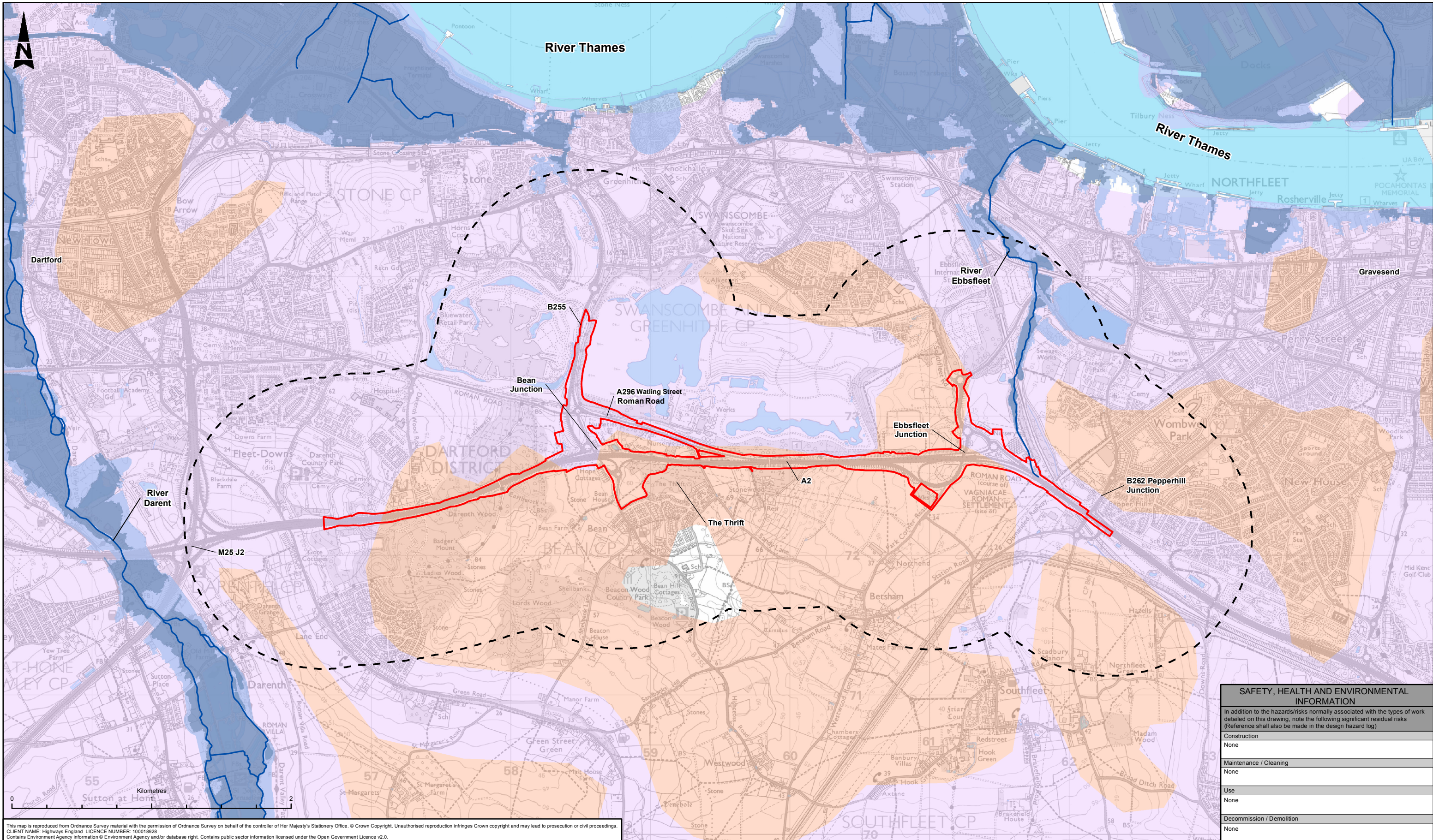


8. Chapter 8 Road Drainage and the Water Environment Figures



This map is reproduced from 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.
 CLIENT NAME: Highways England LICENCE NUMBER: 10018928
 Contains Environment Agency information © Environment Agency and/or database right. Contains public sector information licensed under the Open Government Licence v2.0.

LEGEND

- DCO Boundary
- 1km Study Area
- Principal Aquifer (Bedrock)
- Secondary 'A' Aquifer (Bedrock)
- Flood Zone 3
- Flood Zone 2
- Waterbodies
- River Network

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
Decommission / Demolition	None

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

FOR INFORMATION

ATKINS

Member of the SNC-Lavalin Group

Epsom Gateway
Ashley Avenue
Epsom
Surrey
KT18 5AL

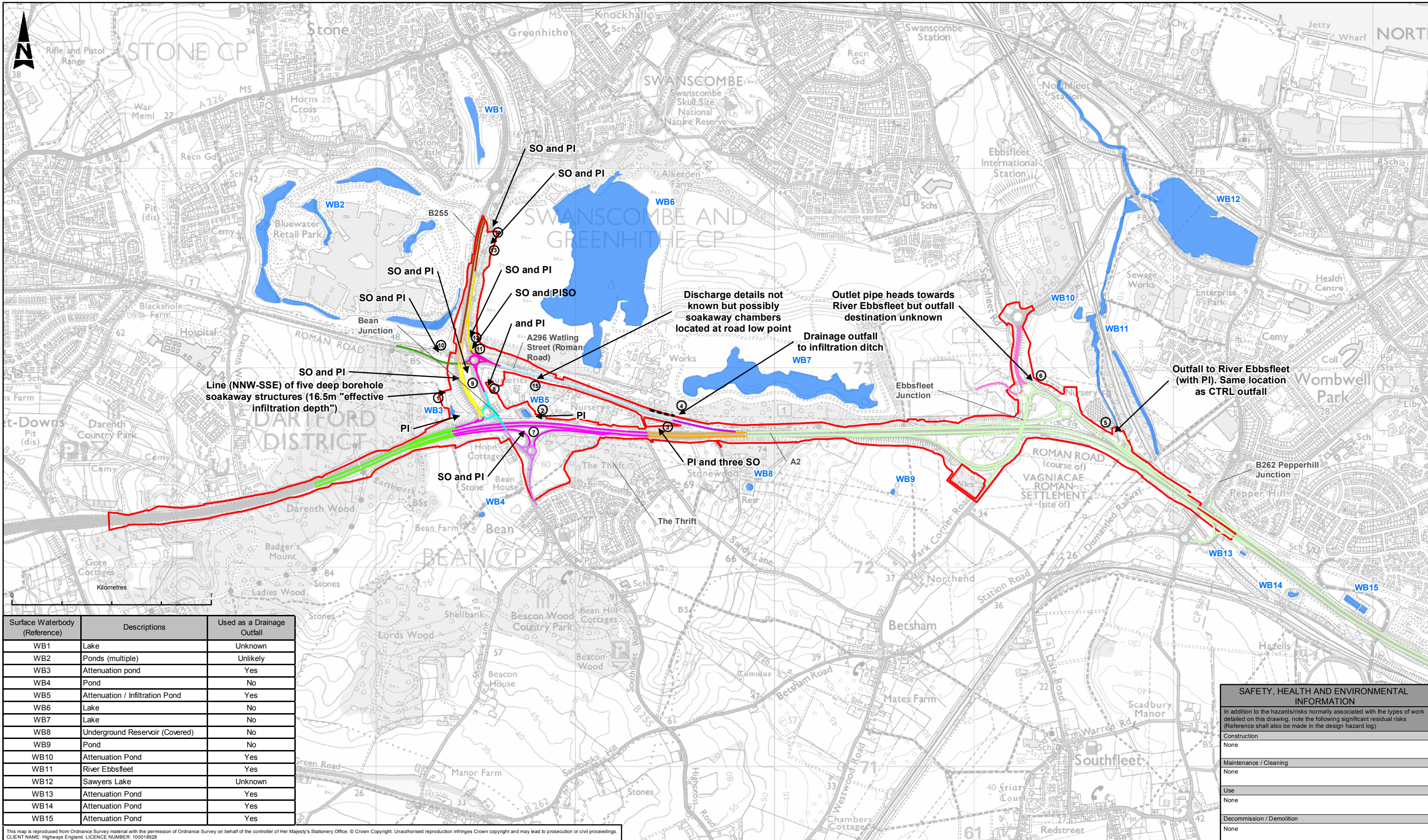
Tel: +44 (0) 1372 726140
Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com

Client

**highways
england**

Project Title	ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbsfleet		
Drawing Title	FIGURE 8.1 WATER ENVIRONMENT		
Drawing Number	Project	Originator	Volume
	HE543917 - ATK - EWE	XX - GS - GI - 000001	
Original Size: A3	Scale: 1:25,000	Project Ref. No: ---	Sheet: 1 of 1
			Rev: P01



Surface Waterbody (Reference)	Descriptions	Used as a Drainage Outfall
WB1	Lake	Unknown
WB2	Ponds (multiple)	Unlikely
WB3	Attenuation pond	Yes
WB4	Pond	No
WB5	Attenuation / Infiltration Pond	Yes
WB6	Lake	No
WB7	Lake	No
WB8	Underground Reservoir (Covered)	No
WB9	Pond	No
WB10	Attenuation Pond	Yes
WB11	River Ebbsfleet	Yes
WB12	Sawyers Lake	Unknown
WB13	Attenuation Pond	Yes
WB14	Attenuation Pond	Yes
WB15	Attenuation Pond	Yes

This map is reproduced from 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. CLIENT NAME: Highways England LICENCE NUMBER: 100018628

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
Decommission / Demolition	None

LEGEND

- DCO Boundary
- Infiltration Ditch
- Waterbodies
- Catchment Outfalls

Catchment Areas

- Catchment 1
- Catchment 2
- Catchment 3
- Catchment 4
- Catchment 5
- Catchment 6
- Catchment 7
- Catchment 8
- Catchment 9
- Catchment 10
- Catchment 11
- Catchment 12
- Catchment 13
- Catchment 14
- Catchment 15

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR INFORMATION	S2	P01	SD	LB	AMB	CH	07/02/18

FOR INFORMATION

ATKINS
Member of the SNC-Lavalin Group

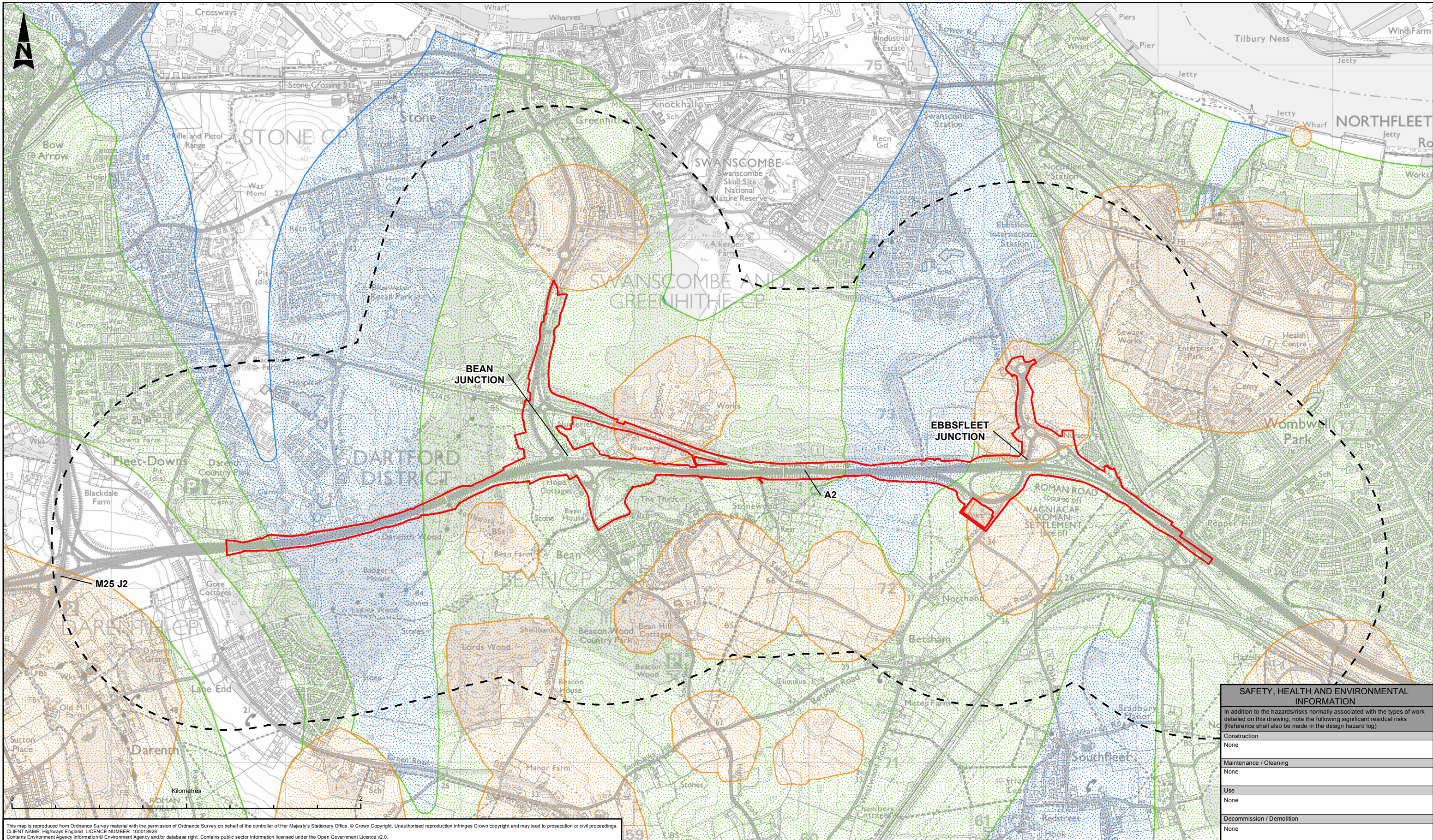
Epsom Gateway
Ashley Avenue
Epsom
Surrey
KT18 5AL

Tel: +44 (0) 1372 726140
Fax: +44 (0) 1372 740055
www.atkinsglobal.com

Copyright © Atkins Limited (2017)

highways england

Project Title	ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbsfleet		
Drawing Title	FIGURE 8.2 EXISTING DRAINAGE		
Drawing Number	Project	Originator	Volume
	HE543917 - ATK - EWE	XX - GS - GI - 000002	1 of 1
Original Size: A3	Scale: 1:17,500	Project Ref. No.:	Sheet: 1 of 1
			Rev: P01



This map is reproduced from 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.
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928
 Contains Environment Agency information © Environment Agency and/or database right. Contains public sector information licensed under the Open Government Licence v2.0.

LEGEND

- DCO Boundary
- 1km Study Area
- Source Protection Zones**
- SPZ 1 - Inner Zone
- SPZ 2 - Outer Protection Zone
- SPZ 3 - Total Catchment

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR INFORMATION	S2	P01	SD	LB	AMB	CH	07/02/18

FOR INFORMATION

ATKINS
 Member of the SNC-Lavalin Group

Epsom Gateway
 Ashley Avenue
 Epsom
 Surrey
 KT18 5AL

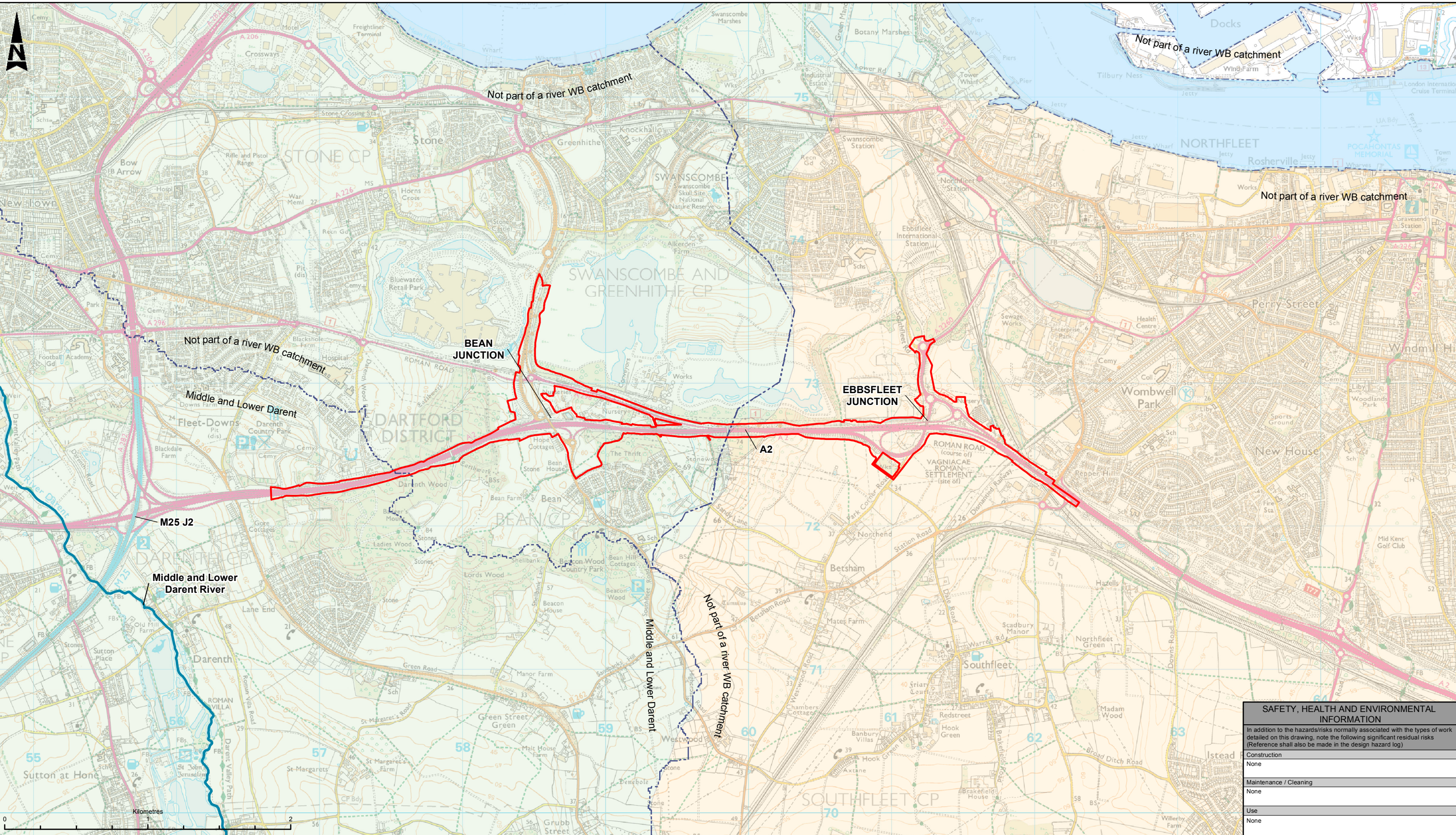
Tel: +44 (0) 1372 726140
 Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com

highways england

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
Decommission / Demolition	None

Project Title	ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbsfleet		
Drawing Title	FIGURE 8.3 GROUNDWATER SOURCE PROTECTION ZONES		
Drawing Number	Project	Originator	Volume
	HE543917 - ATK - EWE	XX - GS - GI - 000003	
Original Size: A3	Scale: 1:20,000	Project Ref. No: ---	Sheet: 1 of 1 Rev: P01



This map is reproduced from 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. CLIENT NAME: Highways England LICENCE NUMBER: 100018928 Contains Environment Agency information © Environment Agency and/or database right. Contains public sector information licensed under the Open Government Licence v2.0.

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
Decommission / Demolition	None

LEGEND

- DCO Boundary
- Coastal Waterbodies (WFD)
- River Catchments (WFD)
- Canal and River Waterbodies (WFD)

Ground Waterbodies (WFD)

- North Kent Medway Chalk
- West Kent Darent and Cray Chalk

FOR INFORMATION

ATKINS
Member of the SNC-Lavalin Group

Epsom Gateway
Ashley Avenue
Epsom
Surrey
KT18 5AL

Tel: +44 (0) 1372 726140
Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com

Client: **highways england**

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
	S2	P01	SD	LB	AMB	CH	07/02/18

Project Title: **ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbsfleet**

Drawing Title: **FIGURE 8.4 WATER FRAMEWORK DIRECTIVE (WFD) FEATURES**

Drawing Number: HE543917 - ATK - EWE XX - GS - GI - 000004

Project: HE543917 - ATK - EWE
Location: XX - GS - GI - 000004

Original Size	Scale	Project Ref. No.	Type	Role	Sheet	Number	Rev.
A3	1:25,000	---	---	---	1 of 1	---	P01