

### RESIDUAL DESIGN HAZARDS

THE FOLLOWING HAS BEEN COLLECTED FROM THE PRE-CONSTRUCTION INFORMATION AND HIGHLIGHTS KNOWN RESIDUAL HAZARDS.

KEY  HS # = HEALTH AND SAFETY RISK REFERENCE NUMBER  
E# = ENVIRONMENT RISK REFERENCE NUMBER

- HS-01 - WORKING NEAR/IN A WATERCOURSE
- HS-02 - UNEVEN GROUND
- HS-03 - LIVE CARRIAGEWAY
- HS-04 - 11kV - OVER-GROUND CABLE
- HS-05 - BURIED TELECOM CABLES

#### Topographic Survey

Ref	Start Ch	End Ch	Dir	Length	Comments
1	0	400	Both	400m	Topo survey to include carriageway, ditches (levels top and bottom) and verges. Note: Lane 1, verge and ditches only to be surveyed, Lane 2 (both sides) and central reservation top to be ignored
2	464508, 322157	464111, 322560		500m	Watercourse Topo required, sections required at 10m intervals 500m from carriageway.
	464579, 322104	464893, 321632		500m	Sections to include river bed level, water level, bank levels up to 10m either side of bank.

NOTE:  
WATERCOURSE TOPOGRAPHIC SURVEY WILL REQUIRE ACCESS TO ADJACENT LAND. THIRD PARTY LAND OWNER PERMISSION WILL BE REQUIRED. PERMISSION TO BE SOUGHT THROUGH HIGHWAYS ENGLAND. LANE 1 AND EARTHWORKS TO BE SURVEYED. EXCLUDE LANE 2 (BOTH SIDES) AND CENTRAL RESERVE FROM SURVEY.

DRAWN : SF	DRAWING STATUS
DESIGN : SF	WORK IN PROGRESS
CHKD : JW	PRELIMINARY DRAWING
APPD : JW	EXTERNAL ISSUE <input checked="" type="checkbox"/>
DATE : 23/09/19	AS-BUILT
SUITABILITY : S2	FOR INFORMATION

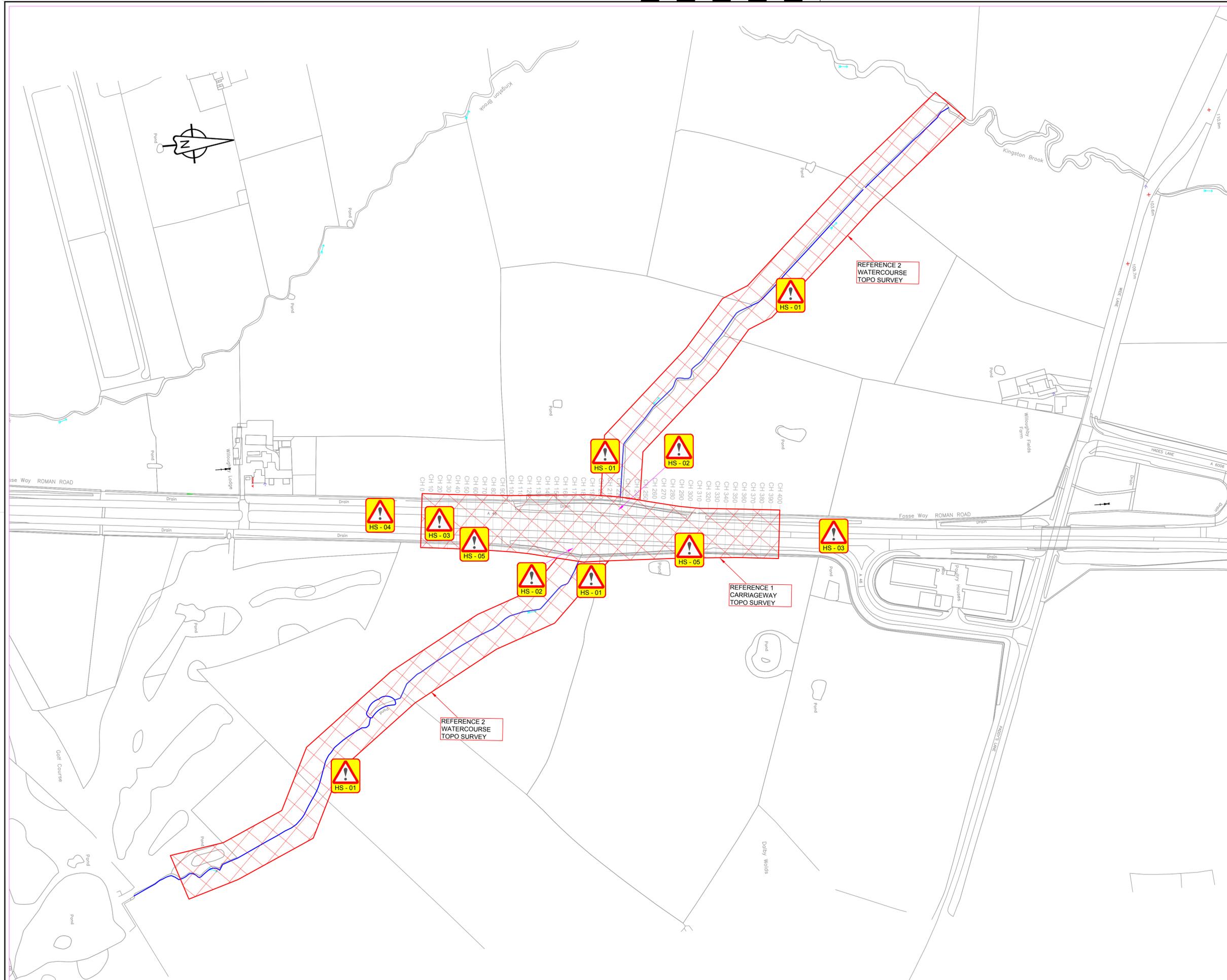
CLIENT 

AGENT 

SCHEME NAME  
**A46 NB SN SIX HILLS  
GEOTECH - WATER EROSION**

DRAWING TITLE  
**TOPOGRAPHIC AND ADDITIONAL  
DRAINAGE SURVEY  
SHEET 3 OF 3**

ORIG DRAWING SIZE : A1	DIMENSIONS : m
COPYRIGHT © KIER	SCALE : 1:1000
DRAWING NUMBER	SCHEME REFERENCE No.
PROJECT   ORIGINATOR   VOLUME	1610179
HE569243 - KIER - VDS	
A46_Z - DR - CD - 0500_03	REVISION
LOCATION   TYPE   ROLE   NUMBER	C01



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