CEMP.

Climate

- 4.2.13 Professional judgement concluded there was limited to no potential for the re-routing to generate impacts or effects materially different to those identified within the ES because the re-routing will involve substantially the same works as the original proposal. As such this topic was not considered further in the appraisal.

4.3 Conclusion

- 4.3.1 Taking the above into consideration and the form and function of the asset, professional judgement has been applied and concluded that the proposed design amendment would not change the reported environmental effects or generate new significant environmental effects to those presented within the ES. A summary of the Environmental Appraisal is presented in **Table 4-1**.

Table 4-1: Environmental Appraisal of Change 1

ES chapter number	ES chapter heading	Material change/non-material change/ no change	Cumulative effect in combination with non-material Change 2
6	Air Quality	No Change	No Change
7	Cultural Heritage	Non-material change	No Change
8	Landscape and Visual	Non-material change	No Change
9	Biodiversity	Non-material change	No Change
10	Geology and Soils	Non-material change	No Change
11	Material Assets and Waste	No Change	No Change
12	Noise and Vibration	Non-material change	No Change
13	Population and Health	No Change	No Change
14	Road Drainage and the Water Environment	Non-material change	No Change
15	Climate	No Change	No Change

- 4.3.2 As the proposed change would not result in any change to the conclusions of the individual ES chapters, it is considered that the proposed change would not result in any additional in-combination or cumulative impacts to those presented in Chapter 16 Assessment of Cumulative Effects of the ES **[APP-061/Volume 6.1]**. On this basis, the findings of Chapter 16 of the ES remain as reported.

5 Change 2: Attenuation tank relocation (Work No. 34)

- 5.1.1 Following discussions with landowners and the local parish council, it is also proposed to change the location of, Work No. 34 (see Appendix D), a highway drainage attenuation tank, from the north western quadrant of Barber's Coppice Roundabout to the south western quadrant (see Appendix E). The proposed attenuation tank would require periodic maintenance in order to ensure that the attenuation tank continues to work at optimum performance. This periodic maintenance would require a vehicle to park near to the attenuation tank in order to enable personnel to access, inspect and maintain the tank.
- 5.1.2 In its existing location, the provision of a layby off the B4438 Realigned Catherine-de-Barnes Lane would be in close proximity to Barber's Coppice Roundabout where vehicles are leaving the roundabout travelling northbound. This location raises the following safety and operational concerns for the positioning of a maintenance layby:
- The lay by would be positioned whereby vehicles leaving the roundabout travelling northbound would be expecting vehicles ahead to be accelerating, not braking and undertaking a slow turning movement into a maintenance layby; and
 - The position of the maintenance layby would be in a section of the Realigned Catherine-de-Barnes Lane where two lanes would be merging into one lane for vehicles travelling northbound. Subsequently vehicles merging into a single lane may be interrupted by a maintenance vehicle turning into the maintenance lay by.
- 5.1.3 As a result, the Applicant has proposed to move the attenuation tank to an area of land (parcel 2/10j and part of 2/71) (see Appendix F) which are already proposed to be acquired permanently to create new highway land, although they are outside the current LoD for Work No. 34.
- 5.1.4 The location has been proposed to mitigate the issues raised above by moving the attenuation tank south of Barber's Coppice Roundabout, where traffic would be decelerating on approach to the roundabout. Furthermore, the northbound lane on approach to the roundabout would expand to two lanes, reducing the risk of maintenance vehicles turning into a layby interfering with northbound traffic approaching the roundabout.
- 5.1.5 Alternative locations to the provision of a maintenance lay by on the Realigned B4438 Catherine-de-Barnes Lane were investigated using the road off Barber's Coppice Roundabout serving Four Winds, Birmingham Dogs Home and the Solihull Music School. However, an additional private means of access positioned close to the roundabout may risk access to these properties and commercial enterprises being temporarily disrupted.

5.2 Summary of Environmental Appraisal

- 5.2.1 Design Change 2 has been reviewed and appraised, as summarised in Table C2 below, to identify any likely significant effects that would be new or materially different from those presented in the M42 Junction 6 Scheme ES.

- 5.2.2 The environmental appraisal for the proposed change is presented for each of the topic chapters in the order they are presented in the ES.
- 5.2.3 For each topic, the appraisal then confirms whether the proposed change would result in a material change, a non-material change or no change to the assessment for that topic within the ES.
- 5.2.4 A proposed change to the Scheme is allocated a finding of 'no change' where there would be no potential environmental impact associated with that change. A change is considered to be 'non-material' where it has a potential impact but that impact would not change the magnitude or the scope of the findings of the assessment presented in the ES; and a change is considered to be material where it would result in a significant change in magnitude, the scope or the findings of the assessment (i.e. would result in a new or materially different significant environmental effect). Having carried out the appraisal, the Applicant has concluded that the change, would not generate significant environmental effects that would be new or materially different from those assessed and reported in the ES.
- 5.2.5 In considering the environmental appraisal carried out for this proposed change in combination with the appraisals carried out for the other proposed changes presented in this report, the Applicant has concluded that none of the changes, either individually or collectively, would result in a finding other than one of 'no change' or of a change being minor or 'non-material' in nature. Therefore, it is considered that collectively, or cumulatively, the proposed changes presented in this report would not result in any likely significant effects that would be new or materially different from those reported in the ES.

5.3 Conclusions of the environmental appraisal of change 2

- 5.3.1 Qualitative commentary has been provided below where it was identified there was the potential for the proposed change to generate an impact on an environmental topic (as presented within the ES). Where environmental topics are not discussed below, the qualitative appraisal identified that there was limited to no potential for the proposed change to result in impacts that warranted further consideration.
- 5.3.2 Change 2 would result in a minor change to the construction works and would be managed accordingly through the measures set out within the CEMP for the Scheme.
- 5.3.3 The proposed design amendment would be located within the respective study areas for each of the assessments already completed and presented in the environmental assessment for the Scheme. However, a small portion (221m²) of the relocated tank would be situated outside the LoD for the Scheme but within the Order limits and an area demarcated for landscape planting (see Figure 8.3 of the ES) [APP-090/Volume 6.2].

Air Quality

- 5.3.4 Professional judgement concluded there was limited to no potential for the re-routing to generate impacts or effects materially different to those identified within the ES, during either construction or operation, as best practice management techniques for dust suppression would be applied during the construction phase, and once in-situ, it is reasonable to assume due to nature of the attenuation tanks operational activities, these would not generate dust emissions. As such this topic was not considered further in the appraisal.

Cultural Heritage

- 5.3.5 It is considered that the area of the proposed relocated tank would be highly unlikely to have in-situ archaeological finds given its proximity to the existing Catherine-de-Barnes road alignment and the associated roadside verge. However, in the unlikely event that archaeological assets are identified during construction an archaeological investigation can be appropriately managed using the measures defined within the Archaeological Control Plan [APP-172/Volume 6.11] and in accordance with the Requirements as set out in Schedule 2 of the dDCO.

Landscape and Visual

- 5.3.6 The appraisal identified there would be no material change to the visual screening proposed around the location of the proposed relocated tank. The form and function of woodland edge planting would remain as intended and presented within the ES. As such this topic was not considered further in the appraisal.

Biodiversity

- 5.3.7 No notable species or habitats are located within immediate proximity of the proposed relocation area. Notwithstanding this, pre-construction surveys will be undertaken in line with those outlined within the OEMP to minimise the potential to disturb species or habitat. The relocation of the tank would require minor amendments to the proposed planting type/indicative species to allow for maintenance. However, these are not considered to be of a sufficient change to alter the proposed habitat mitigation or its intended ecological function or give rise to significant environmental effects not already identified within the ES.

Geology and Soils

- 5.3.8 Professional judgement concluded there was limited to no potential for the relocation to generate impacts or effects materially different to those identified within the ES, as standard best practice would be applied during construction to control the risk of contamination of subsoils and top soils would be reinstated and be utilised where possible for landscape planting. As such this topic was not considered further in the appraisal.

Material Assets and Waste

- 5.3.9 Professional judgement concluded there was limited to no potential for the relocation to generate impacts or effects materially different to those identified within the ES. This is due to the proposed change having the same tank dimensions, similar quantities of required excavation materials and waste generated (such as packaging and excess construction materials) to that considered within the ES. As such this topic was not considered further in the appraisal.

Noise and Vibration

- 5.3.10 Professional judgement concluded there was limited to no potential for the relocation to generate impacts or effects materially different to those identified within the ES. The construction activities related to the relocated tank would be slightly further away from the nearest noise sensitive receptor (Four Winds) and due to the nature of the operational activities associated with below ground attenuation tanks no noise or vibration related impacts are considered likely. As such this topic was not considered further in the appraisal.

Population and Health

- 5.3.11 The relocation of the attenuation tank would result in no additional or change to severance, impact to businesses or changes to health. As such, it is considered the likely impacts of re-routing this asset are those already identified within the environmental assessment for the Scheme. As such this topic was not considered further in the appraisal.

Road Drainage and the Water Environment

- 5.3.12 The minor amendment to the relocation of the attenuation tank would not change the proposed water treatment regime to a degree that it would generate impacts or effects materially different to those identified within the ES. As such this topic was not considered further in the appraisal.

Climate

- 5.3.13 Professional judgement concluded there was limited to no potential for the re-routing to generate impacts or effects materially different to those identified within the ES because the relocation will involve substantially the same works as the original proposal. As such this topic was not considered further in the appraisal.

5.4 Conclusions

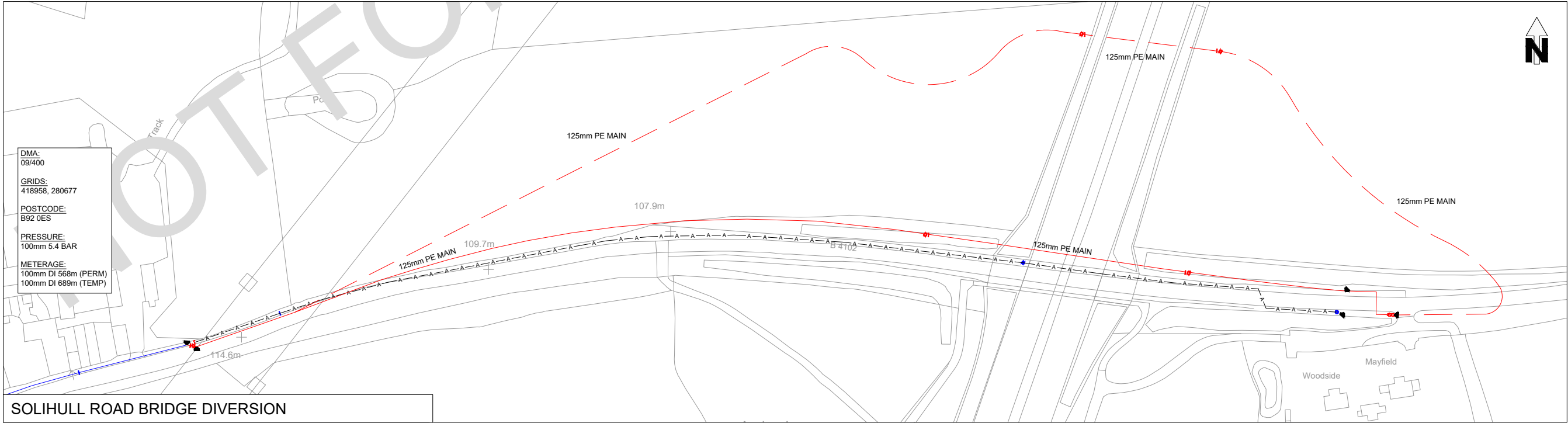
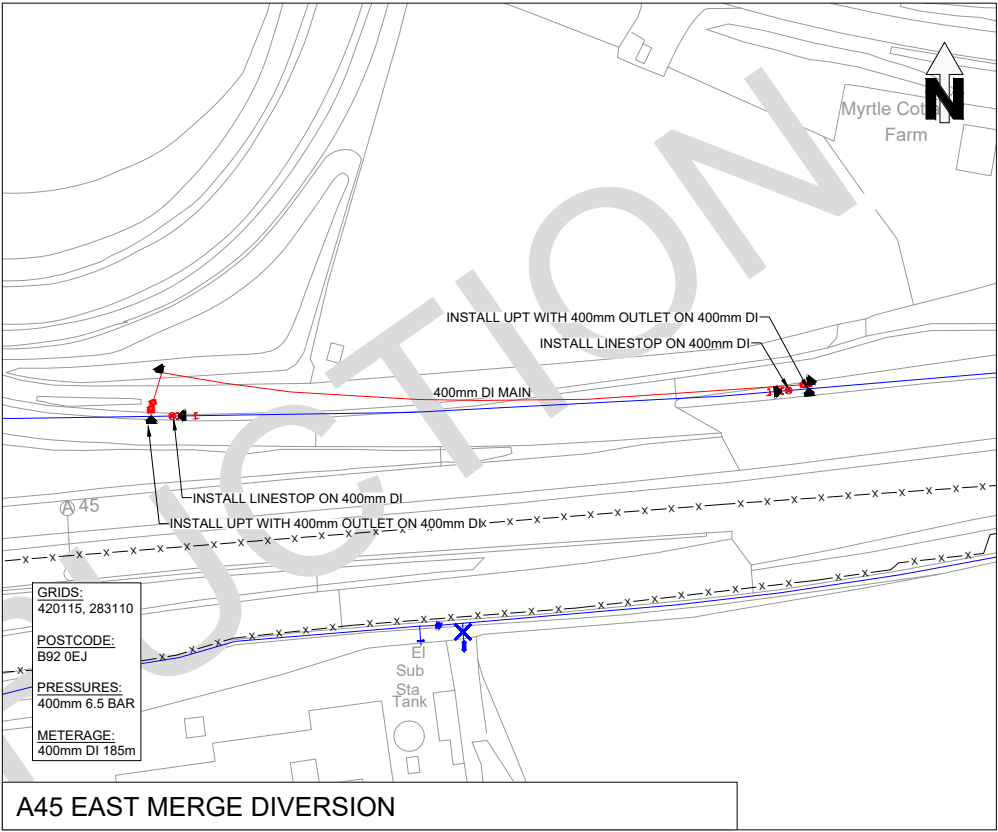
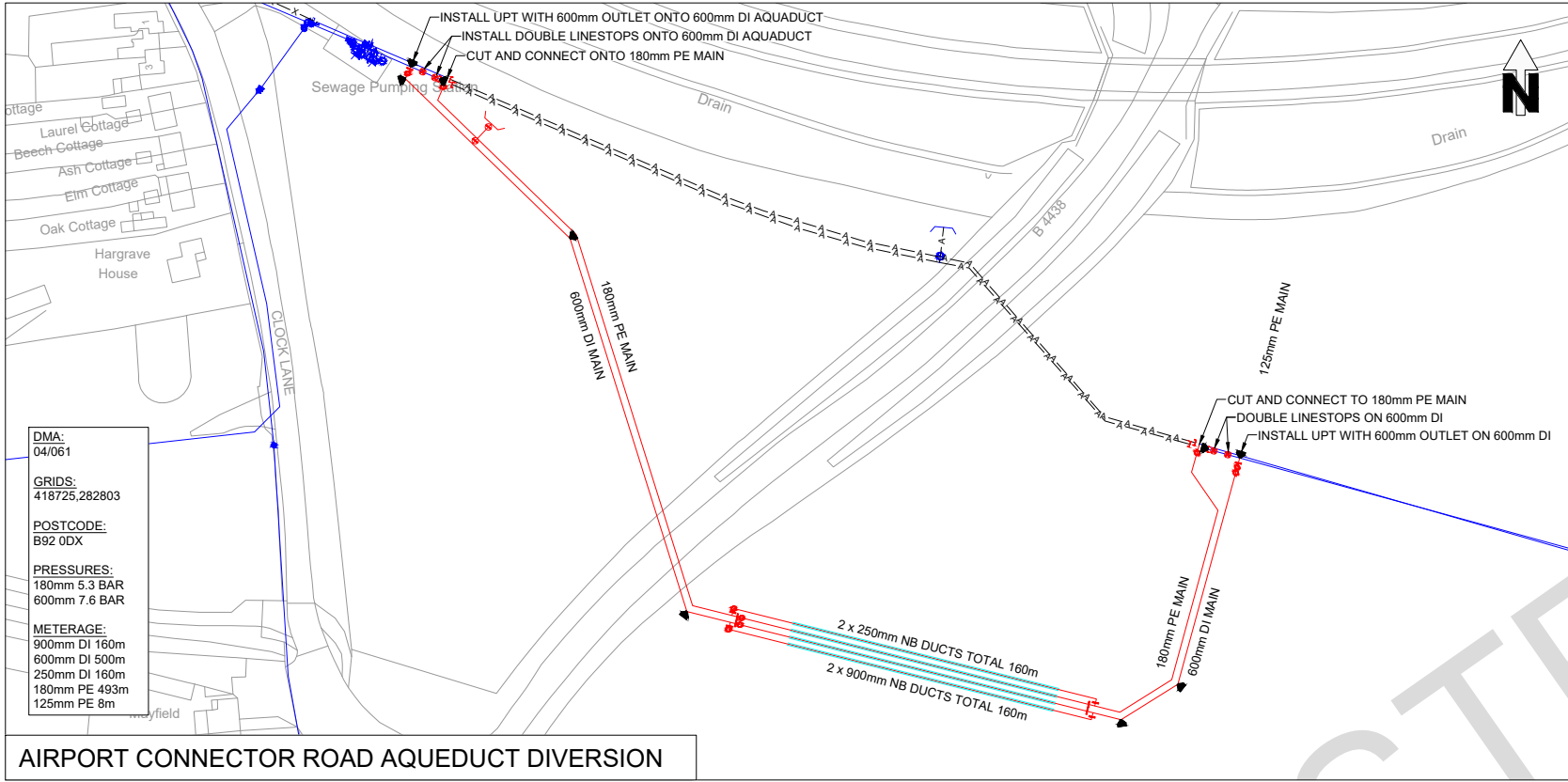
- 5.4.1 Taking the above into consideration and the form and function of the asset, professional judgement has been applied and concluded that the proposed design amendment would not change the reported environmental effects or generate new significant environmental effects to those presented within the ES. A summary of the Environmental Appraisal is presented in **Table 5-1**.

Table 5-1: Environmental Appraisal of Change 2

ES chapter number	ES chapter heading	Material change/non-material change/no change	Cumulative effect in combination with non-material Change 1
6	Air Quality	No Change	No Change
7	Cultural Heritage	Non-material change	No Change
8	Landscape and Visual	Non-material change	No Change
9	Biodiversity	No Change	No Change
10	Geology and Soils	No Change	No Change
11	Material Assets and Waste	No Change	No Change
12	Noise and Vibration	No Change	No Change
13	Population and Health	No Change	No Change
14	Road Drainage and the Water Environment	No Change	No Change
15	Climate	No Change	No Change

5.4.2 As the proposed change would not result in any change to the conclusions of the individual ES chapters, it is considered that the proposed change would not result in any additional in-combination or cumulative impacts to those presented in Chapter 15: Climate of the ES [APP-060/Volume 6.1]. On this basis, the findings of Chapter 15 of the ES remain as reported.

Appendix A - Design Information by Severn Trent Water



COPYRIGHT
The material contained within this drawing has been reproduced by permission of Ordnance Survey on behalf of HMCO (© Crown Copyright and database right 2004). All rights reserved. Ordnance Survey license number 100016202. Document users, other than Severn Trent Water Business users, are advised that this document is provided for reference purposes only and no further copies should be made from it.

DISCLAIMER
Do not scale off this drawing. This plan and any information supplied with it is furnished as a general guide, is only valid at the date of issue and no warranty as to its correctness is given or implied. In particular this plan and any information shown on it must not be relied upon in the event of any works (including but not limited to excavations) in the vicinity of SEVERN TRENT WATER assets or for the purposes of determining the suitability of a point of connection to the sewerage or distribution systems.

KEY	
MAINS	FITTINGS
LEGEND DESCRIPTION D.D. Directional Drilling D.P. Deep P.B. Pipeburst S.S. Siphon L.D. Lay Only S.C. Self Construct T.B. Temp Bypass E.M. Existing Mains A Abandon	LEGEND DESCRIPTION H.M. Highlighted main A.V. Air Valve M. Meter H. Hydrant W. Washout K.S.V. K.S.V. V. Valve P.R.V. P.R.V. R.R.V. R.R.V. P.S. Pumping Station

KEY	
SERVICES	DESCRIPTION
E.S. Existing Service	
M. Meter	
P.S. Pipe Sample	
T.B. Thrust Block	
T.H. Trial Hole	
U.L. Unable To Locate	
S.B. Site Border	
P.F. Proposed Fittings	
E.F. Existing Fittings	
A.F. Abandon Fittings	
L. Linestop	

CONSULT ALL UTILITY PLANS BEFORE ANY EXCAVATION

CUSTOMER CARE
Amey HOTLINE: 0800 521 660
STW CALL CENTRE: 0800 783 4444

CONSTRUCTION NOTES

- ROUTE OF MAINS IS INDICATIVE
- TRAFFIC MANAGEMENT REQUIREMENT TO BE DETERMINED BY SLP
- LOCKING HYDRANT CAPS ARE BEING ADDED TO THE NETWORK. RED SIGNIFIES OPERATIONAL DISCOLORATION RISK, CALL 0800 - 783 - 4444 FOR AUTHORISATION TO USE
- CRITICAL LOGGERS ARE LOCATED IN FIRE HYDRANTS, WASHOUTS, METER CHAMBERS AND BOUNDARY BOXES. IF A LOGGER IS ENCOUNTERED CONTACT GARY WATTS ON MOB:07789 903 479
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH STW STANDARD DETAILS AND DESIGN MANUALS:
 - STD5020 - FIRE HYDRANT / WASHOUT
 - STD5021 - FIRE HYDRANT / WASHOUT OFF-LINE
 - STD5040 - SLUICE VALVE & CHAMBER - DN80 - DN300
 - STD5043 - SLUICE VALVE CHAMBER WITHOUT BYPASS
 - STD5044 - SLUICE VALVE CHAMBER WITH BYPASS
 - STD5071 - SERVICE CONNECTIONS - BOUNDARY BOX
 - STD5072 - SERVICE UTILITIES - RECOMMENDED POSITIONING IN A 2m FOOTWAY
- ENSURE EXCAVATED CONTAMINATED LAND IS DISPOSED OF AT A LICENSED TIP
- WITHIN CONTAMINATED LAND, ENSURE ALL PIPES AND FITTINGS ARE BARRIER PIPE OR DUCTILE IRON
- STW REQUESTED BARRIER PIPE NO SOIL REPORT PROVIDED

ASSUMPTIONS

- THE ROUTES SHOWN ARE INDICATIVE
- THE DESIGN IS SUBJECT TO CHANGE PENDING RESULTS OF REQUEST FOR INFORMATION (RFIs) OR SITE INVESTIGATION (SI)
- ADDITIONAL TRIAL HOLES MAY BE REQUIRED ON SITE TO CONFIRM GROUND CONDITIONS, MAIN CONDITIONS OR UNDERGROUND ASSETS
- THE DIVERTED MAINS ARE DESIGNED LIKE FOR LIKE WITHOUT FURTHER SI
- ADDITIONAL AIR VALVES MAY BE REQUIRED WHICH HAVE NOT BEEN IDENTIFIED DUE TO TOPOLOGY OR UTILITIES
- DUCTING TO BE UNDERTAKEN BY AMEY
- NO ADDITIONAL CONSENT REQUIREMENTS
- RENEWED SERVICES TO BE CONFIRMED ON SITE
- ALL RELEVANT ECOLOGICAL SURVEYS TO BE UNDERTAKEN BY OTHERS AND COMMUNICATED PRE-CONSTRUCTION
- THERE ARE NO ARCHAEOLOGICAL RESTRICTIONS
- TEMPORARY WORKS ARE TO BE UNDERTAKEN BY OTHERS
- WORKING WITHIN THE DEVELOPER'S CONSTRUCTION, DESIGN AND MANAGEMENT (CDM) AND TRAFFIC MANAGEMENT (TM)
- THE DEVELOPER WILL PROVIDE MEANS FOR DIVERSION OF THE CLEAN WATER MAINS PRE-CONSTRUCTION IE BRIDGE CROSSINGS
- SIGNIFICANT HAZARDS WILL BE IDENTIFIED AT DETAILED DESIGN
- USE DEVELOPER'S PRIVATE LAND NOTICES FOR ACCESS / EGRESS
- PRIVATE LAND NOTICES FOR CONSTRUCTION / ASLAI REQUIRED
- CATHODIC PROTECTION TO BE INSTALLED OR REINSTATED AS EXISTING
- CONSULT WITH BIRMINGHAM AIRPORT TO DETERMINE IF THERE ARE ANY RESTRICTIONS IE PREFER USE OF NON-REFLECTIVE EQUIPMENT

ALL VALVES TO BE ANTI-CLOCKWISE CLOSE

A	22.11.18	INITIAL ISSUE	JC
REV	DATE	REVISION COMMENTS	INI

FOR INFORMATION

WEST MIDLANDS FIRE SERVICE	Water Office West Midlands Fire Service 99 Vauxhall Road Birmingham B7 4HW
ameyconsulting	Amey International Design Hub The Colmore Building 20 Colmore Circus, Queensway Birmingham, B4 6AT Web: www.amey.co.uk
SEVERN TRENT	SEVERN TRENT WATER Ltd One Supply Chain West Lambridge Lane Shifnal Shropshire TF11 8SD

SEVERN TRENT WATER AMP6 DESIGN & BUILD COMPLEX

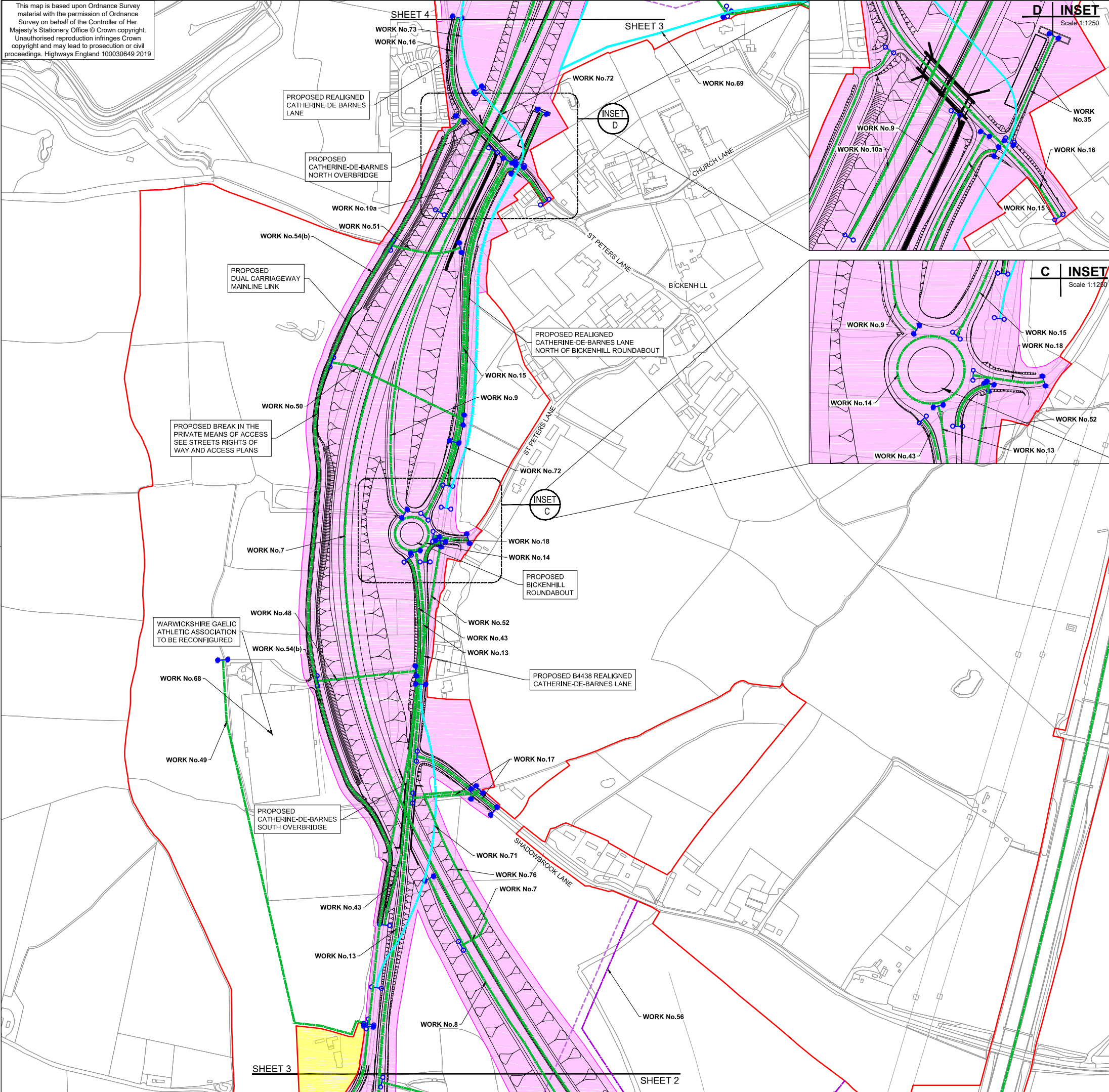
M42 JUNCTION 6

SAP Reference:	8329230	Project Reference:	A6W/12215/04/01/12-CY-0101
Q.S. Ref at CoP:	AS SHOWN	PCode:	B92
Disco. Risk (Not RBC)	7.6	Area:	SOUTH
Scale:	NTS	Size:	A1
Checked:			

Signature and Date:

Appendix B - Revised Works Plan Sheets 3 and 4

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649 2019



NOTES

- ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
- DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
- THE PROPOSED WORKS SHOWN ARE ILLUSTRATIVE ONLY AND WILL BE SUBJECT TO CHANGE AS PART OF DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER.
- WORKS ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) OF THE DEVELOPMENT CONSENT ORDER [TR010027/APP/3.1].
- THESE WORK PLANS SHOULD BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE LAND PLANS [TR010027/APP/2.2] AND THE ENGINEERING DRAWINGS AND SECTIONS [TR010027/APP/2.8].

DRAFT

KEYPLAN

First Issue	WC	05/08/19	P01
Update to Work No.63 Limits of Deviation	JCH	07/08/19	P02
Revision Details	By	Date	Suffix
	Check		

Purpose of issue

FOR INFORMATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
B4 6BN

Development Consent Order Number
TR010027

Project Title
M42 JUNCTION 6 IMPROVEMENT

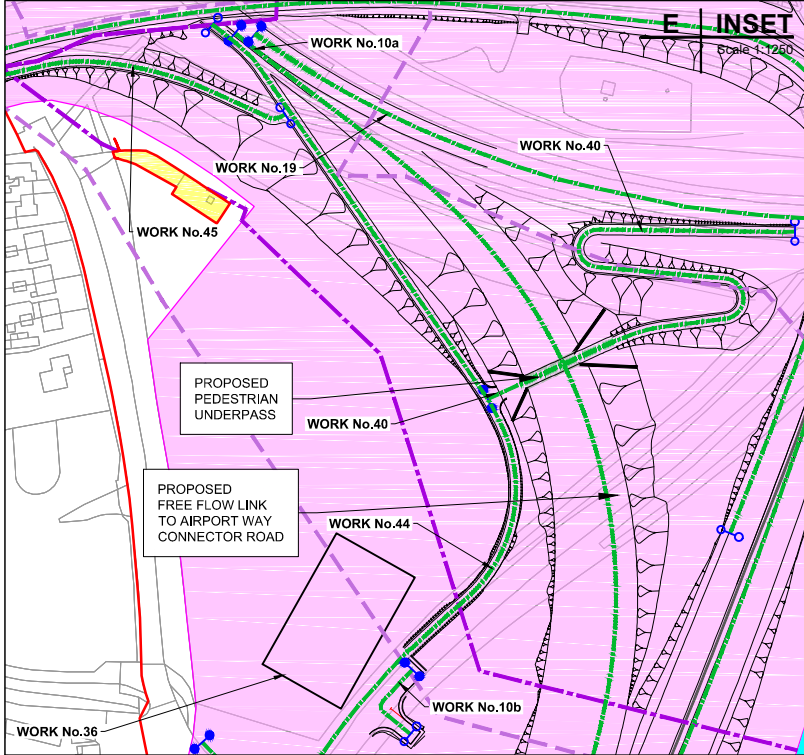
Drawing Title
WORKS PLANS
REGULATION 5(2)(J)
SHEET 3 OF 7

Designed JCH	Drawn JCH	Checked ME	Approved LJB	Date 07/08/19
Internal Project No. 60543032	Suitability S2			
Scale @ A1 1:2500	Zone Scheme Wide General			

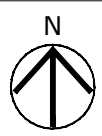
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

Drawing Number Highways England PIN HE551485	Originator -ACM	Volume -GEN-	Rev P02
Location ZZ_SW_DCO_ZZ	Type 1	Role 1	Number -DR-DC-2303

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649 2019

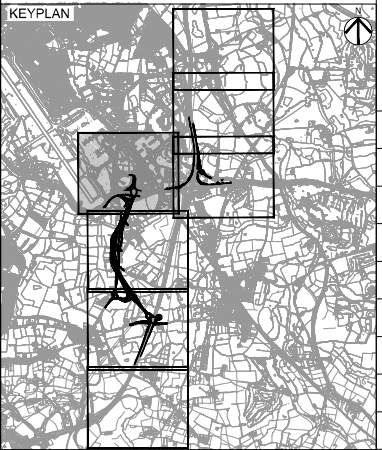


LEGEND	
	LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY (THE ORDER LIMITS)
	LIMITS OF LAND TO BE ACQUIRED TEMPORARILY FOR SIGNAGE INSTALLATION
	LAND NOT INCLUDED WITHIN THE ORDER LIMITS
	COMMENCEMENT OF LINEAR WORKS (APPROX)
	TERMINATION OF LINEAR WORKS (APPROX)
	HIGHWAY WORK CENTERLINE (APPROX)
	TEMPORARY ROAD CENTERLINE (APPROX)
	TEMPORARY SITE COMPOUND
	UTILITY DIVERSION CENTERLINE (APPROX)
	UTILITY DIVERSION LIMITS OF DEVIATION
	LIMITS OF DEVIATION
	PROPOSED GANTRY LIMITS OF DEVIATION
	GANTRY TO BE REMOVED
	EXISTING GANTRY TO BE ALTERED
	PROPOSED EMERGENCY REFUGE AREA LIMITS OF DEVIATION
	EMERGENCY REFUGE AREA TO BE REMOVED
	PROPOSED STRUCTURE
	ALTERATION OF PORTAL GANTRY
	ALTERATION OF CANTILEVER GANTRY
	TYPE 1
	TYPE 2
	TYPE 3
	TYPE 4
	TYPE 5
	TYPE 6



- NOTES
1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
 2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
 3. THE PROPOSED WORKS SHOWN ARE ILLUSTRATIVE ONLY AND WILL BE SUBJECT TO CHANGE AS PART OF DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER.
 4. WORKS ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) OF THE DEVELOPMENT CONSENT ORDER [TR010027/APP/3.1].
 5. THESE WORK PLANS SHOULD BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE LAND PLANS [TR010027/APP/2.2] AND THE ENGINEERING DRAWINGS AND SECTIONS [TR010027/APP/2.8].

DRAFT



First Issue	WC	05/08/19	P01
Update to Work No.63 Limits of Deviation	JCH	07/08/19	P02
Revision Details	By	Date	Suffix
	Check		

FOR INFORMATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
B4 6BN



Development Consent Order Number
TR010027

Project Title
M42 JUNCTION 6 IMPROVEMENT

Drawing Title
WORKS PLANS
REGULATION 5(2)(J)
SHEET 4 OF 7

Designed	Drawn	Checked	Approved	Date
JCH	JCH	ME	UB	07/08/19
Internal Project No.	Suitability			
60543032	S2			
Scale @ A1	Zone			
1:2500	Scheme Wide General			

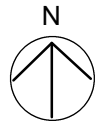
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

Drawing Number	Highways England PIN	Originator	Volume	Rev
HE551485	-ACM	-GEN-		P02
ZZ_SW_DCO_ZZ	-DR-DC-2304			
Location	Type	Role	Number	

Plot Date: 09 August 2019 15:20:25
File Name: C:\P\WORKING\AECOM_EU\JAMES HEININGWAY\0070827\HE051485-ACM-GEN-ZZ_SW_DCO_ZZ-DC-2304

Appendix C - Land Plan Sheet 4

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649 2018



- NOTES
1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
 2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
 3. ALL EASEMENTS, SERVITUDES AND PRIVATE RIGHTS ARE PROPOSED TO BE EXTINGUISHED ON LAND THAT IS TO BE ACQUIRED UNLESS STATED OTHERWISE IN THE BOOK OF REFERENCE.
 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE WORK PLANS (TR010027/APP2.3) AND THE BOOK OF REFERENCE (TR010027/APP4.3).

- LEGEND
- LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY (THE ORDER LIMITS)
 - ← 1/1 PLOT REFERENCE NUMBER (REFER TO BOOK OF REFERENCE FOR FURTHER INFORMATION)
 - LAND NOT INCLUDED WITHIN THE ORDER LIMITS
 - LAND TO BE ACQUIRED PERMANENTLY
 - LAND TO BE USED TEMPORARILY
 - LAND TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY
 - NO POWERS SOUGHT IN DCO



First Issue	IM	CW	14/12/18	C01
Revision Details	By	Check	Date	Suffix

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
B4 6BN



Development Consent Order Number
TR010027

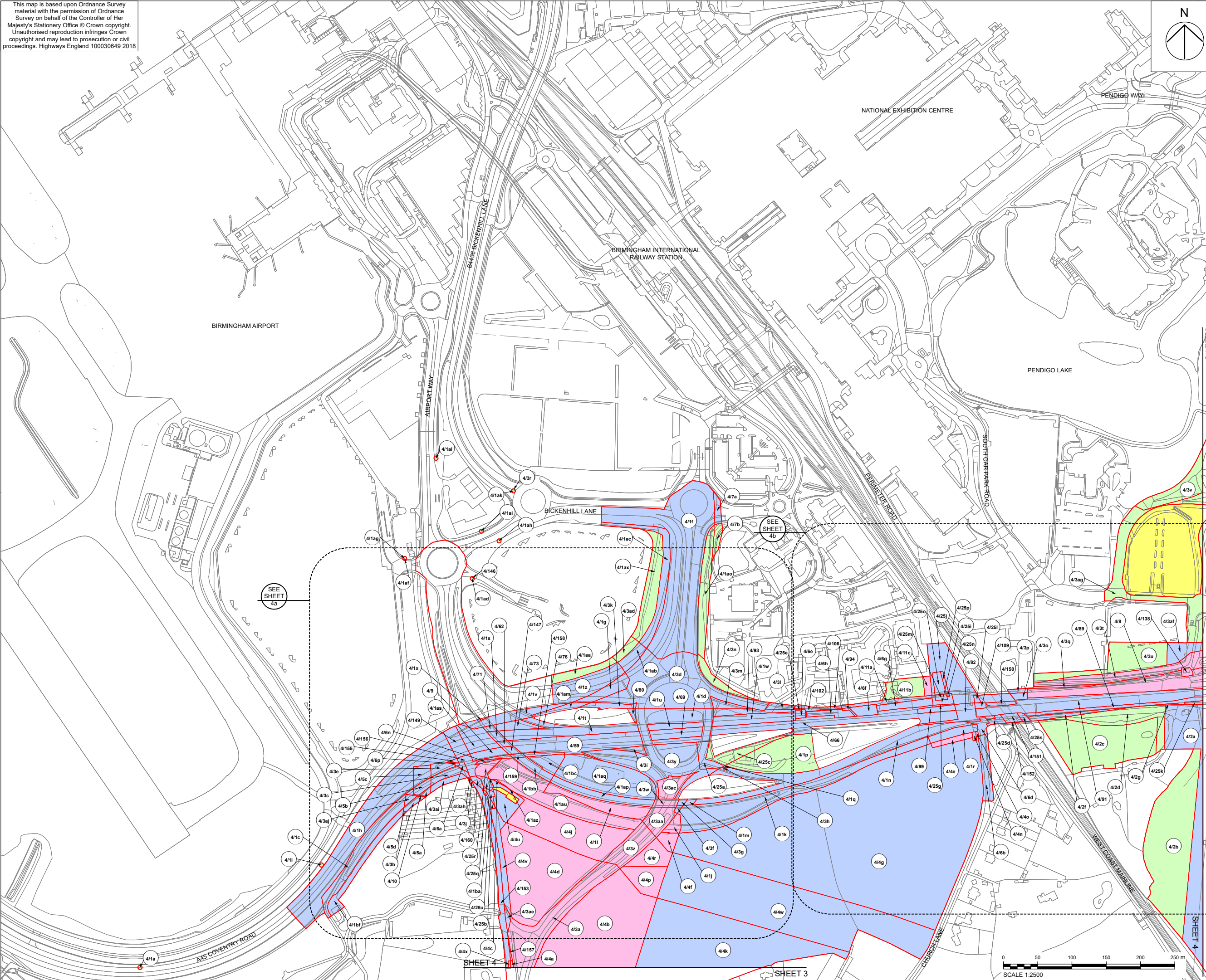
Project Title
M42 JUNCTION 6 IMPROVEMENT

Drawing Title
LAND PLANS
REGULATION 5(2)(i)
SHEET 4 OF 7

Designed MW	Drawn IM	Checked CW	Approved IJB	Date 14/12/2018
Internal Project No. 60543032	Suitability D7	Scale @ A1 1:2500	Zone Scheme Wide General	

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

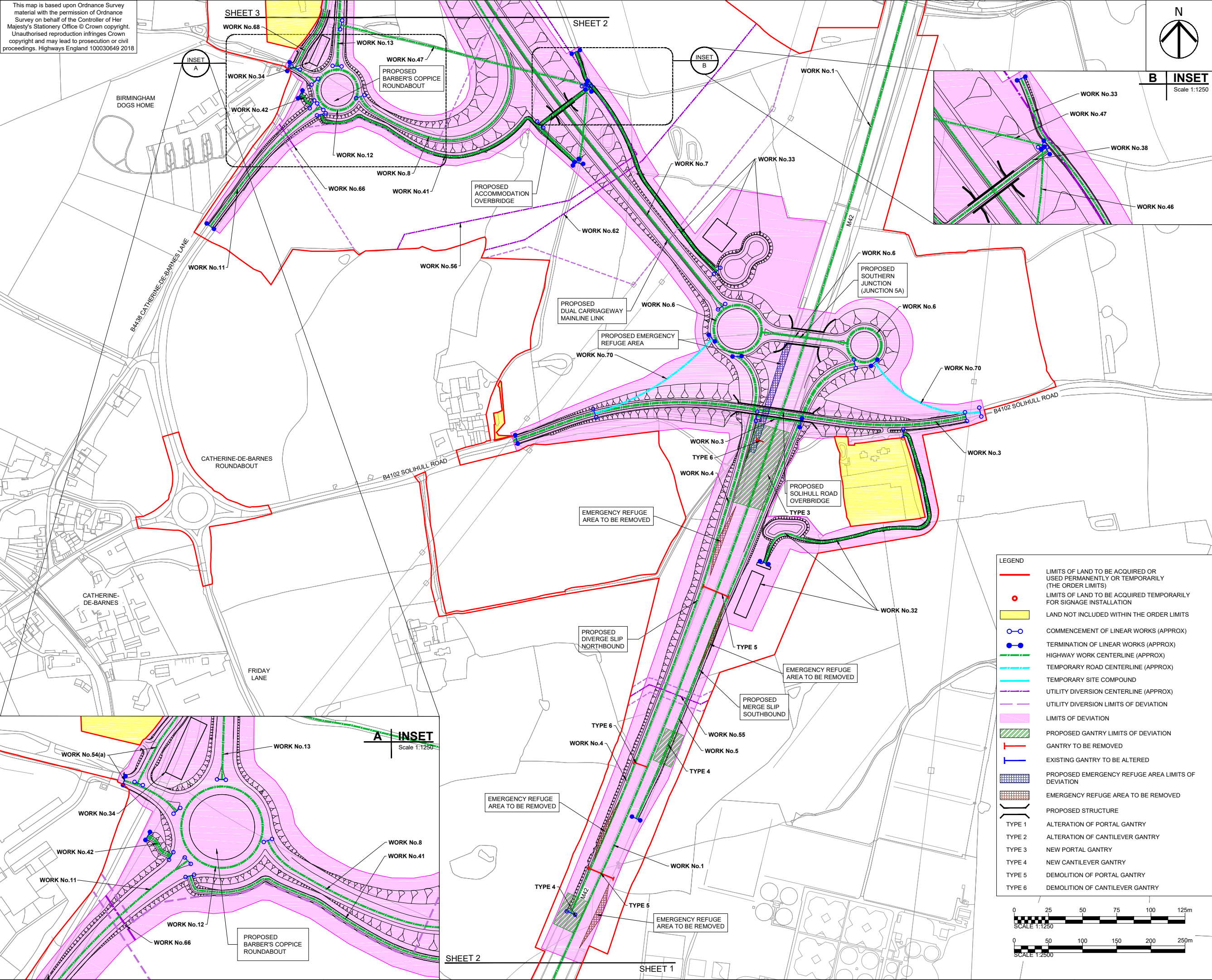
Drawing Number HE551485 -ACM	Originator -GEN-	Volume ZZ_SW_DCO_ZZ	Local	Rev C01



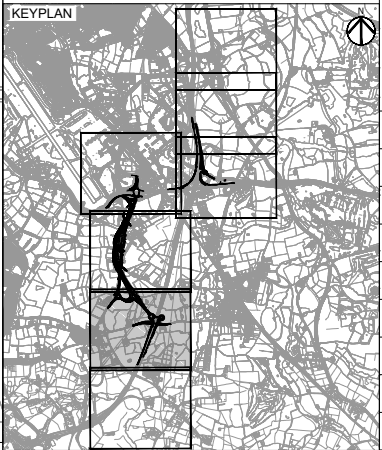
Plot Data: Friday, December 14, 2018 8:49:14 PM
File Name: D:\Munich\Ardent\M42_Junction_6\M42_Land_Plans\20181214\HE551485-ACM-GEN-ZZ_SW_DCO_ZZ.DR.DC-2204.mxd

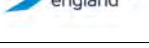
Appendix D - Original Works Plan Sheet 2

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649 2018



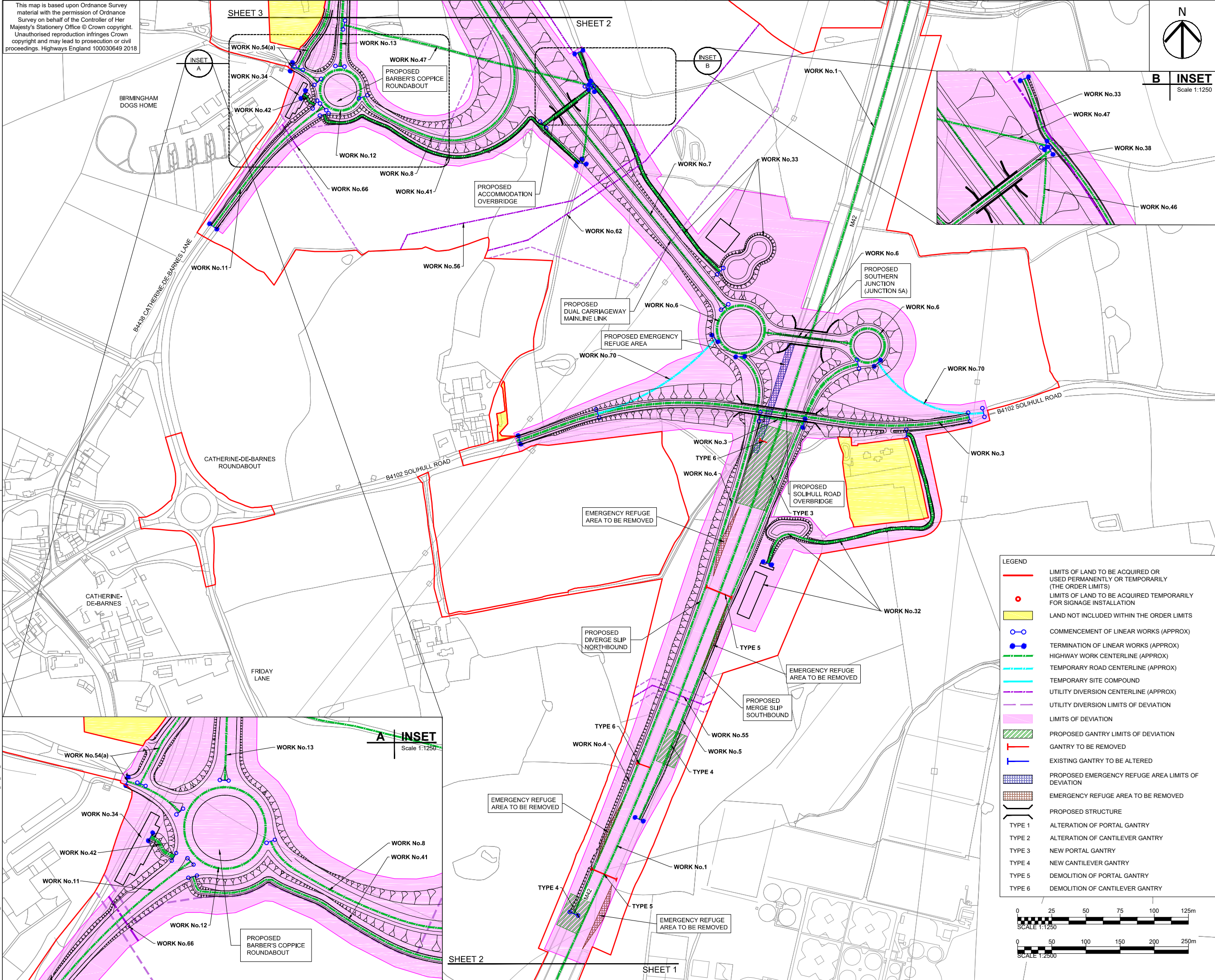
- NOTES
1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
 2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 3. THE PROPOSED WORKS SHOWN ARE ILLUSTRATIVE ONLY AND WILL BE SUBJECT TO CHANGE AS PART OF DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER.
 4. WORKS ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) OF THE DEVELOPMENT CONSENT ORDER [TR010027/APP/3.1].
 5. THESE WORK PLANS SHOULD BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE LAND PLANS [TR010027/APP/2.2] AND THE ENGINEERING DRAWINGS AND SECTIONS [TR010027/APP/2.8].



First Issue		WC	17/12/18	C01
Revision Details		By	Check	Suffix
Purpose of issue				
DCO APPLICATION				
Client Highways England Floor 5 Two Colmore Square 38 Colmore Circus B4 6BN				
				
Development Consent Order Number				
TR010027				
Project Title				
M42 JUNCTION 6 IMPROVEMENT				
Drawing Title				
WORKS PLANS REGULATION 5(2)(j) SHEET 2 OF 7				
Designed CW	Drawn WC	Checked JCH	Approved LB	Date 14/12/18
Internal Project No. 60543032		Suitability D7		
Scale @ A1 1:2500		Zone Scheme Wide General		
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.				
Drawing Number Highways England PIN		Originator	Volume	Rev
HE551485		-ACM	-GEN-	C01
ZZ_SW_DCO_ZZ		-DR-DC-2302		
Location		Type	Role	Number

Appendix E - Revised Works Plan Sheet 2

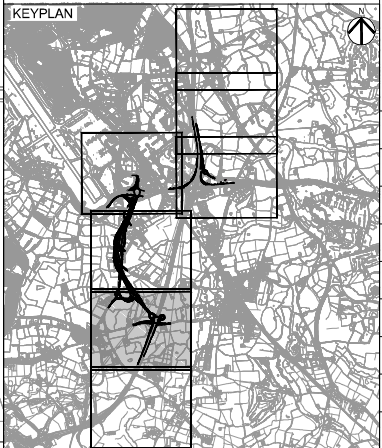
This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649 2018



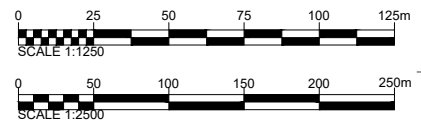
B INSET
Scale 1:1250

- NOTES
1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
 2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
 3. THE PROPOSED WORKS SHOWN ARE ILLUSTRATIVE ONLY AND WILL BE SUBJECT TO CHANGE AS PART OF DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER.
 4. WORKS ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) OF THE DEVELOPMENT CONSENT ORDER [TR010027/APP/3.1].
 5. THESE WORK PLANS SHOULD BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE LAND PLANS [TR010027/APP/2.2] AND THE ENGINEERING DRAWINGS AND SECTIONS [TR010027/APP/2.8].

DRAFT



- LEGEND**
- LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY (THE ORDER LIMITS)
 - LIMITS OF LAND TO BE ACQUIRED TEMPORARILY FOR SIGNAGE INSTALLATION
 - LAND NOT INCLUDED WITHIN THE ORDER LIMITS
 - COMMENCEMENT OF LINEAR WORKS (APPROX)
 - TERMINATION OF LINEAR WORKS (APPROX)
 - HIGHWAY WORK CENTERLINE (APPROX)
 - TEMPORARY ROAD CENTERLINE (APPROX)
 - TEMPORARY SITE COMPOUND
 - UTILITY DIVERSION CENTERLINE (APPROX)
 - UTILITY DIVERSION LIMITS OF DEVIATION
 - LIMITS OF DEVIATION
 - PROPOSED GANTRY LIMITS OF DEVIATION
 - GANTRY TO BE REMOVED
 - EXISTING GANTRY TO BE ALTERED
 - PROPOSED EMERGENCY REFUGE AREA LIMITS OF DEVIATION
 - EMERGENCY REFUGE AREA TO BE REMOVED
 - PROPOSED STRUCTURE
 - TYPE 1 ALTERATION OF PORTAL GANTRY
 - TYPE 2 ALTERATION OF CANTILEVER GANTRY
 - TYPE 3 NEW PORTAL GANTRY
 - TYPE 4 NEW CANTILEVER GANTRY
 - TYPE 5 DEMOLITION OF PORTAL GANTRY
 - TYPE 6 DEMOLITION OF CANTILEVER GANTRY



First Issue	WC	07/08/19	P01
Update to Work No.34 and Limits of Deviation	JCH	08/08/19	P02
Revision Details		By	Date
		Check	Suffix

FOR INFORMATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
B4 6BN



Development Consent Order Number
TR010027

M42 JUNCTION 6 IMPROVEMENT

**WORKS PLANS
REGULATION 5(2)(J)
SHEET 2 OF 7**

Designed JCH	Drawn JCH	Checked ME	Approved JUB	Date 08/08/19
Internal Project No. 60543032		Suitability S2		
Scale @ A1 1:2500		Zone Scheme Wide General		

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

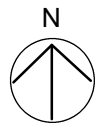
Drawing Number HE551485 -ACM -GEN -ZZ_SW_DCO_ZZ	Originator -ACM -GEN -ZZ_SW_DCO_ZZ	Volume -DR-DC-2302	Rev P02
Location	Type	Role	Number

Appendix F - Land Plan Sheet 2

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649 2018

SHEET 3

SHEET 2



- NOTES
1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
 2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
 3. ALL EASEMENTS, SERVITUDES AND PRIVATE RIGHTS ARE PROPOSED TO BE EXTINGUISHED ON LAND THAT IS TO BE ACQUIRED UNLESS STATED OTHERWISE IN THE BOOK OF REFERENCE.
 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE WORK PLANS [TR010027/APP2.3] AND THE BOOK OF REFERENCE [TR010027/APP4.3].

- LEGEND
- LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY (THE ORDER LIMITS)
 - ← 1/1 PLOT REFERENCE NUMBER (REFER TO BOOK OF REFERENCE FOR FURTHER INFORMATION)
 - LAND NOT INCLUDED WITHIN THE ORDER LIMITS
 - LAND TO BE ACQUIRED PERMANENTLY
 - LAND TO BE USED TEMPORARILY
 - LAND TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY
 - NO POWERS SOUGHT IN DCO



First Issue	IM	CW	14/12/18	C01
Revision Details	By	Check	Date	Suffix

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
B4 6BN



Development Consent Order Number
TR010027

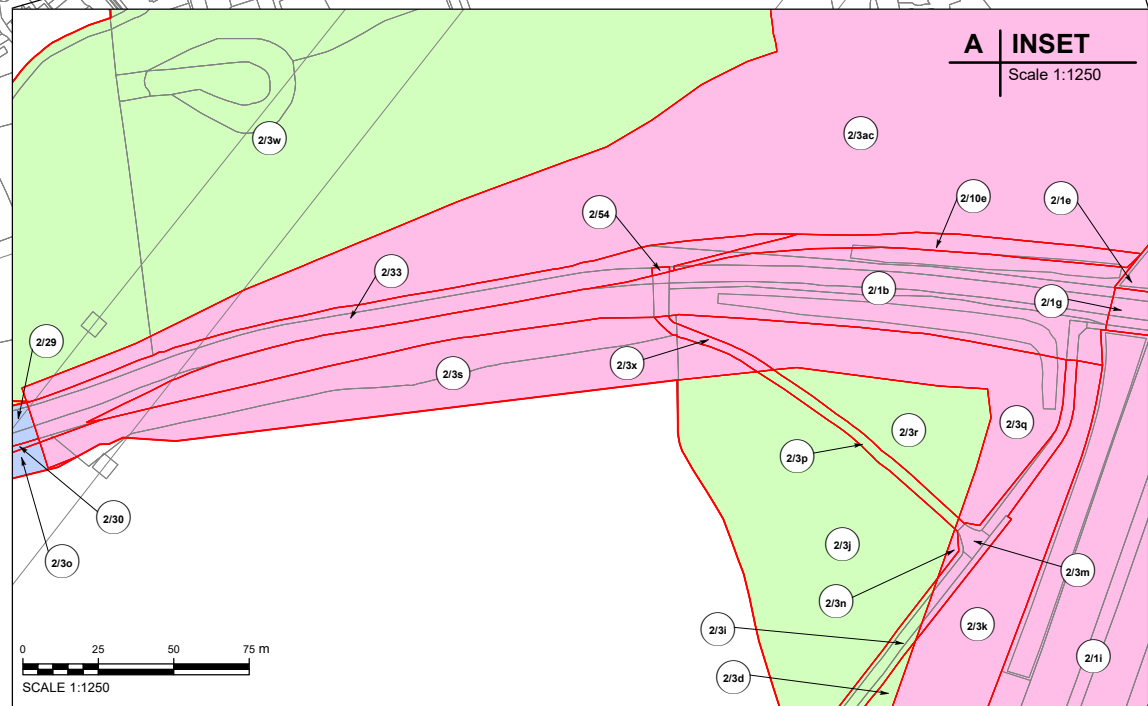
Project Title
M42 JUNCTION 6 IMPROVEMENT

Drawing Title
LAND PLANS
REGULATION 5(2)(i)
SHEET 2 OF 7

Designed MW	Drawn IM	Checked CW	Approved IJB	Date 14/12/2018
Internal Project No. 60543032			Suitability D7	
Scale @ A1 1:2500			Zone Scheme Wide General	

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

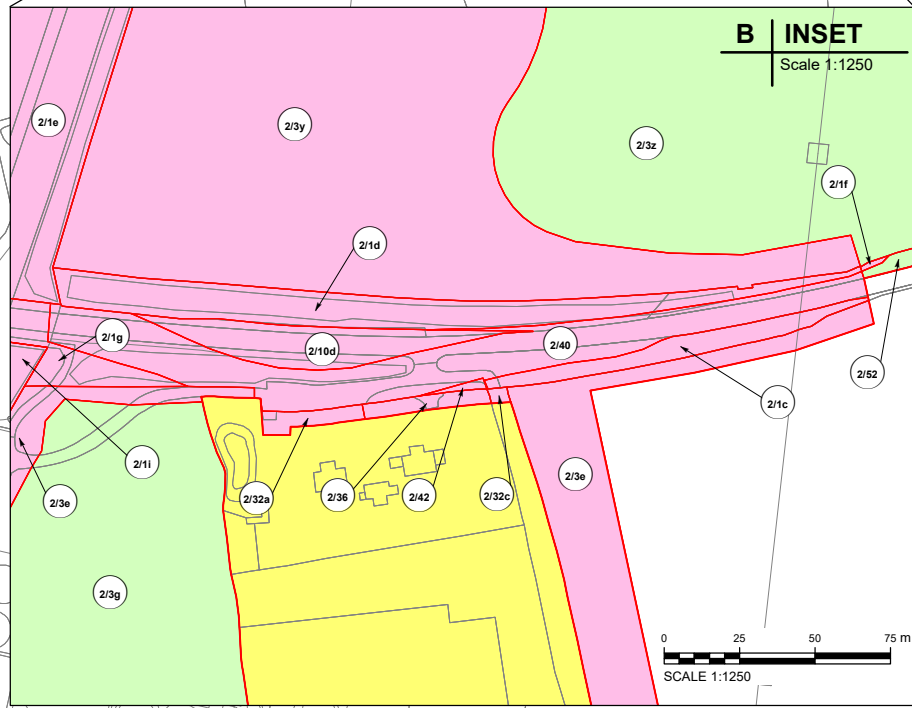
Drawing Number HE551485 -ACM	Originator -GEN-	Volume ZZ_SW_DCO_ZZ	Rev C01
Location DR-DC-2202	Type 1	Role 1	Number 1



0 25 50 75 m
SCALE 1:1250

SHEET 2

SHEET 1



0 25 50 75 m
SCALE 1:1250

0 50 100 150 200 250 m
SCALE 1:2500

Plot Data: Friday, December 14, 2018, 6:20:23 PM
File Name: D:\Munich\Ardem\M42_Junction_6\MMD\Land Plans\20181214\HE551485-ACM-GEN-ZZ_SW_DCO_ZZ-DC-2202.mxd