

A417 Missing Link

PEI Figures - Volume 4

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LEGEND	
	2KM STUDY
	SPECIAL AREAS OF CONSERVATION (SAC)
	SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
CONSTRUCTION	
NONE	
MAINTENANCE / CLEANING	
NONE	
USE	
NONE	
DECOMMISSIONING / DEMOLITION	
NONE	

P04	19/08/19	UPDATED FIGURE NUMBER	EB	CD	JP	SW
Rev.	Date	Description	By	Chk'd	App'd	Aut'd

S4 Drawing Status: SUITABLE FOR STAGE APPROVAL

ARUP

Client: **highways england**

Project Title: A417 MISSING LINK				
Drawing Title: FIGURE 8.1 STATUTORY DESIGNATED SITES SHEET 1 OF 3				
Scale: 1:20,000	By: EB	Checked: CD	Approved: JP	Authorised: SW
Original Size: A3	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19
Drawing Number: HE PIN	Originator: ARUP	Volume: EGN	Revision: P04	
HE551506 - ARP	- DR - LE - 000007			
Location	Type	Role	Number	



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LEGEND	
	2KM STUDY
	SPECIAL AREAS OF CONSERVATION (SAC)
	SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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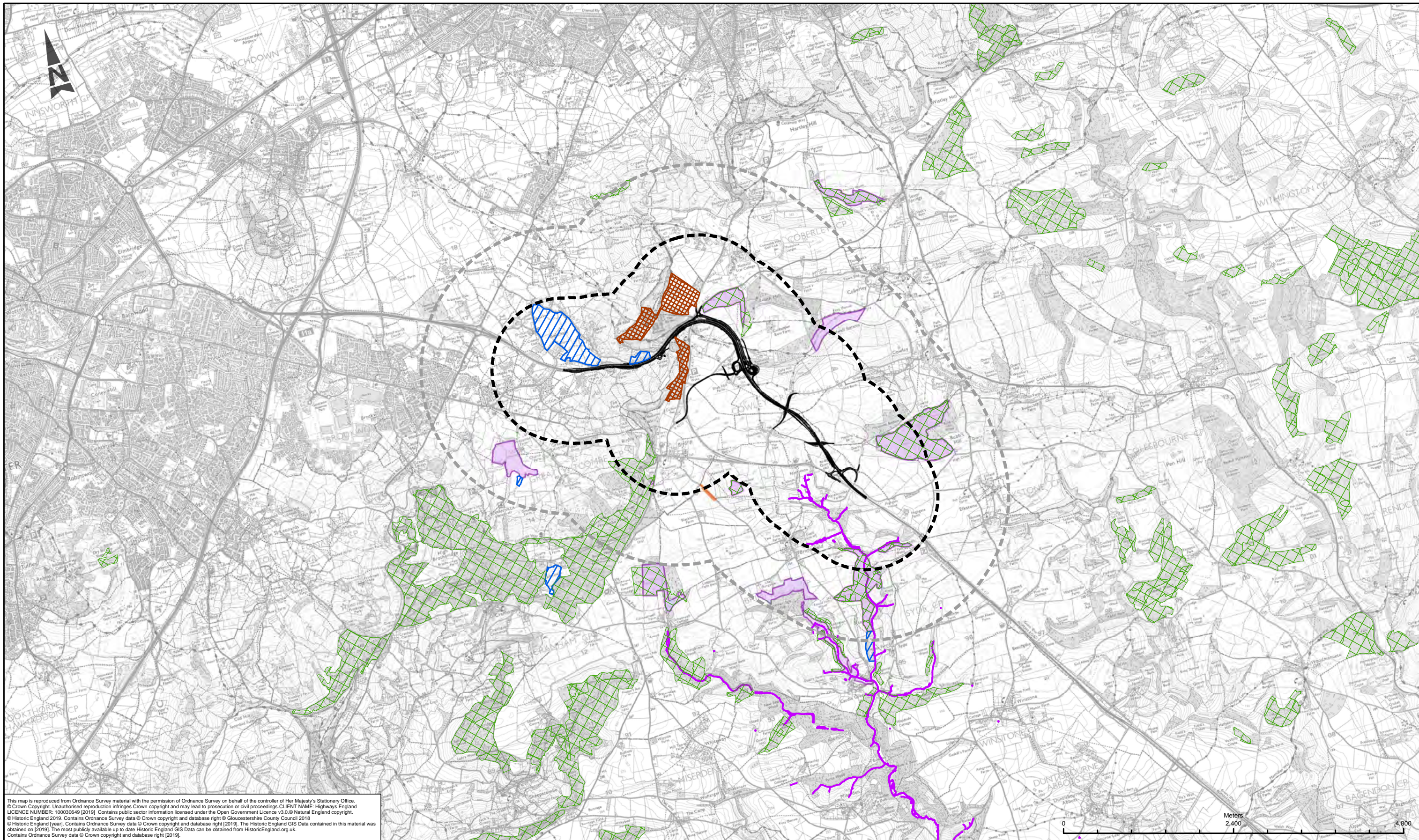
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P04	19/08/19	UPDATED FIGURE NUMBER	EB	CD	JP	SW

S4 Drawing Status
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Project Title		Drawing Title	
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1:20,000	EB	CD	JP
Original Size	Date	Date	Date
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Drawing Number	HE PIN	Originator	Volume
HE551506 - ARP		- ARN	- EGN
X_XX_XXXX_X	-DR	-LE	-000009
Location	Type	Role	Number
			P04



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LEGEND	
	CORE STUDY AREA (1KM)
	WIDER STUDY AREA (2KM)
	KEY WILDLIFE SITES (KWS)
	LOCAL WILDLIFE RESERVES (LWR)
	POTENTIAL KEY WILDLIFE SITES
	CONSERVATION ROAD VERGE
	ANCIENT WOODLAND

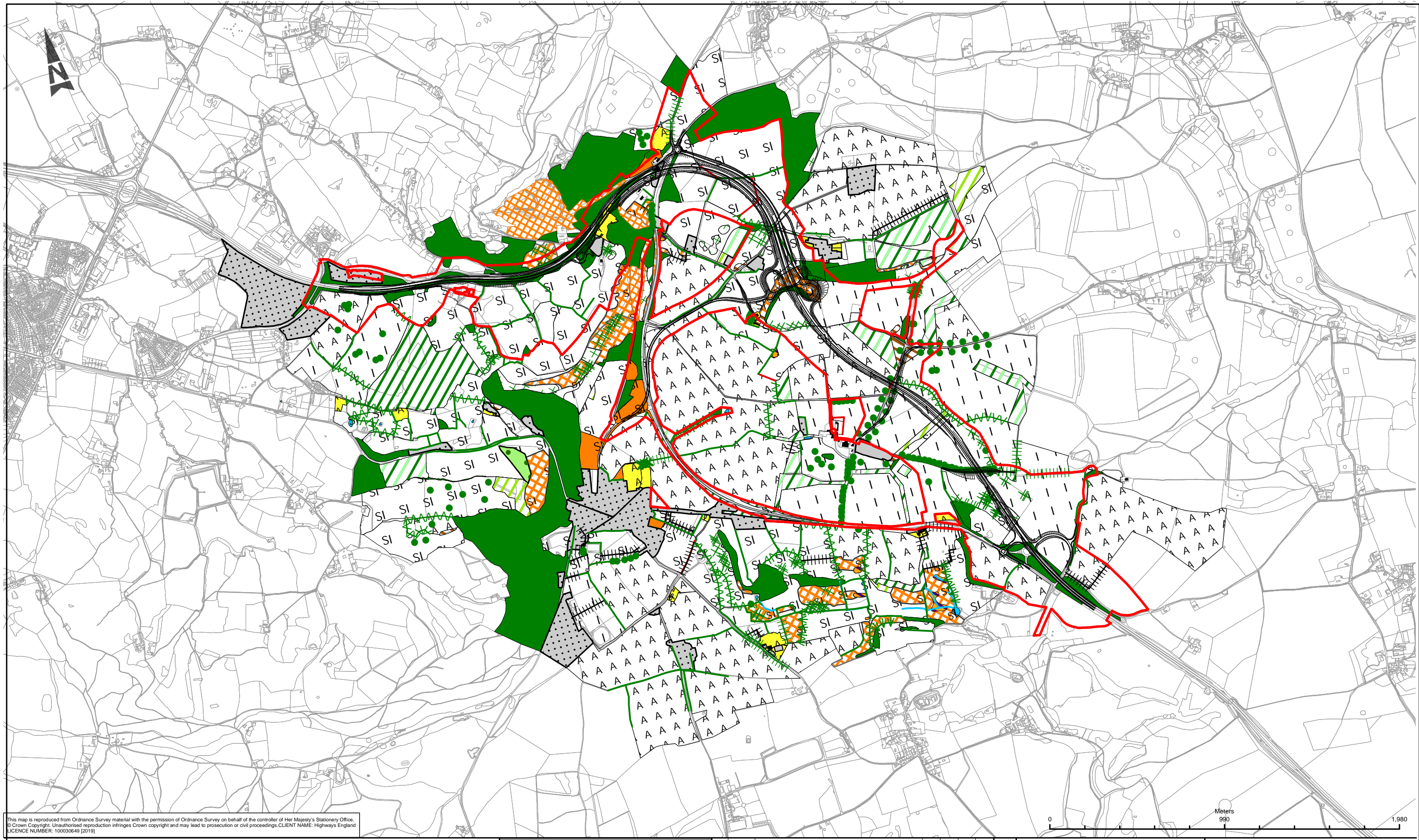
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CONSTRUCTION							
NONE							
MAINTENANCE / CLEANING							
NONE							
USE							
NONE							
DECOMMISSIONING / DEMOLITION							
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P04	19/08/19	UPDATED FIGURE NUMBER	EB	CD	JP	SW	
Rev.	Date	Description	By	Chk'd	App'd	Auth'd	

Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL

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Client: **highways england**

Project Title					
A417 MISSING LINK					
Drawing Title					
FIGURE 8.2 NON-STATUTORY DESIGNATED SITES					
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1:50,000	EB	CD	JP	SW	
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Drawing Number					
HE PIN	Originator	Volume	Revision		
HE551506 -	ARP	- EGN	P04		
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Location	Type	Role	Number		



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LEGEND			
	PROPOSED SCHEME BOUNDARY		HEDGE WITH TREES - NATIVE SPECIES-POOR
	SCRUB - SCATTERED BROADLEAVED TREES		MIXED WOODLAND - PLANTATION
	PARKLAND/SCATTERED TREES		SCRUB - SCATTERED
	RUNNING WATER		NEUTRAL GRASSLAND - SEMI-IMPROVED
	INTACT HEDGE - NATIVE SPECIES-RICH		STANDING WATER
	INTACT HEDGE - SPECIES-POOR		HARDSTANDING LAND - ARABLE
	HEDGE WITH TREES - NATIVE SPECIES-RICH		CULTIVATED/DISTURBED LAND - AMENITY GRASSLAND
	BROADLEAVED WOODLAND - SEMI-NATURAL		BUILDINGS
	BROADLEAVED WOODLAND - PLANTATION		NOT SURVEYED DUE TO ACCESS RESTRICTION
	CONIFEROUS WOODLAND - PLANTATION		OTHER TALL HERB AND FERN - RUDERAL
	MIXED WOODLAND - SEMI-NATURAL		IMPROVED GRASSLAND
	POOR SEMI-IMPROVED GRASSLAND		MARSHY GRASSLAND
	WALL		
	FENCE		
	BROADLEAVED WOODLAND - SEMI-NATURAL		
	BROADLEAVED WOODLAND - PLANTATION		
	CONIFEROUS WOODLAND - PLANTATION		
	MIXED WOODLAND - SEMI-NATURAL		
	POOR SEMI-IMPROVED GRASSLAND		
	SCRUB - SCATTERED		
	NEUTRAL GRASSLAND - SEMI-IMPROVED		
	CALCAREOUS GRASSLAND - UNIMPROVED		
	CALCAREOUS GRASSLAND - SEMI-IMPROVED		
	IMPROVED GRASSLAND		
	MARSHY GRASSLAND		

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

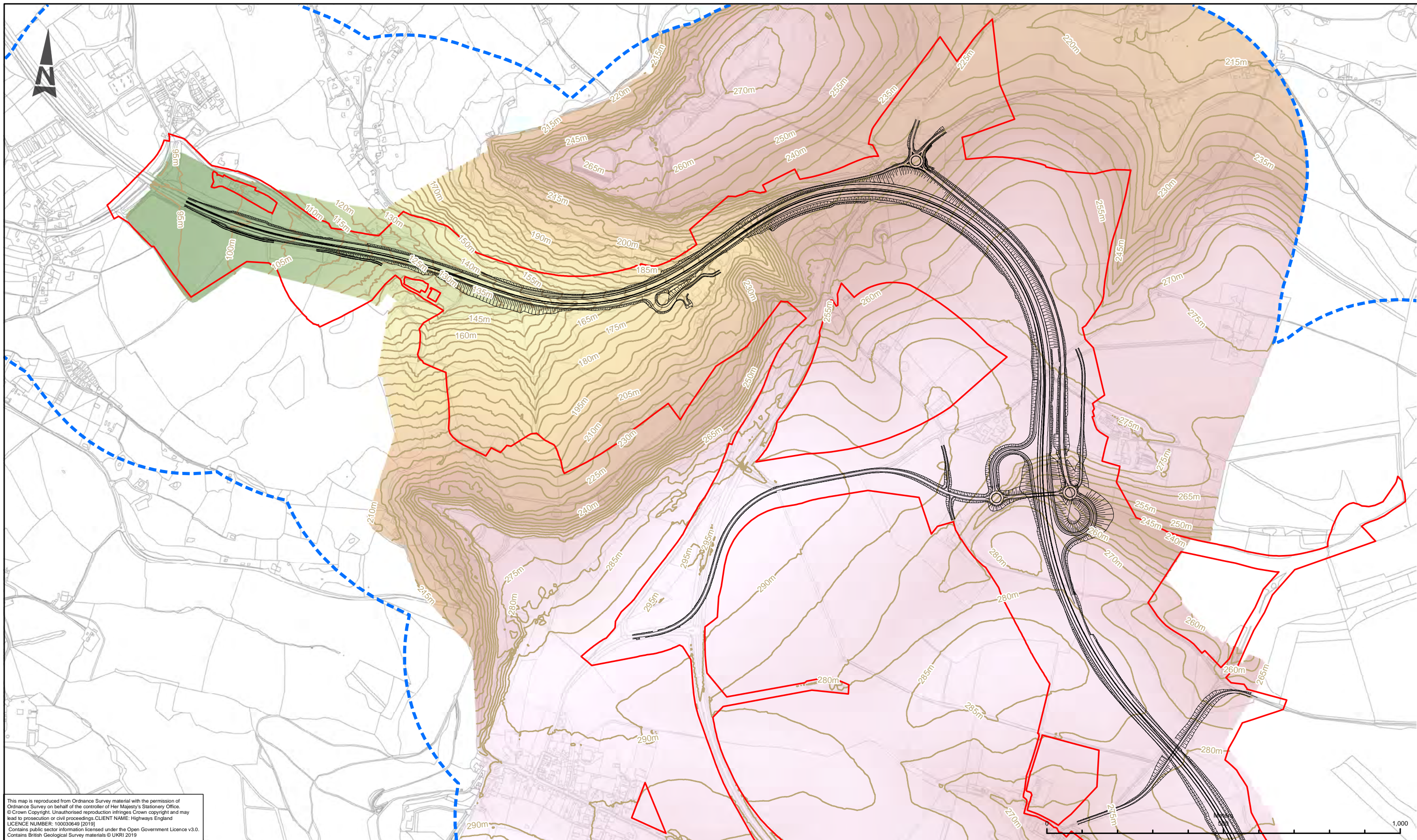
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P04	19/08/19	UPDATED FIGURE NUMBER	EB	CD	JP	SW

Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL

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highways england

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Original Size: A3	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19
Authorised: SW			
Volume: VES	Type: DR	Location: LE	Number: 000001
Revision: P04			



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LEGEND
 [Blue dashed line] PROPOSED SCHEME BOUNDARY - 500M BUFFER
 [Red solid line] PROPOSED SCHEME BOUNDARY
 [Color gradient] HIGH: 303M
 [Color gradient] LOW: 88M

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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MAINTENANCE / CLEANING			
NONE			
USE			
NONE			
DECOMMISSIONING / DEMOLITION			
NONE			

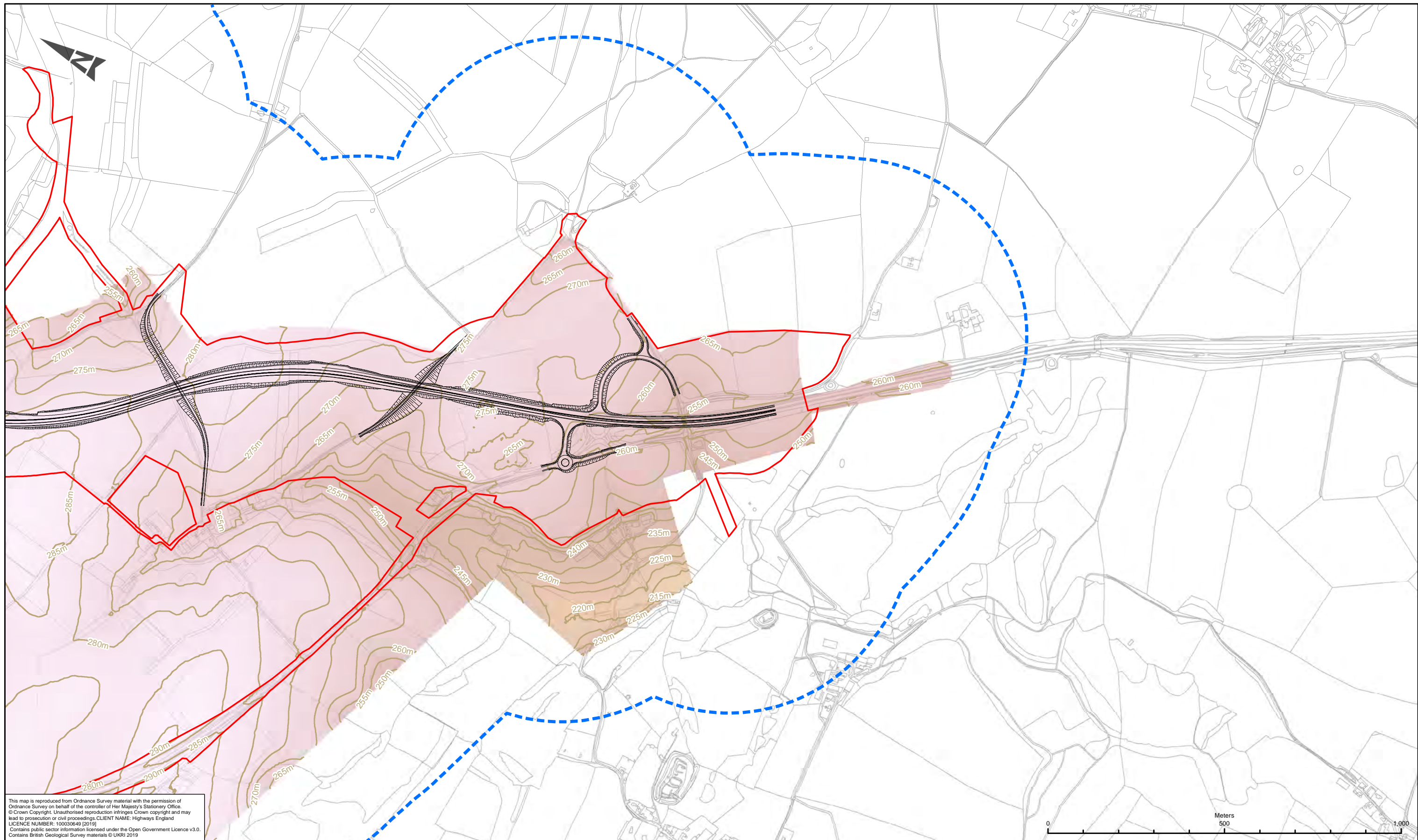
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Rev.	Date	Description	By	Chk'd	App'd	Aud'td

Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL

ARUP

Client: **highways england**

Project Title: A417 MISSING LINK					
Drawing Title: FIGURE 9.1 TOPOGRAPHY AND GEOMORPHOLOGY SHEET 1 OF 2					
Scale: 1:10,000	By: EB	Checked: LT	Approved: JP	Authorised: SW	
Original Size: A3	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19
Drawing Number: HE PIN	Originator: ARP	Volume: VTO	Revision: P04		
HE551506 -	ARP -	VTO -	P04		
X_XX_XXXX_X	-DR -	C -	000001		
Location	Type	Role	Number		



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LEGEND

- PROPOSED SCHEME BOUNDARY - 500M BUFFER
- PROPOSED SCHEME BOUNDARY
- HIGH: 303M
- LOW: 88M

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
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MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

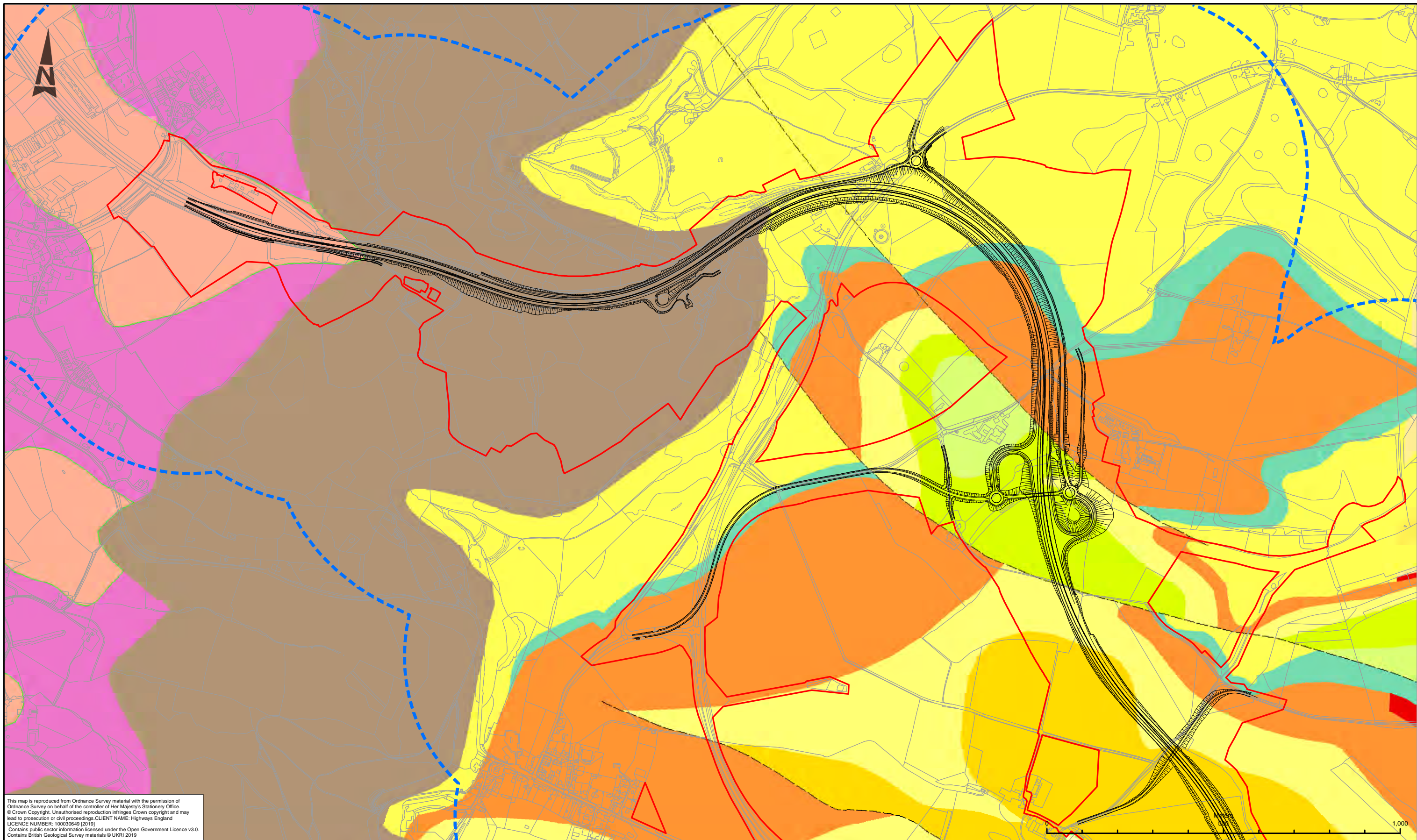
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P04	19/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

S4 SUITABLE FOR STAGE APPROVAL

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highways england

Project Title A417 MISSING LINK					
Drawing Title FIGURE 9.1 TOPOGRAPHY AND GEOMORPHOLOGY SHEET 2 OF 2					
Scale 1:10,000	By EB	Checked LT	Approved JP	Authorised SW	
Original Size A3	Date 19/08/19	Date 19/08/19	Date 19/08/19	Date 19/08/19	Date 19/08/19
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HE551506 - X_XX_XXXX_X	-DR - C - 000008	-			
Location	Type	Role	Number		



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LEGEND	
	PROPOSED SCHEME BOUNDARY - 500M BUFFER
	PROPOSED SCHEME BOUNDARY
BEDROCK	
	ASTON LIMESTONE FORMATION - LIMESTONE
	BIRDLIP LIMESTONE FORMATION - LIMESTONE, OOIDAL
	CHARMOUTH MUDSTONE FORMATION - MUDSTONE
	FULLER'S EARTH FORMATION - MUDSTONE
	GREAT OOLITE GROUP - LIMESTONE
	HAMPEN FORMATION - LIMESTONE
	LIAS GROUP AND INFERIOR OOLITE GROUP (UNDIFFERENTIATED) - LIMESTONE, ARGILLACEOUS ROCKS AND SUBORDINATE SANDSTONE, INTERBEDDED
	SALPERTON LIMESTONE FORMATION - LIMESTONE, OOIDAL
	UPPER TRIGONIA GRIT MEMBER - LIMESTONE
	WHITE LIMESTONE FORMATION - LIMESTONE
SUPERFICIAL	
	ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
	HEAD - CLAY, SILT, SAND AND GRAVEL
	CHELTENHAM SAND AND GRAVEL - SAND AND GRAVEL
	FAULT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE
Rev.	Date Description

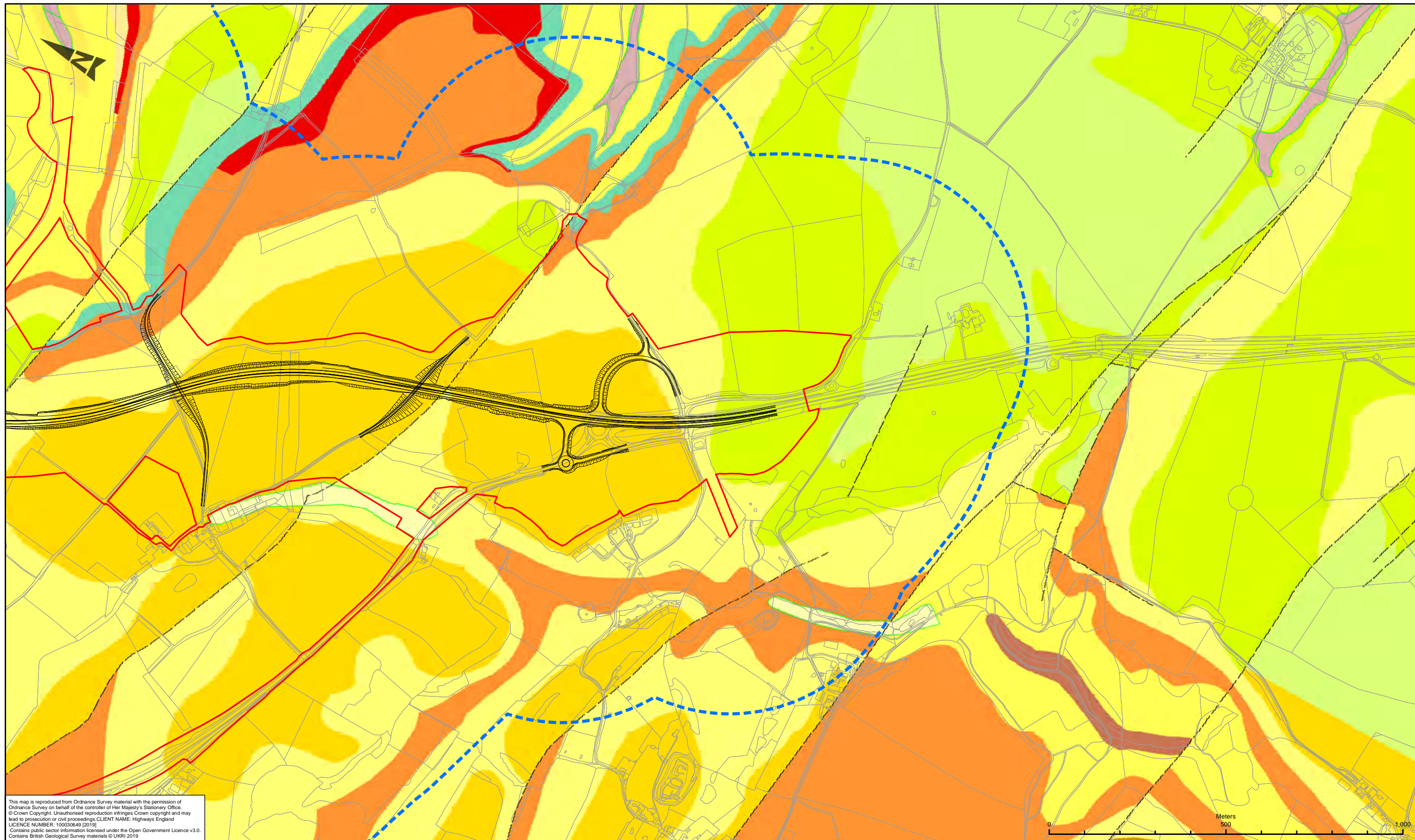
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P04	19/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

Suitability: S4
Drawing Status: SUITABLE FOR STAGE APPROVAL

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Client: highways england

Project Title	
A417 MISSING LINK	
Drawing Title	
FIGURE 9.2 PUBLISHED GEOLOGY SHEET 1 OF 2	
Scale	1:10,000
By	EB
Checked	LT
Approved	JP
Authorised	SW
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Date	19/08/19
Date	19/08/19
Date	19/08/19
Date	19/08/19
Drawing Number	HE551506 - ARP - EGT
HE PIN	X_XX_XXXX_X
Originator	-DR - LE - 000002
Volume	
EGT	
Location	
Type	
Role	
Number	
Revision	P04



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LEGEND	
	PROPOSED SCHEME BOUNDARY - 500M BUFFER
	PROPOSED SCHEME BOUNDARY
BEDROCK	
	ASTON LIMESTONE FORMATION - LIMESTONE
	BIRDLIP LIMESTONE FORMATION - LIMESTONE, OOIDAL
	CHARMOUTH MUDSTONE FORMATION - MUDSTONE
	FULLER'S EARTH FORMATION - MUDSTONE
	GREAT OOLITE GROUP - LIMESTONE
	HAMPEN FORMATION - LIMESTONE
	LIAS GROUP AND INFERIOR OOLITE GROUP (UNDIFFERENTIATED) - LIMESTONE, ARGILLACEOUS ROCKS AND SUBORDINATE SANDSTONE, INTERBEDDED
	SALPERTON LIMESTONE FORMATION - LIMESTONE, OOIDAL
	UPPER TRIGONIA GRIT MEMBER - LIMESTONE
	WHITE LIMESTONE FORMATION - LIMESTONE
SUPERFICIAL	
	ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
	HEAD - CLAY, SILT, SAND AND GRAVEL
	CHELTENHAM SAND AND GRAVEL - SAND AND GRAVEL
	FAULT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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NONE	
MAINTENANCE / CLEANING	
NONE	
USE	
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DECOMMISSIONING / DEMOLITION	
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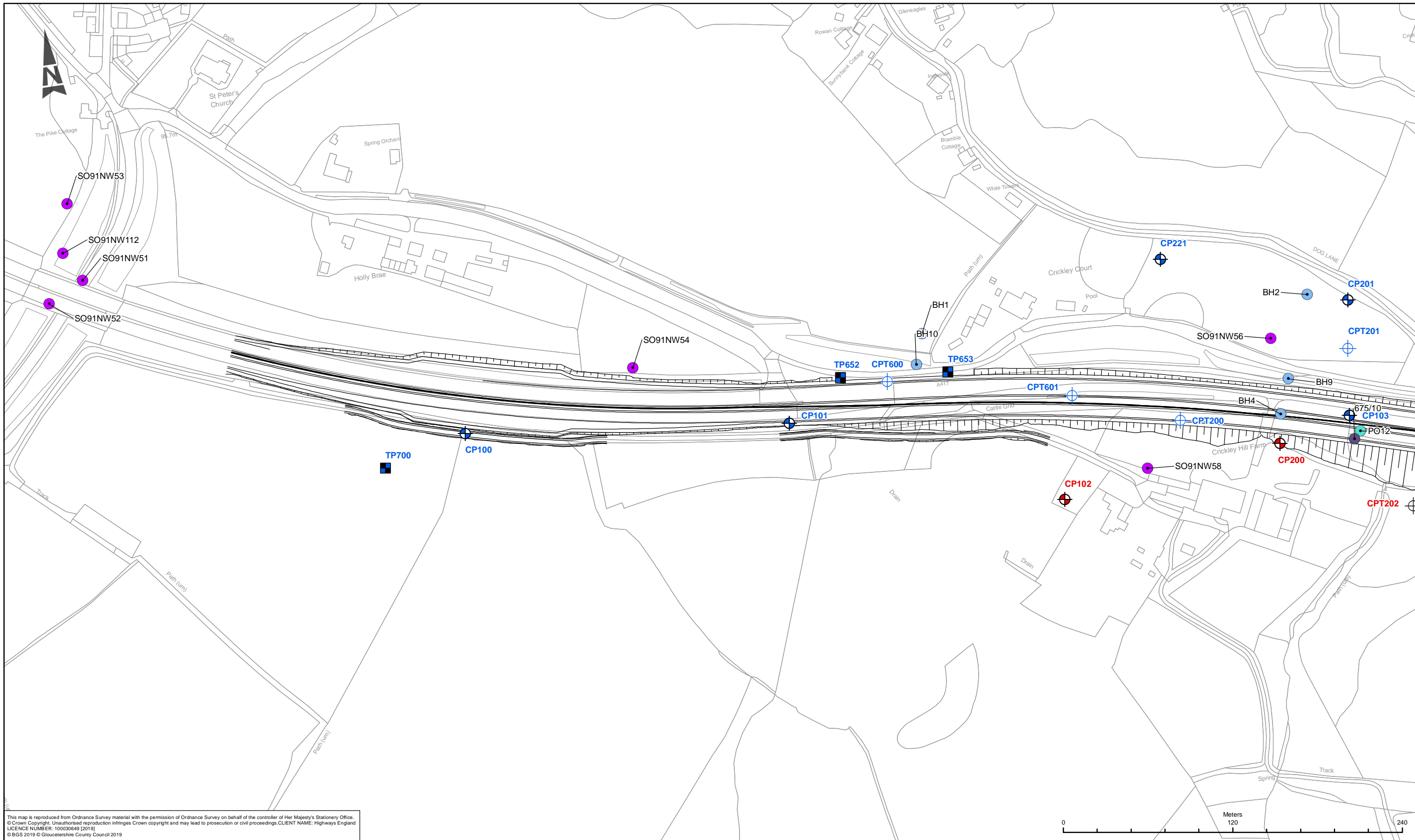
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Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL

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Client: highways england

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A417 MISSING LINK	
Drawing Title	
FIGURE 9.2 PUBLISHED GEOLOGY SHEET 2 OF 2	
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Date: 19/08/19	Date: 19/08/19
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Volume: - LE - 000003	Authorised: EGT
Location: -	Type: -
Role: -	Number: -
Revision: P04	



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LEGEND		PHASE 2B	
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			CPT
			TP

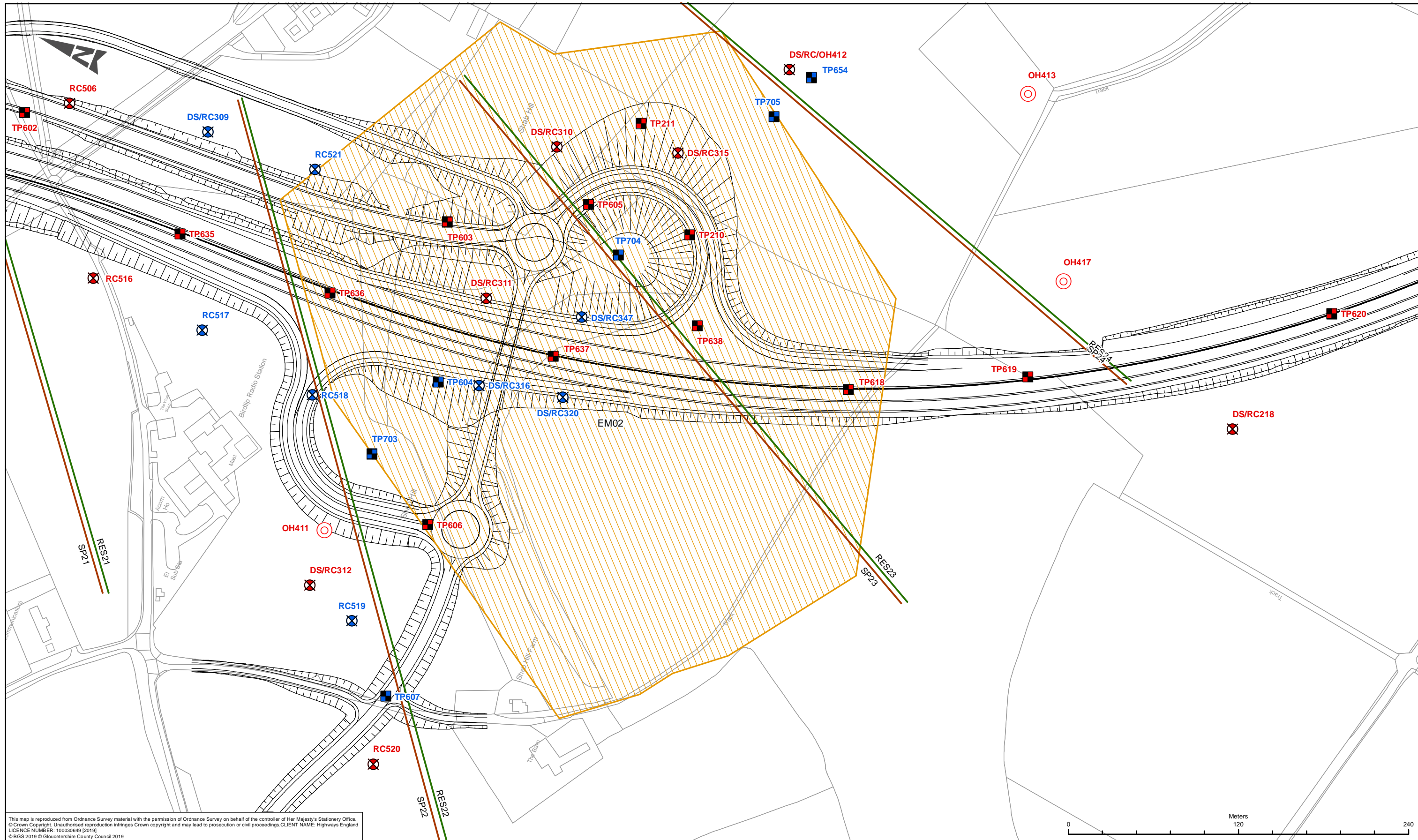
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 HISTORICAL BOREHOLE LOGS AVAILABLE FROM BGS ONSHORE GEOINDEX

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION			
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MAINTENANCE / CLEANING	NONE		
USE	NONE		
DECOMMISSIONING / DEMOLITION	NONE		
Rev.	Date	Description	

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P04	20/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

S4 Drawing Status
SUITABLE FOR STAGE APPROVAL

Project Title					
A417 MISSING LINK					
Drawing Title					
FIGURE 9.3 INDICATIVE GROUND INVESTIGATION LOCATION PLAN SHEET 1 OF 7					
Scale	By	Checked	Approved	Authorised	
1:2,500	EB	LT	JP	SW	
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A3	20/08/19	20/08/19	20/08/19	20/08/19	20/08/19
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HE551506 -	ARP	-	VGT	P04	
X_XX_XXXX_X	-DR	-C	-000001		
Location	Type	Role	Number		



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LEGEND

CURRENT / PROPOSED GROUND INVESTIGATION
Type, arup_priority

	INC RC
	OH
	DS/RC/OH
	DS/RC
	DS/RC
	INC RC
	OP
	TP
	TP

PHASE 2B

	RESTISTIVITY SURVEY
	SEISMIC SURVEY
	ELECTROMAGNETIC CONDUCTIVITY SURVEY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

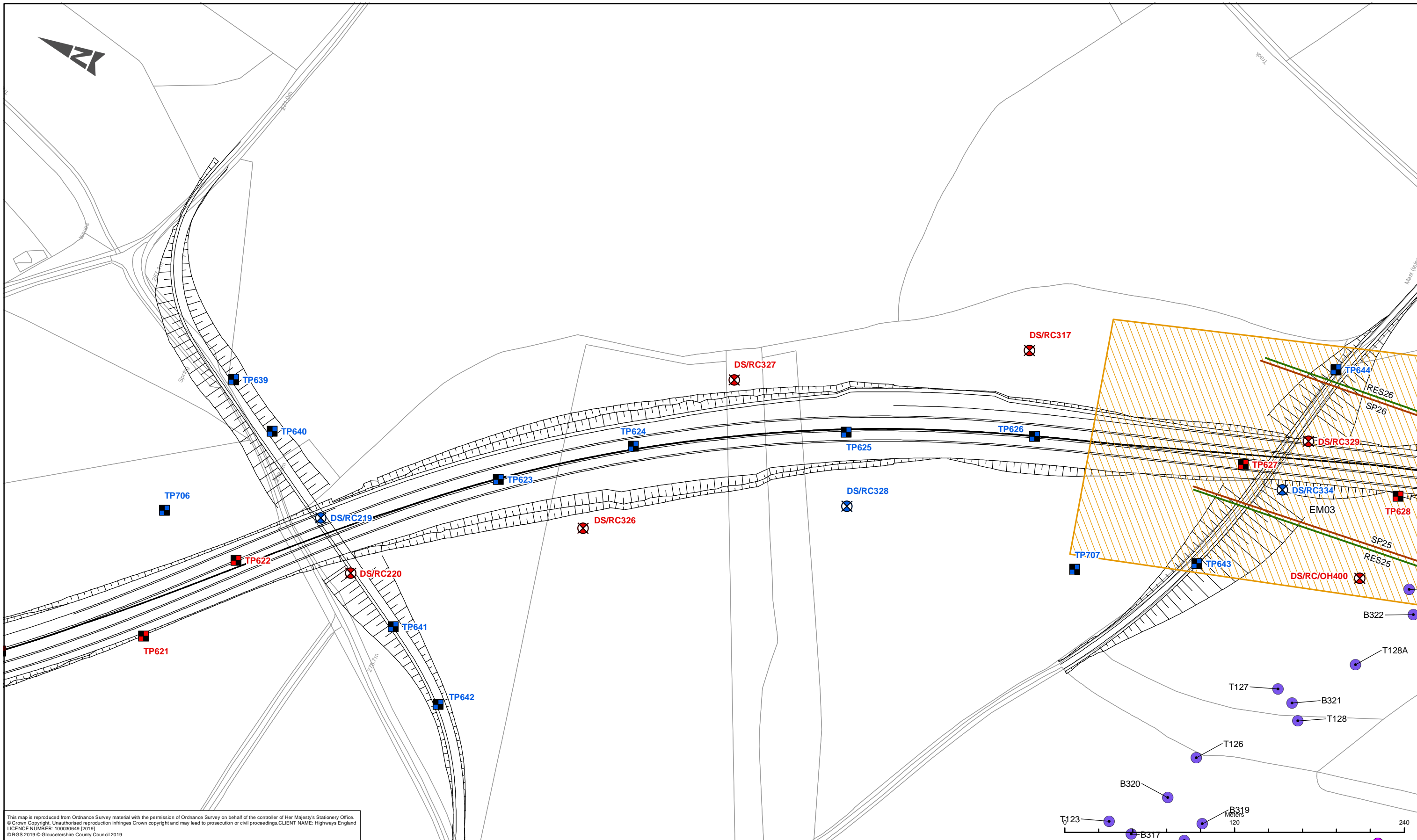
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)

CONSTRUCTION	NONE
MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P04	20/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

Suitability	S4
Drawing Status	SUITABLE FOR STAGE APPROVAL
Client	highways england

Project Title	A417 MISSING LINK				
Drawing Title	FIGURE 9.3 INDICATIVE GROUND INVESTIGATION LOCATION PLAN SHEET 4 OF 7				
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Approved	JP	Date	20/08/19	Authorised	SW
Date	20/08/19	Date	20/08/19	Date	20/08/19
Drawing Number	HE PIN	Originator	ARP	Volume	VGT
HE551506 -	ARP	-	VGT	-	P04
X_XX_XXXX_X	-DR-	C	-000004		
Location	Type	Role	Number		



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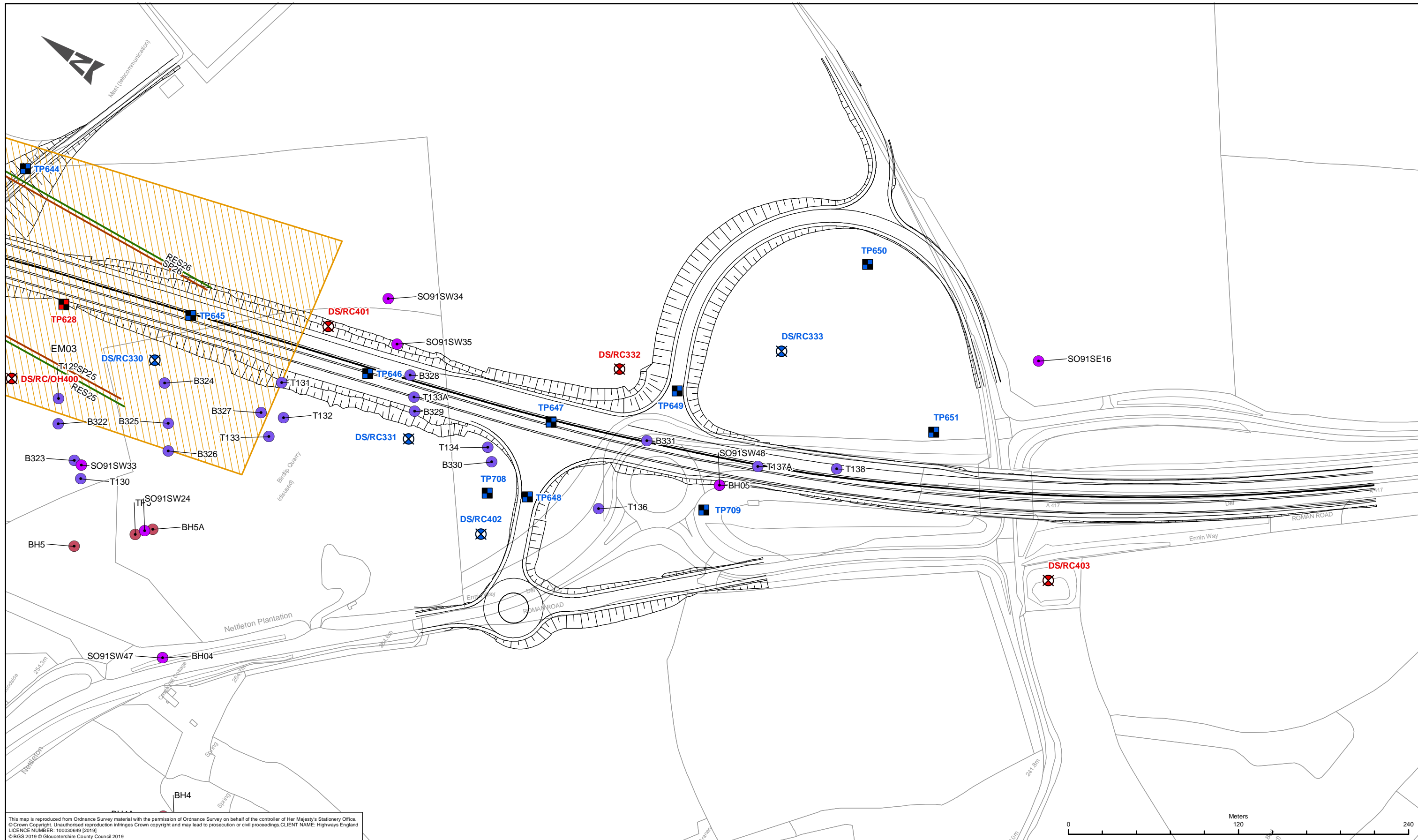
LEGEND	
HISTORIC GROUND INVESTIGATION	CURRENT / PROPOSED GROUND INVESTIGATION
● EXPLORATION ASSOCIATES (1990) HAGDMS 12601	Type, arup_priority
● HISTORICAL BOREHOLE LOGS AVAILABLE FROM BGS ONSHORE GEOINDEX	⊗ DS/RC/OH
	⊗ DS/RC
	■ TP
	■ TP
PHASE 2B	RESTISTIVITY SURVEY
⊗ DS/RC	— SEISMIC SURVEY
■ TP	▨ CONDUCTIVITY SURVEY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
CONSTRUCTION	NONE
MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P04	20/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

Suitability	S4	Drawing Status	SUITABLE FOR STAGE APPROVAL
		Client	

Project Title						A417 MISSING LINK					
Drawing Title						FIGURE 9.3 INDICATIVE GROUND INVESTIGATION LOCATION PLAN SHEET 5 OF 7					
Scale	1:2,500	By	EB	Checked	LT	Approved	JP	Authorised	SW		
Original Size	A3	Date	20/08/19	Date	20/08/19	Date	20/08/19	Date	20/08/19		
Drawing Number	HE551506 - ARP	Originator	Volume	Originator	Volume	Originator	Volume	Originator	Volume	Revision	
HE PIN	X_XX_XXXX_X	-DR	-C	-000005						P04	
Location		Type	Role	Number							



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LEGEND	
HISTORIC GROUND INVESTIGATION	CURRENT / PROPOSED GROUND INVESTIGATION
<ul style="list-style-type: none"> ● FOUNDATION AND EXPLORATION SERVICES (1989) HAGDMS 12600 ● EXPLORATION ASSOCIATES (1990) HAGDMS 12601 ● INTERROUTE (2009) HAGDMS 23794 ● HISTORICAL BOREHOLE LOGS AVAILABLE FROM BGS ONSHORE GEOINDEX 	<ul style="list-style-type: none"> Type, arup_priority DS/RC/OH DS/RC TP
PHASE 2B	PHASE 2B
<ul style="list-style-type: none"> DS/RC TP 	<ul style="list-style-type: none"> — RESTISTIVITY SURVEY — SEISMIC SURVEY — ELECTROMAGNETIC SURVEY — CONDUCTIVITY SURVEY

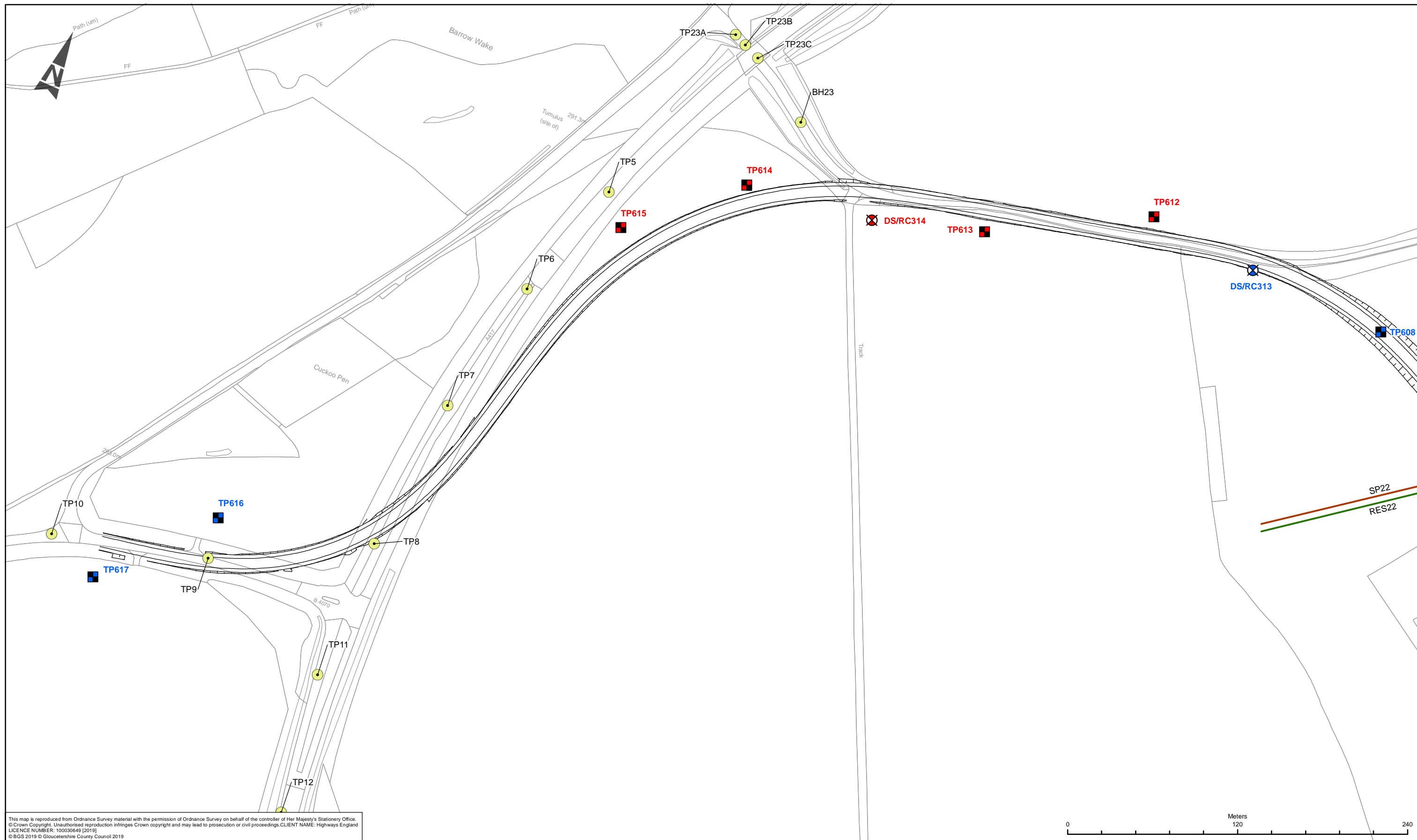
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
CONSTRUCTION	NONE
MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

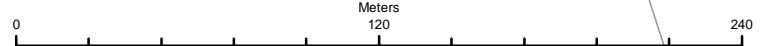
Rev.	Date	Description	By	Chk'd	App'd	Auth'd

Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL
 Client: **ARUP** highways england

Project Title: A417 MISSING LINK				
Drawing Title: FIGURE 9.3 INDICATIVE GROUND INVESTIGATION LOCATION PLAN SHEET 6 OF 7				
Scale: 1:2,500	By: EB	Checked: LT	Approved: JP	Authorised: SW
Original Size: A3	Date: 20/08/19	Date: 20/08/19	Date: 20/08/19	Date: 20/08/19
Drawing Number: HE551506 - ARP - VGT	HE PIN: X_XX_XXXX_X	Originator: -DR - C	Volume: -000006	Revision: P04
Location		Type	Role	Number



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LEGEND		CURRENT / PROPOSED GROUND INVESTIGATION		CURRENT / PROPOSED GROUND INVESTIGATION		— RESTISTIVITY SURVEY		— SEISMIC SURVEY	
HISTORIC GROUND INVESTIGATION		Type, arup_priority		DS/RC		TP			
<ul style="list-style-type: none"> ● GLOUCESTER COUNTY COUNCIL (1983) HAGDMS 12606 		<ul style="list-style-type: none"> ⊗ DS/RC ■ TP 		<ul style="list-style-type: none"> ⊗ DS/RC ■ TP 		<ul style="list-style-type: none"> — — 			

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)

CONSTRUCTION	NONE
MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

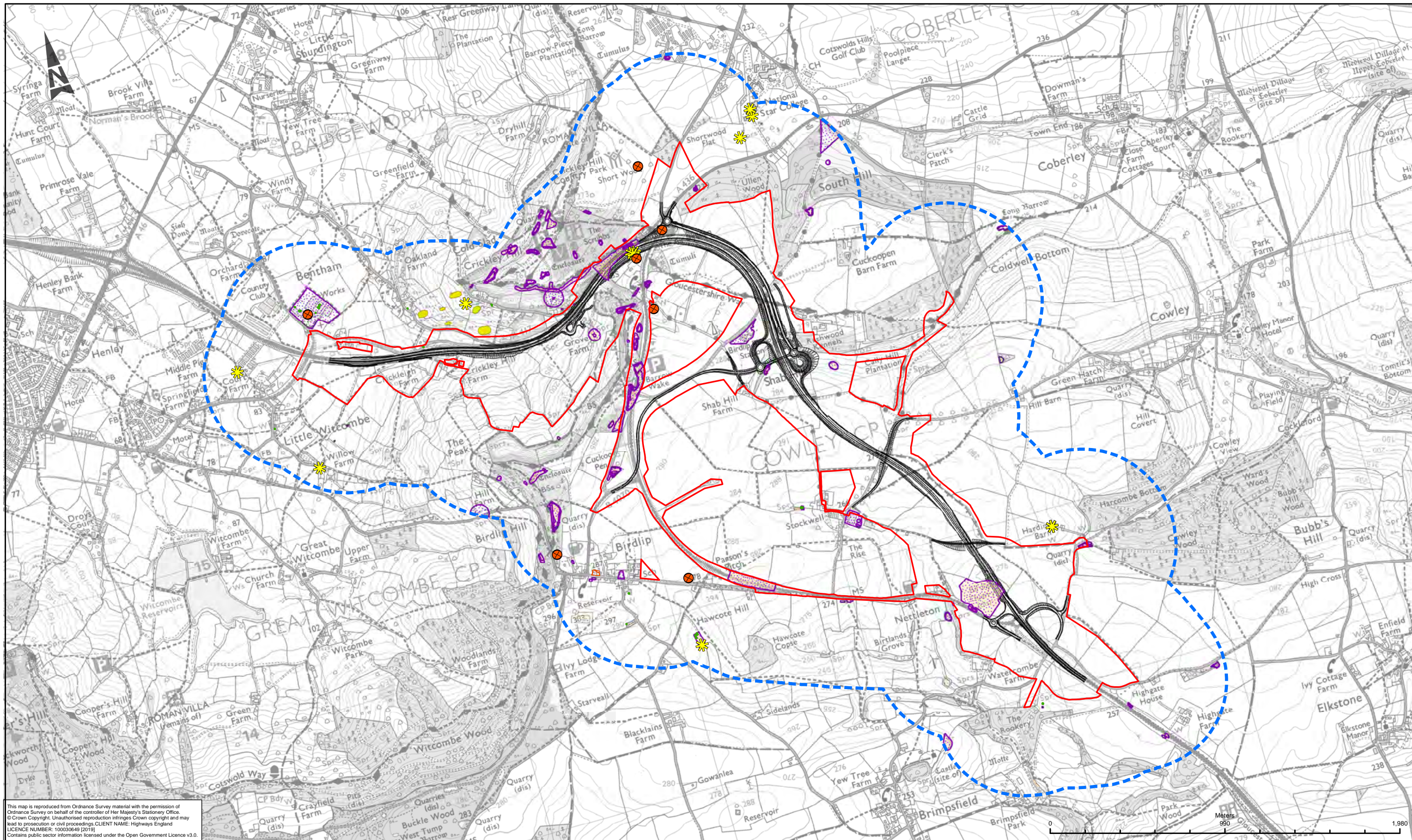
Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P04	20/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL

ARUP

highways england

Project Title: A417 MISSING LINK					
Drawing Title: FIGURE 9.3 INDICATIVE GROUND INVESTIGATION LOCATION PLAN SHEET 7 OF 7					
Scale: 1:2,500	By: EB	Checked: LT	Approved: JP	Authorised: SW	
Original Size: A3	Date: 20/08/19	Date: 20/08/19	Date: 20/08/19	Date: 20/08/19	
Drawing Number: HE PIN	Originator: ARP	Volume: VGT	Revision: P04		
X_XX_XXXX_X	-DR-	C	-000007		
Location	Type	Role	Number		



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LEGEND	
	PROPOSED SCHEME BOUNDARY
	PROPOSED SCHEME BOUNDARY - 500M BUFFER
	NATIONAL INCIDENTS AND RECORDS OF POLLUTION
	CONSENTED DISCHARGES
	HISTORICAL GARAGES
	HISTORICAL TANKS
	HISTORICAL LAND USE
	POTENTIALLY INFILLED LAND
	HISTORICAL LANDFILL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)

CONSTRUCTION

NONE

MAINTENANCE / CLEANING

NONE

USE

NONE

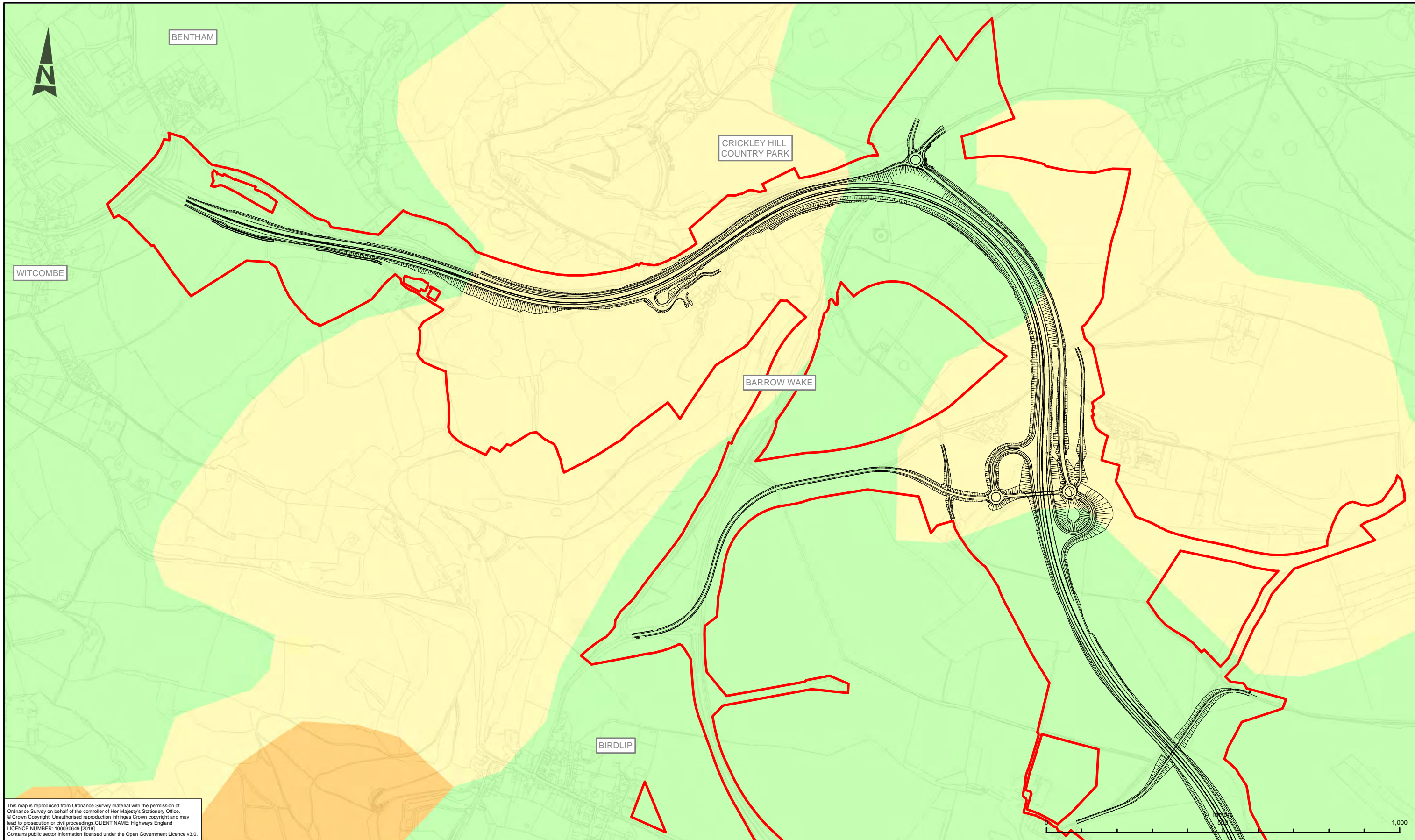
DECOMMISSIONING / DEMOLITION

NONE

Rev.	Date	Description	By	Chk'd	App'd	Aud'td
P04	19/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

S4	Drawing Status	SUITABLE FOR STAGE APPROVAL

Project Title						A417 MISSING LINK					
Drawing Title						FIGURE 9.4 GEOLOGY AND SOILS FEATURES					
Scale	1:20,000	By	EB	Checked	LT	Approved	JP	Authorised	SW		
Original Size	A3	Date	19/08/19	Date	19/08/19	Date	19/08/19	Date	19/08/19		
Drawing Number	HE PIN	Originator	ARP	Volume	EGT					P04	
HE551506 -		-DR -		LE -		000011					
X_XX_XXXX_X		-DR -		LE -		000011					
Location		Type		Role		Number					



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LEGEND

- PROPOSED SCHEME BOUNDARY
- GRADE 3
- GRADE 4
- NON AGRICULTURAL

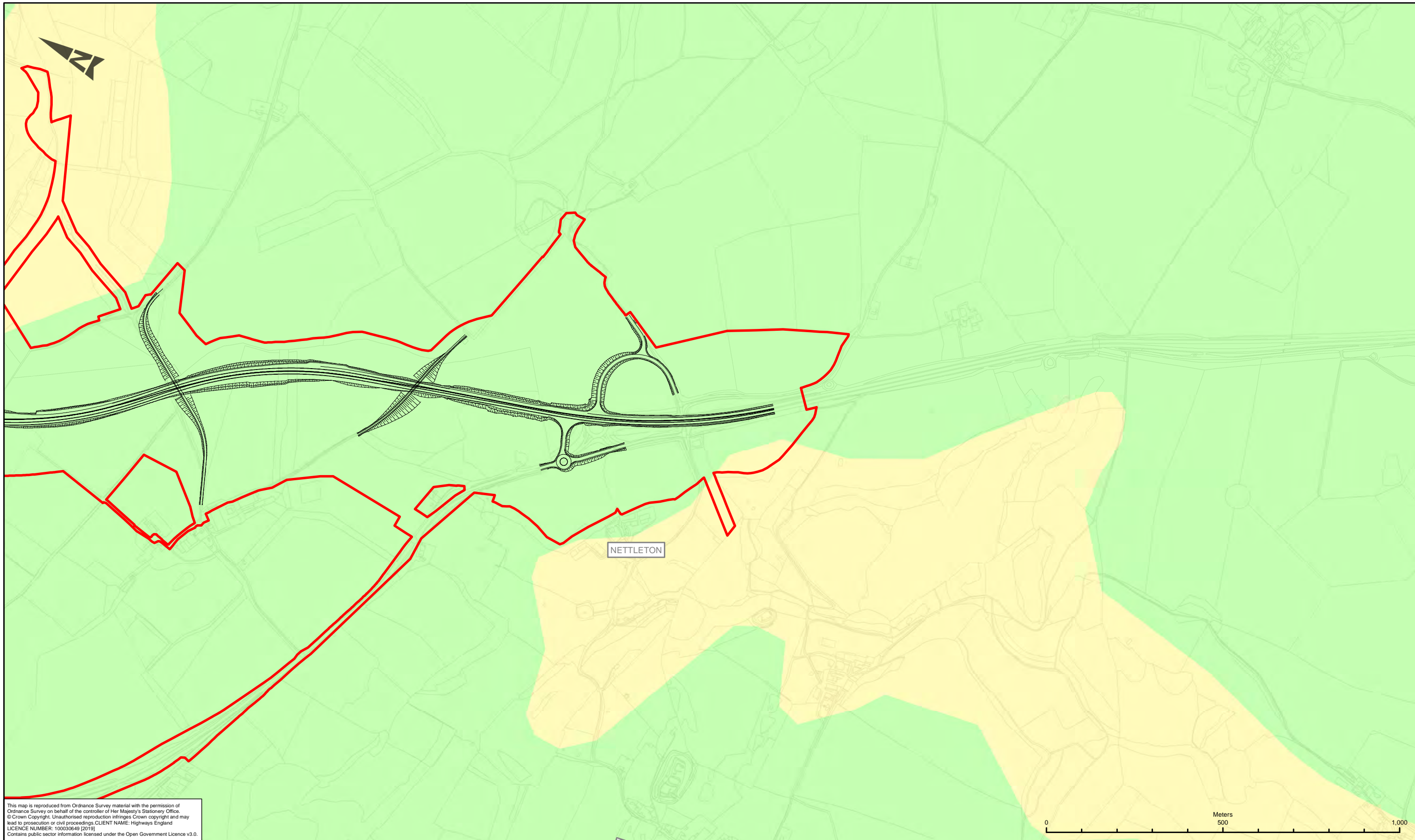
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION			
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)			
CONSTRUCTION			
NONE			
MAINTENANCE / CLEANING			
NONE			
USE			
NONE			
DECOMMISSIONING / DEMOLITION			
NONE			
P04	19/08/19	UPDATED FIGURE NUMBER	EB AP JP SW
Rev.	Date	Description	By Chk'd App'd Auth'd

Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL

ARUP

highways england

Project Title: A417 MISSING LINK				
Drawing Title: FIGURE 9.5 AGRICULTURAL LAND CLASSIFICATIONS SHEET 1 OF 2				
Scale: 1:10,000	By: EB	Checked: AP	Approved: JP	Authorised: SW
Original Size: A3	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19	Date: 19/08/19
Drawing Number: HE551506 - ARP - EGT	HE PIN: X_XX_XXXX_X	Originator: -DR - LE - 000004	Volume: -	Revision: P04
	Location	Type	Role	Number



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- LEGEND**
- PROPOSED SCHEME
 - GRADE 3
 - GRADE 4

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

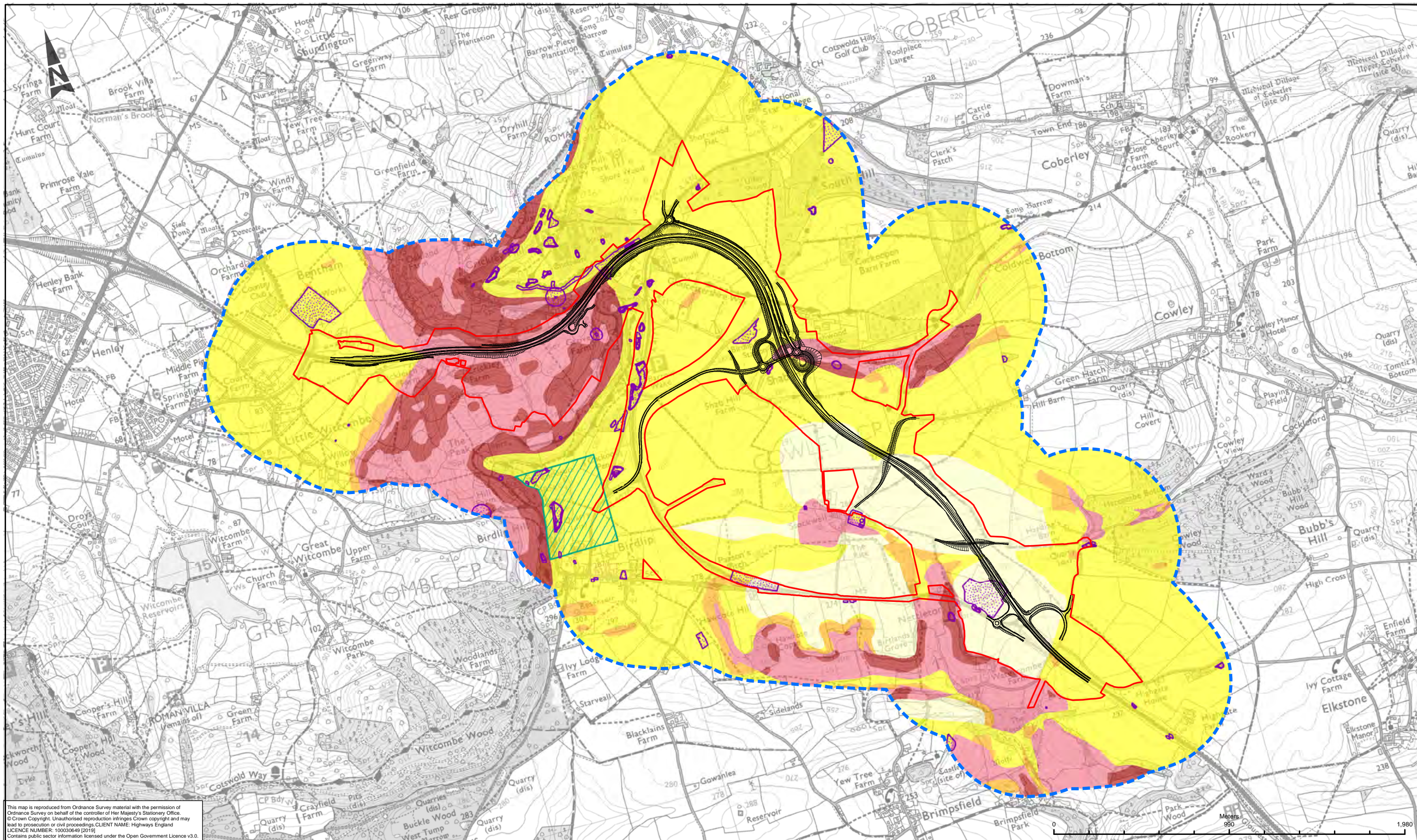
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)

CONSTRUCTION	NONE
MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P04	19/08/19	UPDATED FIGURE NUMBER	EB	AP	JP	SW

Suitability	Drawing Status
S4	SUITABLE FOR STAGE APPROVAL

Project Title						A417 MISSING LINK					
Drawing Title						FIGURE 9.5 AGRICULTURAL LAND CLASSIFICATIONS SHEET 2 OF 2					
Scale	By	Checked	Approved	Authorised		Original Size	Date	Date	Date	Date	
1:10,000	EB	AP	JP	SW		A3	19/08/19	19/08/19	19/08/19	19/08/19	
Drawing Number	HE PIN	Originator	Volume	Revision		HE551506 - ARP - EGT					
						X_XX_XXXX_X -DR- LE - 000001					
						P04					



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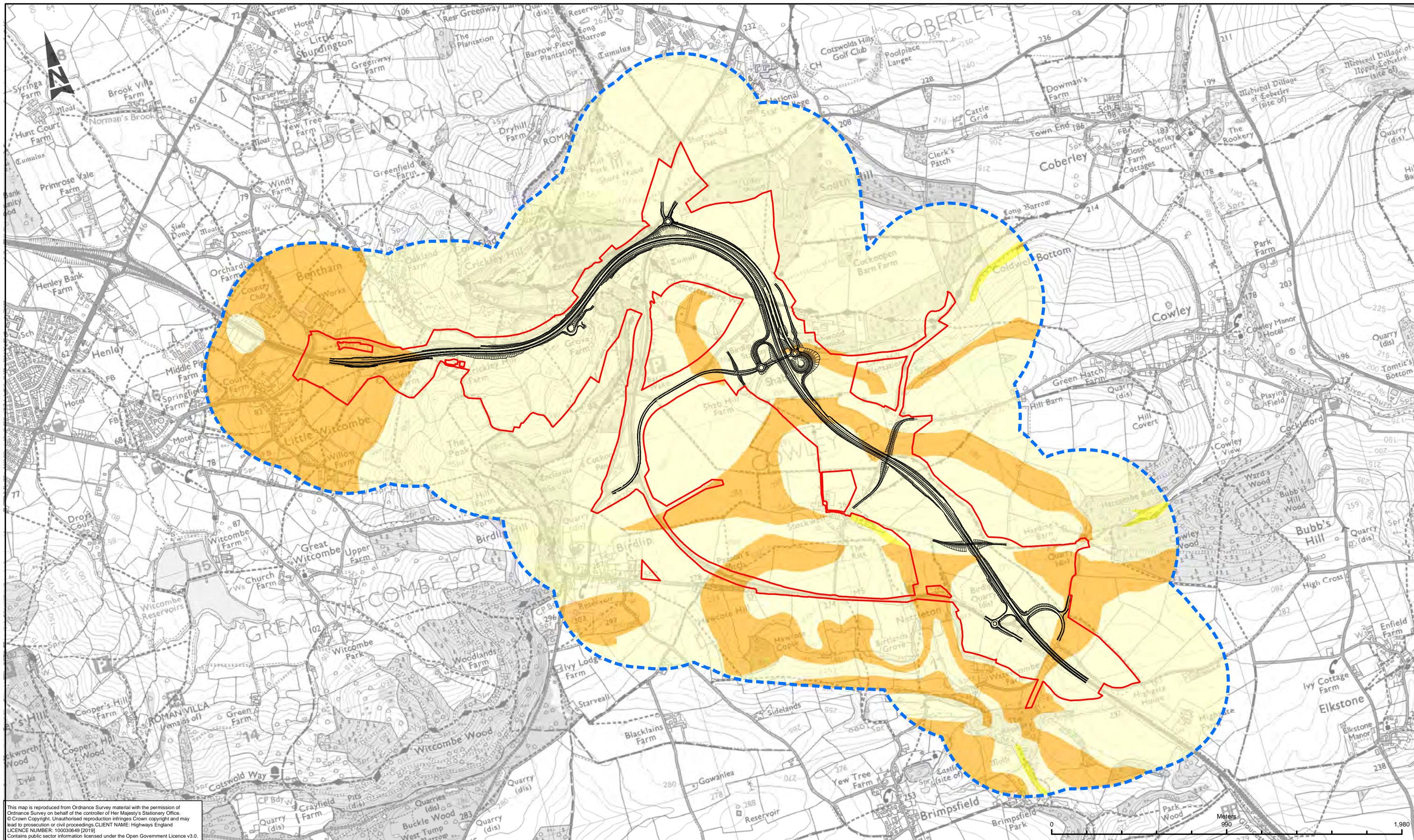
LEGEND	
	PROPOSED SCHEME BOUNDARY
	PROPOSED SCHEME BOUNDARY - 500M BUFFER
	HISTORICAL LAND USE
MINING HAZARD	
	D: UNDERGROUND MINING IS KNOWN OR CONSIDERED LIKELY TO HAVE OCCURRED WITHIN OR CLOSE TO THE AREA. POTENTIAL FOR DIFFICULT GROUND CONDITIONS ARE AT A LEVEL WHERE THEY SHOULD BE CONSIDERED
SLOPE STABILITY	
	A: SLOPE INSTABILITY PROBLEMS ARE NOT THOUGHT TO OCCUR BUT CONSIDERATION TO POTENTIAL PROBLEMS OF ADJACENT AREAS IMPACTING ON THE SITE SHOULD ALWAYS BE CONSIDERED.
	B: SLOPE INSTABILITY PROBLEMS ARE NOT THOUGHT TO OCCUR BUT CONSIDERATION TO POTENTIAL PROBLEMS OF ADJACENT AREAS IMPACTING ON THE SITE SHOULD ALWAYS BE CONSIDERED.
	C: SLOPE INSTABILITY PROBLEMS MAY BE PRESENT OR ANTICIPATED. SITE INVESTIGATION SHOULD CONSIDER SPECIFICALLY THE SLOPE STABILITY OF THE SITE.
	D: SLOPE INSTABILITY PROBLEMS ARE PROBABLY PRESENT OR HAVE OCCURRED IN THE PAST. LAND USE SHOULD CONSIDER SPECIFICALLY THE STABILITY OF THE SITE.
	E: SLOPE INSTABILITY PROBLEMS ALMOST CERTAINLY PRESENT AND MAY BE ACTIVE. SIGNIFICANT CONSTRAINT ON LAND USE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
CONSTRUCTION	NONE
MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Aud'd
P04	19/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

S4	Drawing Status	SUITABLE FOR STAGE APPROVAL

Project Title		A417 MISSING LINK	
Drawing Title		FIGURE 9.7 LAND STABILITY	
Scale	By	Checked	Approved
1:20,000	EB	LT	JP
Original Size	Date	Date	Date
A3	19/08/19	19/08/19	19/08/19
Drawing Number	HE PIN	Originator	Volume
HE551506 - ARP	-	ARP	- EGT
X_XX_XXXX_X	-DR	LE	-000009
Location	Type	Role	Number
			P04



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LEGEND	
	PROPOSED SCHEME BOUNDARY
	PROPOSED SCHEME BOUNDARY - 500M BUFFER
	A: GROUND CONDITIONS PREDOMINANTLY NON-PLASTIC.
	B: GROUND CONDITIONS PREDOMINANTLY LOW PLASTICITY.
	C: GROUND CONDITIONS PREDOMINANTLY MEDIUM PLASTICITY.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
CONSTRUCTION	
NONE	
MAINTENANCE / CLEANING	
NONE	
USE	
NONE	
DECOMMISSIONING / DEMOLITION	
NONE	

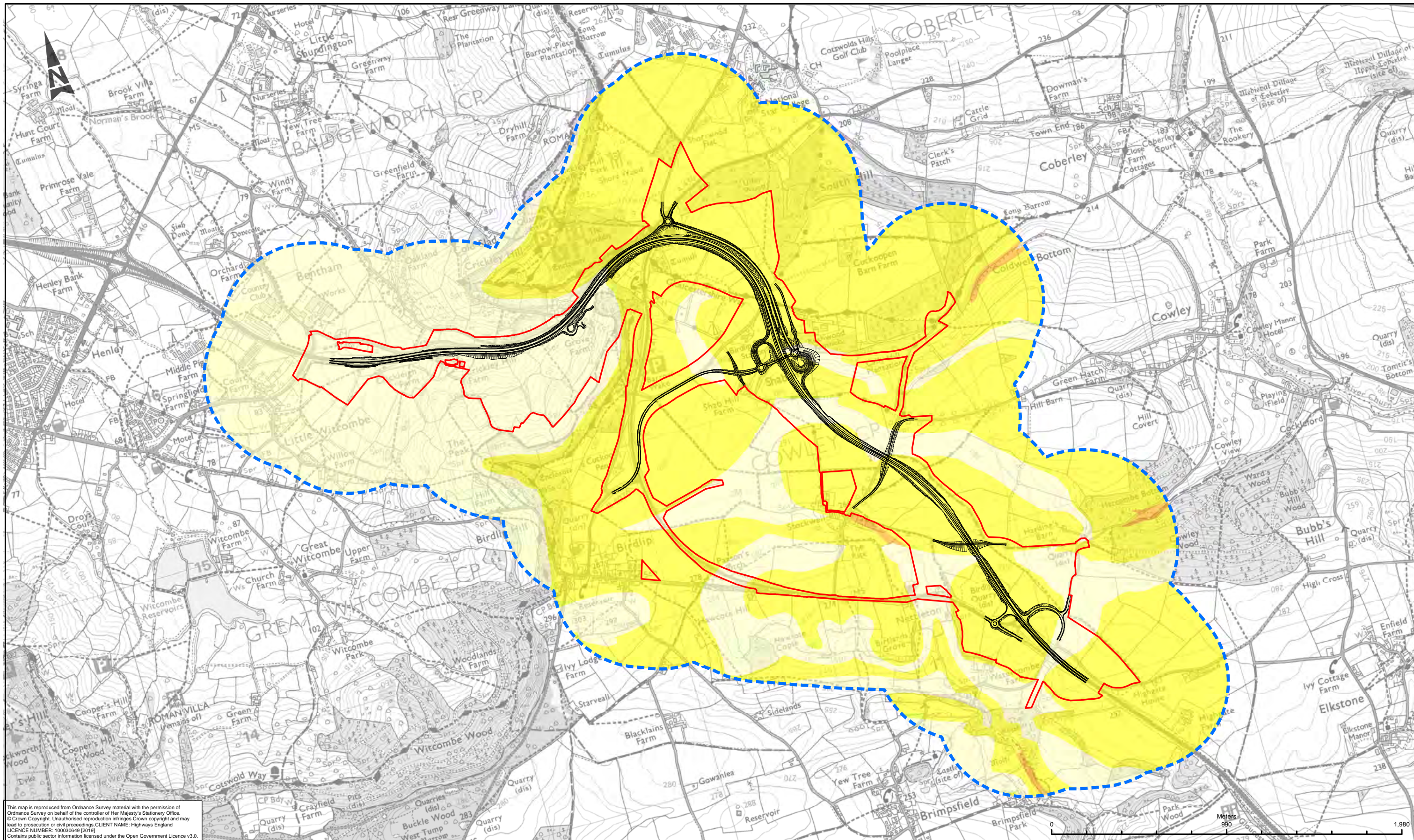
Rev.	Date	Description	By	Chkd	Appd	Autd
P04	19/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW

Suitability: S4
 Drawing Status: SUITABLE FOR STAGE APPROVAL

ARUP

Client: **highways england**

Project Title	
A417 MISSING LINK	
Drawing Title	
FIGURE 9.8 SHRINK SWELL	
Scale	1:20,000
By	EB
Checked	LT
Approved	JP
Authorised	SW
Original Size	A3
Date	19/08/19
Date	19/08/19
Date	19/08/19
Date	19/08/19
Drawing Number	HE551506 - ARP - EGT
HE PIN	X_XX_XXXX_X -DR-LE-000008
Location	
Type	
Role	
Number	
Revision	P04



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LEGEND
 PROPOSED SCHEME BOUNDARY
 PROPOSED SCHEME BOUNDARY - 500M BUFFER
 A: SOLUBLE ROCKS ARE EITHER NOT THOUGHT TO BE PRESENT WITHIN THE GROUND, OR NOT PRONE TO DISSOLUTION. DISSOLUTION FEATURES ARE UNLIKELY TO BE PRESENT.
 B: SOLUBLE ROCKS ARE PRESENT WITHIN THE GROUND. FEW DISSOLUTION FEATURES ARE LIKELY TO BE PRESENT. POTENTIAL FOR DIFFICULT GROUND CONDITIONS OR LOCALISED SUBSIDENCE ARE AT A LEVEL WHERE THEY NEED NOT BE CONSIDERED.
 C: SOLUBLE ROCKS ARE PRESENT WITHIN THE GROUND. SOME DISSOLUTION FEATURES MAY BE PRESENT. POTENTIAL FOR DIFFICULT GROUND CONDITIONS ARE AT A LEVEL WHERE THEY MAY BE CONSIDERED, LOCALISED SUBSIDENCE NEED NOT BE CONSIDERED EXCEPT IN EXCEPTIONAL CIRCUMSTANCES.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
 IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)
 CONSTRUCTION
 NONE
 MAINTENANCE / CLEANING
 NONE
 USE
 NONE
 DECOMMISSIONING / DEMOLITION
 NONE

Rev.	Date	Description	By	Chk'd	App'd	Aut'd

P04	19/08/19	UPDATED FIGURE NUMBER	EB	LT	JP	SW
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S4	Drawing Status	SUITABLE FOR STAGE APPROVAL

Project Title						A417 MISSING LINK					
Drawing Title						FIGURE 9.9 SOLUBLE ROCKS					
Scale	1:20,000	By	EB	Checked	LT	Approved	JP	Authorised	SW		
Original Size	A3	Date	19/08/19	Date	19/08/19	Date	19/08/19	Date	19/08/19		
Drawing Number	HE PIN	Originator	ARP	Volume	EGT						
HE551506 -		DR - LE - 000007								P04	
X_XX_XXXX_X											
Location	Type	Role	Number								