Highways England

A2 Bean and Ebbsfleet Junction Improvements

Technical Appraisal Report Volume 2 - Drawings

25 November 2016

HA543917-HHJV-GEN-PCF-0005

Document Control

The Project Manager is responsible for production of this document, based on the contributions made by his/her team existing at each Stage.

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Author	Philip Paterson
Owner	Hugh Coakley
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1.1	20/09/16	Second external draft for comment	Philip Paterson
1.2	25/11/16	Final draft	Philip Paterson

Reviewer List

Name	Role
Mike Jones	Highways England S&P TAME
Philippa Lewis	Highways England PTS Environment
Nicholas Bentall	Highways England PTS Safer Roads Group
Hugh Coakley	Highways England Integrated Project Team – Project Manager
Andy Salmon	Highways England SRO

Approvals

The Project SRO is accountable for the content of this document.

Name	Signature	Title	Date of Issue	Version
Andy Salmon		Senior Responsible Owner		

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MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0001

MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0002

KEY

- SOUTHERN GAS - LHP MAIN
- SOUTHERN GAS - MP MAIN
- BT OPENREACH - UNDERGOUND CABLE
- BT OPENREACH - OVERHEAD CABLE
- BT OPENREACH - POLE
- SOUTHERN WATER - FOUL WATER
- THAMES WATER - FOUL WATER
- THAMES WATER - SURFACE WATER
- THAMES WATER - WATER MAINS
- THAMES WATER PUMPING STATION / WATER WORKS
- NATIONAL GRID - UNDERGROUND CABLE
- NATIONAL GRID - OVERHEAD CABLE
- UK POWER NETWORKS - EHV
- UK POWER NETWORKS - HV
- UK POWER NETWORKS - LV
- VODAFONE - (Ex Energies)
- VODAFONE - (Other licensed Operator)
- VODAFONE - MAST
- O2 - MAST
- H3G/EE - MAST
- VIRGIN MEDIA
- AREA 4 - LIGHTING CABLE
- AREA 4 - LIGHTING COLUMN
- AREA 4 - SURFACE WATER DRAINAGE
- GENESYS - DUCT OR CABLE ROUTE
- GENESYS - CABINET
- GENESYS - LOOPS
- GENESYS - GANTRY
- GENESYS - EMERGENCY TELEPHONE

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S4	22-02-2016	FOR STAGE APPROVAL	ESM	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING UTILITIES SHEET 1 OF 4

Status	S4
Revision	P1
Scale	1:2500
Date -	11-01-2015
Drawn By	E.S.MILLERSHIP
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA 543917
PIN	
Originator	HHJV
Original Size	A1

Drawing number: VUT-ZZZZ-DR-D-0001

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MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0002

MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0002

MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0003

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P1	S4	22-02-2016	FOR STAGE APPROVAL	ESM	ML	ME

KEY

- SOUTHERN GAS - LHP MAIN
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- GENESYS - DUCT OR CABLE ROUTE
- GENESYS - CABINET
- GENESYS - LOOPS
- GENESYS - GANTRY
- GENESYS - EMERGENCY TELEPHONE

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING UTILITIES SHEET 2 OF 4

	Status: S4		Revision: P1
Scale	1:2500	Date -	11-01-2015
Drawn By	E.S.MILLERSHIP		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1

Drawing number: VUT-ZZZZ-DR-D-0002

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MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0002

MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0003

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MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0003

MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0004

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S4	22-02-2016	FOR STAGE APPROVAL	ESM	ML	ME

KEY

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Client: highways england

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Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING UTILITIES SHEET 3 OF 4

Status	S4
Revision	P1
Scale	1:2500
Date -	11-01-2015
Drawn By	E.S.MILLERSHIP
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917
Originator	HHJV
Original Size	A1

Drawing number: VUT-ZZZZ-DR-D-0003

MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0003

MATCHLINE WITH DRG. No. HA543917-HHJV-VUT-ZZZZ-DR-D-0004

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S4	22-02-2016	FOR STAGE APPROVAL	ESM	ML	ME

Client: highways england

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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING UTILITIES SHEET 4 OF 4

Status	S4	Revision	P1
Scale	1:2500	Date -	11-01-2015
Drawn By	E.S.MILLERSHIP		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA 543917	PIN / Originator HHJV	Original Size	A1

Drawing number: VUT-ZZZZ-DR-D-0004

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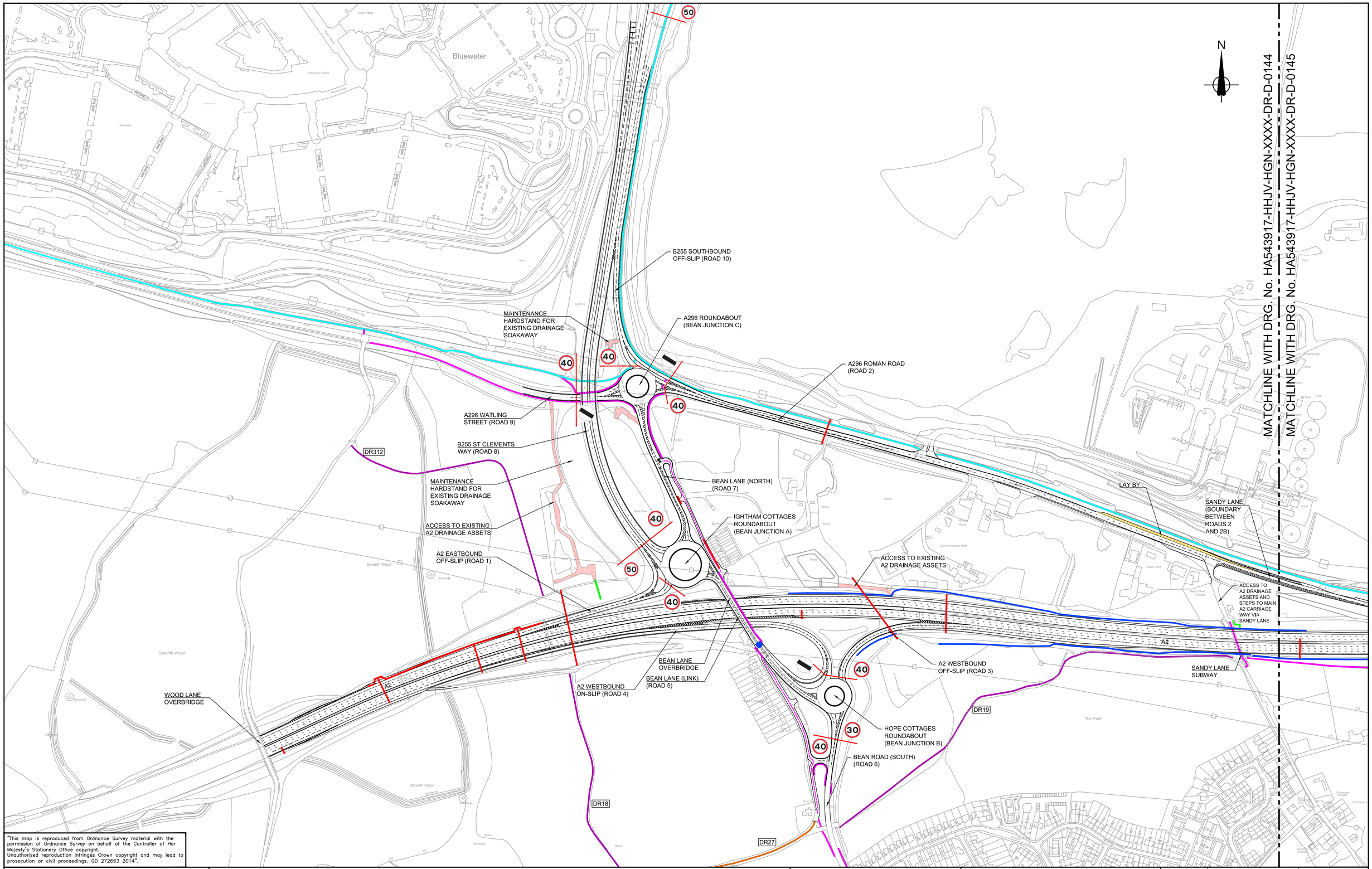

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	02-08-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.1	S0	27-05-2016	FIRST DRAFT	RMS	ML	ME

- TRAFFIC SIGNAL CONTROLLED CROSSING
- EXISTING SIGN AND SIGNAL GANTRY
- FOOTWAY / CYCLEWAY
- FOOTWAY
- SHARED SURFACE / NMU ROUTE
- MAINTENANCE ACCESS STEPS
- LAY BY
- MAINTENANCE ACCESS AND HARDSTAND
- NOISE BARRIER
- 30 SPEED LIMIT CHANGE
- DR18 PUBLIC FOOTPATH
- DR27 BYWAY

0 50 100 150 200 250m
1 : 2500

Client
highways england

Halcrow Hyder Joint Venture
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Tel. +44(0)1793 812479

Project
A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title
EXISTING ROAD LAYOUT
SHEET 1 OF 3

Status	S3
Revision	P1
Scale	1:2500
Date -	02-08-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917 / Originator HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0144

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MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0144

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0145

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0145

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0146

SANDY LANE (BOUNDARY BETWEEN ROADS 2 AND 2B)

A2 EASTBOUND ON-SLIP (ROAD 2B)

ACCESS TO A2 DRAINAGE ASSETS AND STEPS TO MAIN A2 CARRIAGE WAY VIA SANDY LANE

SANDY LANE SUBWAY

SWANSCOMBE FOOTBRIDGE

DS20

DR20

DR128

A2

INTERNATIONAL WAY

B259 SOUTHFLEET ROAD

A2260 ROUNDABOUT (EBBSFLEET JUNCTION D)

A2260 SOUTHFLEET ROAD (ROAD 26)

EBBSFLEET GREEN ACCESS (ROAD 28)

A2 EASTBOUND OFF-SLIP (ROAD 21)

A2 WESTBOUND OFF-SLIP (ROAD 23)

A2 WESTBOUND ON-SLIP (ROAD 24)

PARK CORNER UNDER BRIDGE

ACCESS TO SUBSTATION SITE

PARK CORNER ROAD

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P1	S3	02-08-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.1	S0	27-05-2016	FIRST DRAFT	RMS	ML	ME

- TRAFFIC SIGNAL CONTROLLED CROSSING
- EXISTING SIGN AND SIGNAL GANTRY
- FOOTWAY / CYCLEWAY
- FOOTWAY
- SHARED SURFACE / NMU ROUTE
- MAINTENANCE ACCESS STEPS
- LAY BY
- MAINTENANCE ACCESS AND HARDSTAND
- NOISE BARRIER
- 30 SPEED LIMIT CHANGE
- DR18 PUBLIC FOOTPATH
- DR27 BYWAY

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING ROAD LAYOUT SHEET 2 OF 3

Status	S3
Revision	P1
Scale	1:2500
Date -	02-08-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0145

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0145

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0146

INTERNATIONAL WAY

A2260 EBBSFLEET GATEWAY

B259 SOUTHFLEET ROAD

A2260 ROUNDABOUT (EBBSFLEET JUNCTION D)

A2260 SOUTHFLEET ROAD (ROAD 26)

EBBSFLEET WESTERN ROUNDABOUT (EBBSFLEET JUNCTION C)

INTERCHANGE LINK (ROAD 25)

EBBSFLEET EASTERN ROUNDABOUT (EBBSFLEET JUNCTION B)

EBBSFLEET GREEN ACCESS (ROAD 28)

A2 EASTBOUND OFF-SLIP (ROAD 21)

ACCESS TO SUB STATION SITE

PEPPERHILL LINK ROAD (ROAD 27)

ACCESS TO SPRINGHEAD NURSERY AND CTRL MAINTENANCE AREA, ACCESS TO DRAINAGE OUTLETS

A2 EASTBOUND ON-SLIP (ROAD 22)

PARK CORNER UNDER BRIDGE

ACCESS TO SUBSTATION SITE

PARK CORNER ROAD

CTRL TUNNEL

PEPPERHILL OVERBRIDGE

NU14

NU20

NU14

NU19

NU47

DR129

50

30

N

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TRAFFIC SIGNAL CONTROLLED CROSSING

EXISTING SIGN AND SIGNAL GANTRY

FOOTWAY / CYCLEWAY

FOOTWAY

SHARED SURFACE / NMU ROUTE

MAINTENANCE ACCESS STEPS

LAY BY

MAINTENANCE ACCESS AND HARDSTAND

NOISE BARRIER

SPEED LIMIT CHANGE

DR18 PUBLIC FOOTPATH

DR27 BYWAY

0 50 100 150 200 250m

1 : 2500

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	02-08-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.1	S0	27-05-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

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Burderop Park
Swindon, SN4 0QD
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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING ROAD LAYOUT SHEET 3 OF 3

Status	S3
Revision	P1
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Date -	02-08-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN / Originator	543917 / HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0146

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	12-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	09-08-2016	FIRST DRAFT	RMS	ML	ME

0 50 100 150 200 250m

1 : 2500

Client

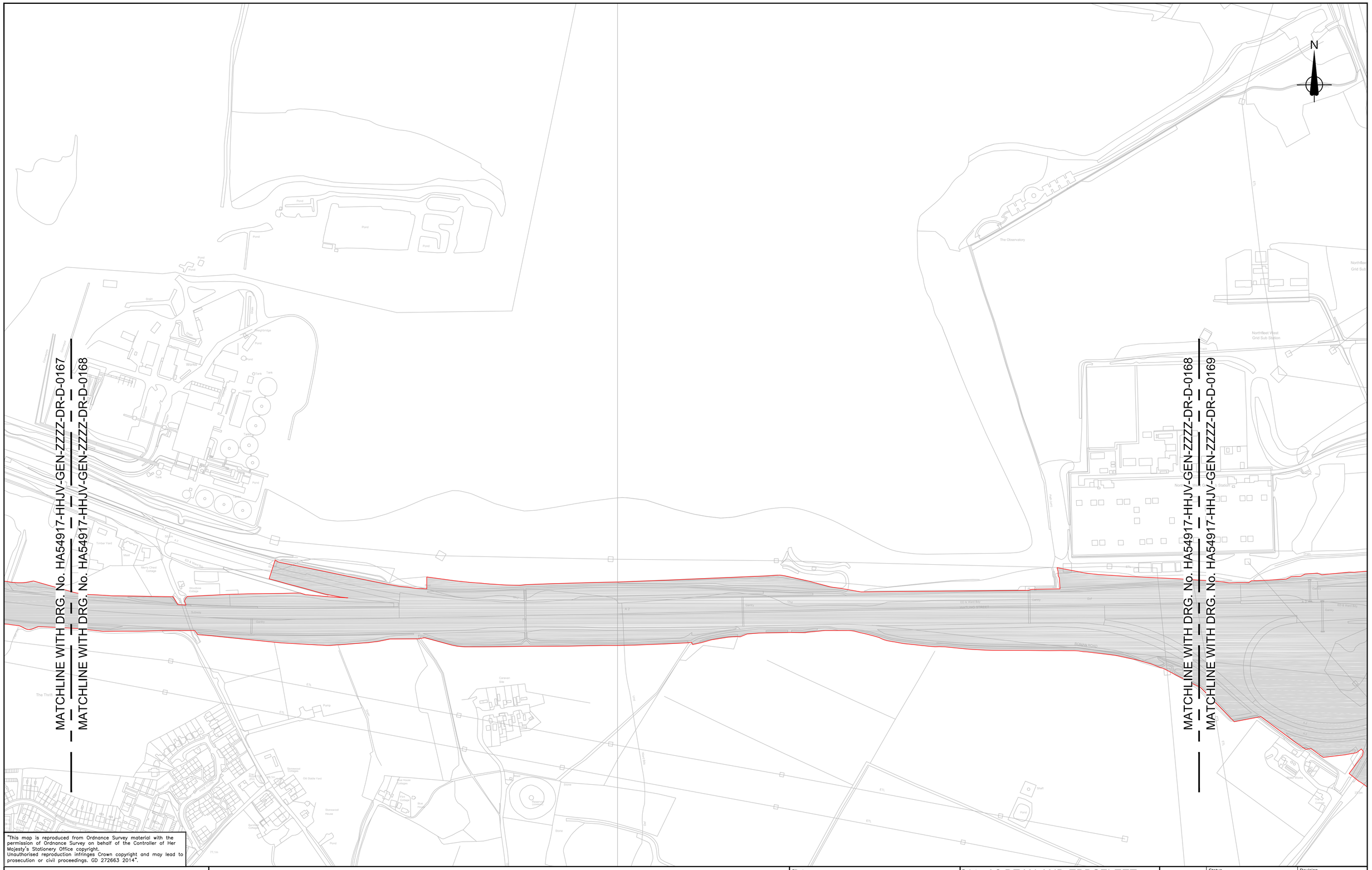
highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project
A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title
HIGHWAYS ENGLAND
EXISTING MAINTENANCE AREA
SHEET 1 OF 4

Status	S3
Revision	P1
Scale	1:2500
Date -	12-08-2016
Drawn By	RAVITEJA M S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917 / Originator HHJV
Original Size	A1
Drawing number	GEN-ZZZZ-DR-D-0167



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	12-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	09-08-2016	FIRST DRAFT	RMS	ML	ME

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HIGHWAYS ENGLAND EXISTING MAINTENANCE AREA SHEET 2 OF 4

Status	S3	Revision	P1
Scale	1:2500	Date -	12-08-2016
Drawn By	RAVITEJA M S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1

Drawing number: GEN-ZZZZ-DR-D-0168

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MATCHLINE WITH DRG. No. HA54917-HHJV-GEN-ZZZZ-DR-D-0168

MATCHLINE WITH DRG. No. HA54917-HHJV-GEN-ZZZZ-DR-D-0169

MATCHLINE WITH DRG. No. HA54917-HHJV-GEN-ZZZZ-DR-D-0169

MATCHLINE WITH DRG. No. HA54917-HHJV-GEN-ZZZZ-DR-D-0170

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	12-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	09-08-2016	FIRST DRAFT	RMS	ML	ME

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HIGHWAYS ENGLAND EXISTING MAINTENANCE AREA SHEET 3 OF 4

Status	S3	Revision	P1
Scale	1:2500	Date -	12-08-2016
Drawn By	RAVITEJA M S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA PIN	543917	Originator	HHJV
Original Size	A1		

Drawing number: GEN-ZZZZ-DR-D-0169

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MATCHLINE WITH DRG. No. HA54917-HHJV-GEN-ZZZZ-DR-D-0169

MATCHLINE WITH DRG. No. HA54917-HHJV-GEN-ZZZZ-DR-D-0170

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	12-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	09-08-2016	FIRST DRAFT	RMS	ML	ME

0 50 100 150 200 250m

1 : 2500

Client

highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Halcrow Hyder

Project
A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title
HIGHWAYS ENGLAND
EXISTING MAINTENANCE AREA
SHEET 4 OF 4

	Status S3	Revision P1	
Scale	1:2500	Date - 12-08-2016	
Drawn By	RAVITEJA M S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA 543917	PIN HHJV	Originator	Original Size A1

Drawing number
GEN-ZZZZ-DR-D-0170

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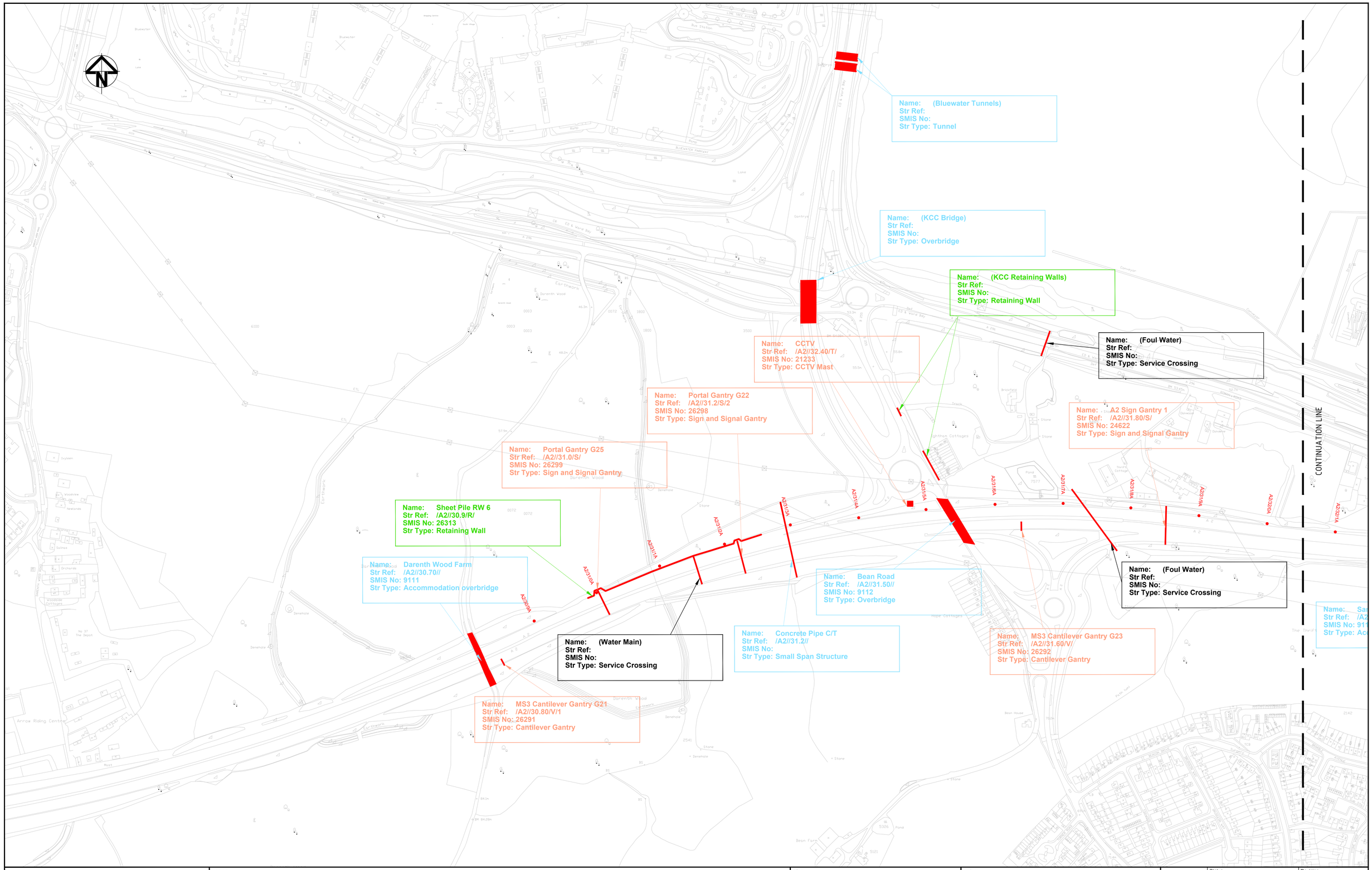

NOTES:

1. KNOWN STRUCTURES NOT OWNED BY HE ARE SHOWN IN BRACKETS

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P1	13/07/2016	FOR INFORMATION	QM	GH	GH
P1.1	02/11/2015	FOR INFORMATION	QM	GH	GH

Client: highways england

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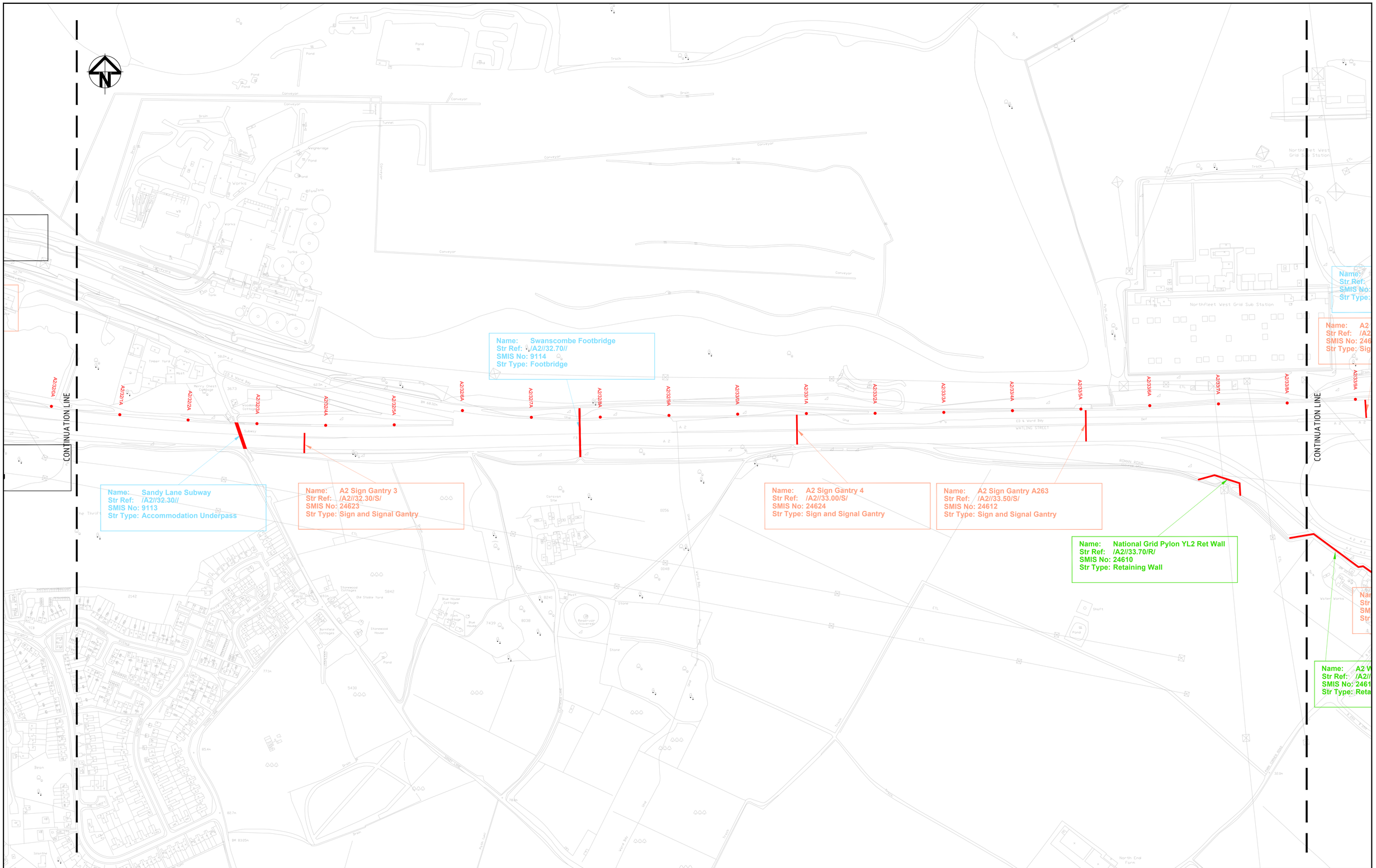
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING STRUCTURES KEY PLAN SHEET 1 OF 3

Status	S4	Revision	P1
Scale	1:2500 @ A1	Date -	02-11-2015
Drawn By	Q.MAHMOOD		
Checked By	G.HUNT		
Approved By	G.HUNT		
Project No.	HA PIN HA543917 I Originator HHJV	Original Size	A1
Drawing number	SGN-ZZZZ-DR-Z-1700		

K:\UA006811 A2 junctions improvements\E:Our\Drawings\Pepperhill Retaining Walls\HA543917-HHJV-SGN-ZZZZ-DR-Z-1700.dwg - 13/07/2016 10:37:32 - 1700 - qma49888



NOTES:

1. KNOWN STRUCTURES NOT OWNED BY HE ARE SHOWN IN BRACKETS

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P1	13/07/2016	FOR INFORMATION	QM	GH	GH
P1.1	02/11/2015	FOR INFORMATION	QM	GH	GH

Client: highways england

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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING STRUCTURES KEY PLAN SHEET 2 OF 3

Status	S4
Revision	P1
Scale	1:2500 @ A1
Date -	02-11-2015
Drawn By	Q.MAHMOOD
Checked By	G.HUNT
Approved By	G.HUNT
Project No.	HA PIN HA543917 I Originator HHJV
Original Size	A1
Drawing number	SGN-ZZZZ-DR-Z-1701

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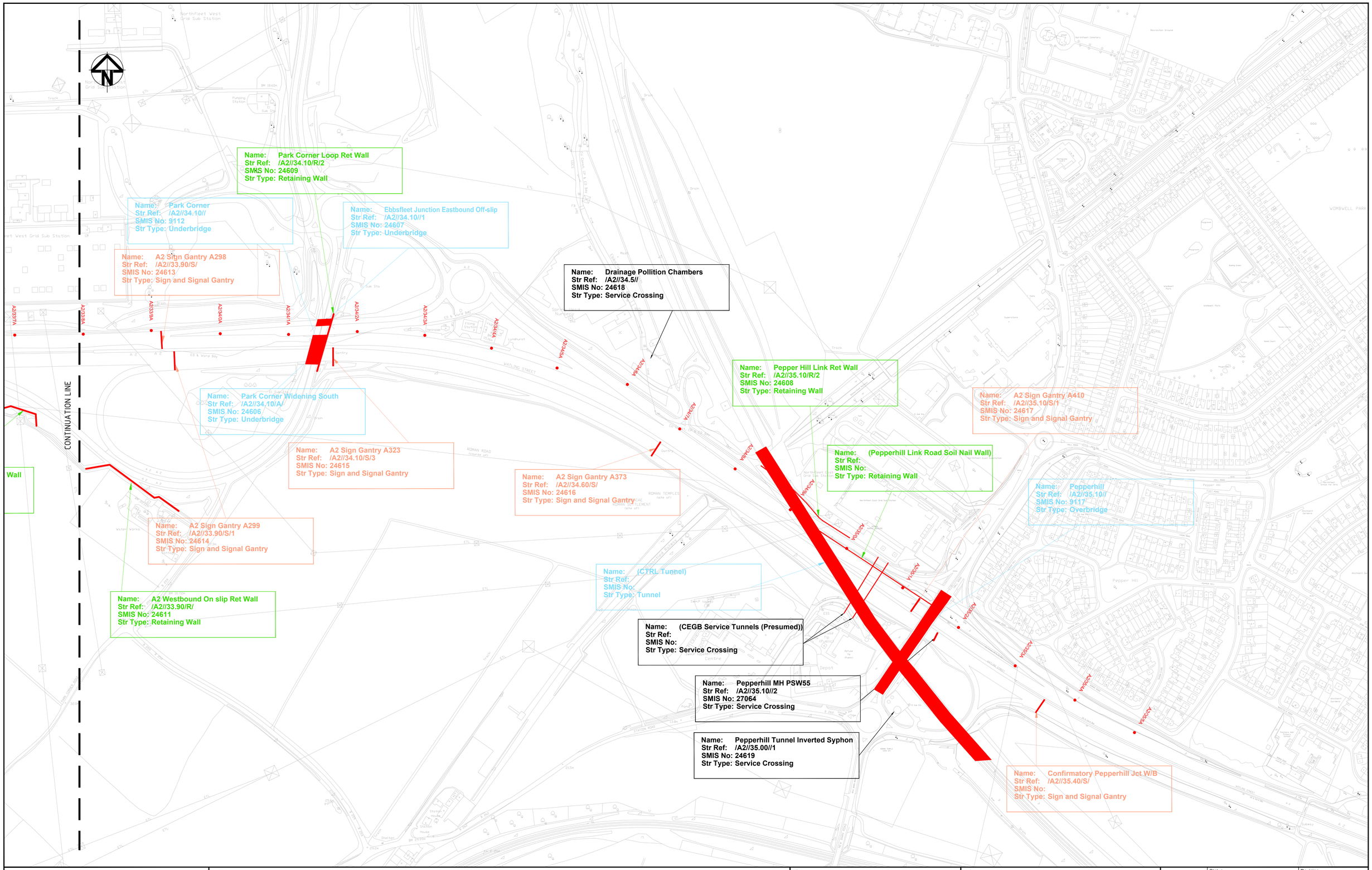

NOTES:

1. KNOWN STRUCTURES NOT OWNED BY HE ARE SHOWN IN BRACKETS

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P1	13/07/2016	FOR INFORMATION	QM	GH	GH
P1.1	02/11/2015	FOR INFORMATION	QM	GH	GH

Client: highways england

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Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING STRUCTURES KEY PLAN SHEET 3 OF 3

Status	S4	Revision	P1
Scale	1:2500 @ A1	Date -	02-11-2015
Drawn By	Q.MAHMOOD		
Checked By	G.HUNT		
Approved By	G.HUNT		
Project No.	HA PIN / Originator: HA543917 HHJV	Original Size	A1
Drawing number	SGN-ZZZZ-DR-Z-1702		

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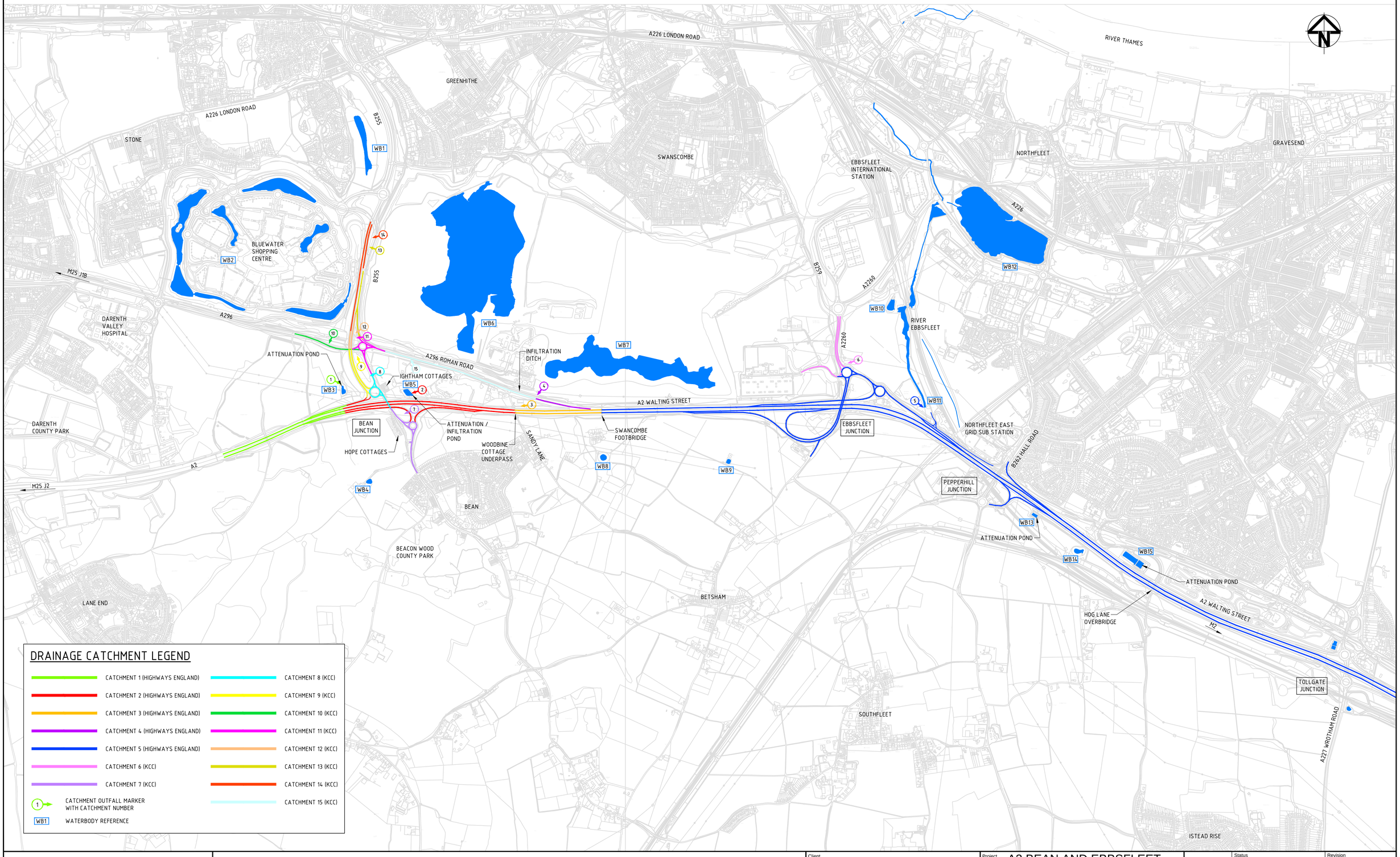

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	08/08/16	For review and comment	WL	SW	ME
P1.2	S0	29/06/16	Minor Changes	WL	SW	ME
P1.1	S0	12/05/16	Drawing Created	WL	SW	ME

Client: highways england

Halcrow Hyder Joint Venture
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Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EXISTING WATERBODIES AND DRAINAGE CATCHMENT PLAN

Status	S3	Revision	P1
Scale	10,000	Date -	08-08-2016
Drawn By	W.LI		
Checked By	S.WARREN		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1
Drawing number	HDG-ZZZZ-DR-D-0001		01

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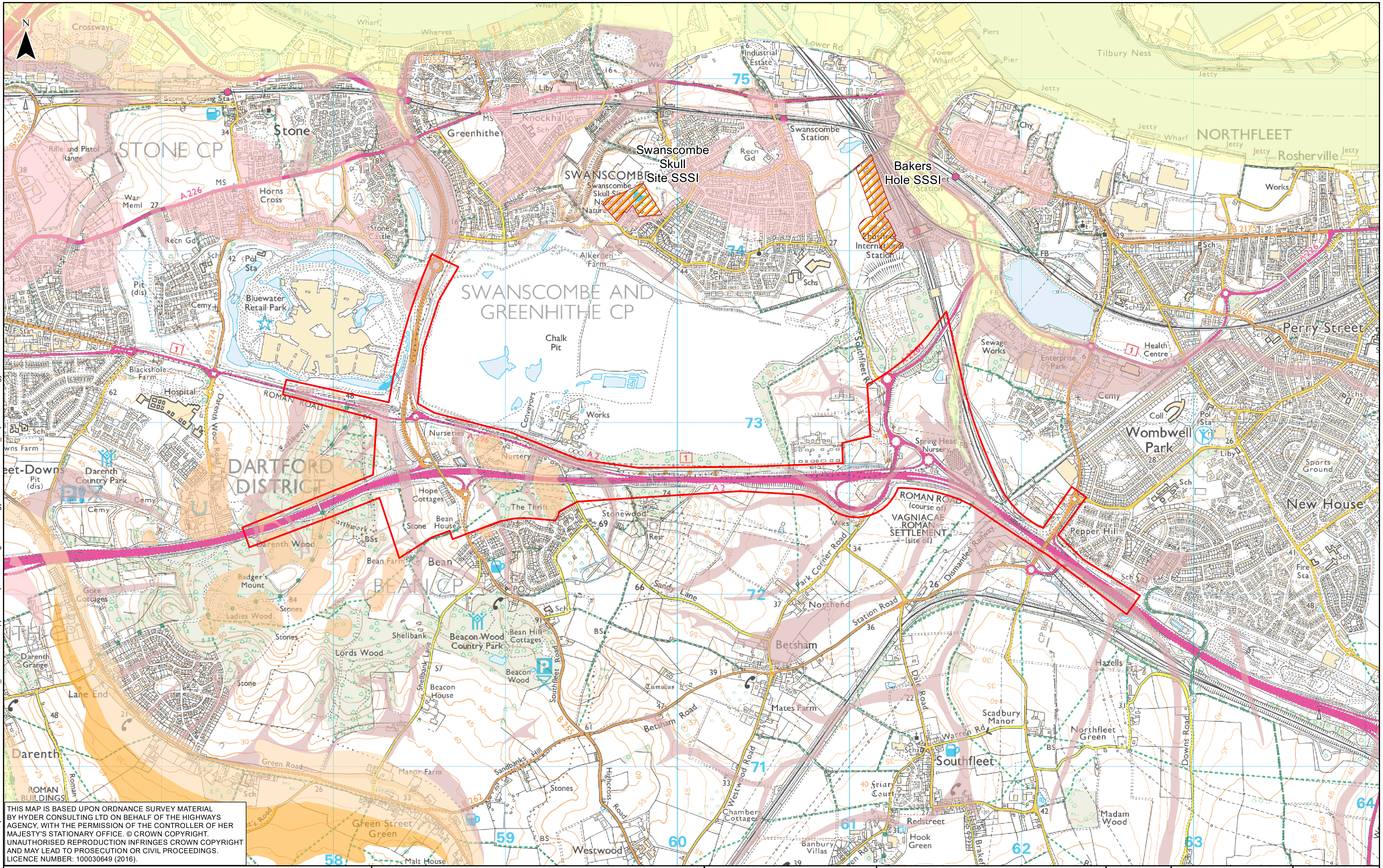

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0 0.5 1 Kilometers

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P01	19/09/2016	FINAL	SD	GS	JB

KEY

- SCHEME LIMIT
- SITE OF SPECIAL SCIENTIFIC INTEREST-SSSI
- ALLUVIUM-SILT
- BOYN HILL GRAVEL MEMBER-SAND AND GRAVEL
- BLACK PARK GRAVEL MEMBER-SAND AND GRAVEL
- HEAD-CLAY
- HEAD-SAND AND CLAY
- LYNCH HILL GRAVEL MEMBER-SAND AND GRAVEL
- RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)-SAND AND GRAVEL
- TAPLOW GRAVEL FORMATION-SAND AND GRAVEL
- TIDAL RIVER OR CREEK DEPOSITS-SILT

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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: SUPERFICIAL GEOLOGY

Status	S3
Revision	P01
Scale	1:20,000
Date	19/09/2016
Drawn By	SD
Checked By	GS
Approved By	JB
Project No.	HA543917
Originator	HHJV
Original Size	A3
Drawing number	HA543917-HHJV-HGT-ZZZZ-DR-GE-0007

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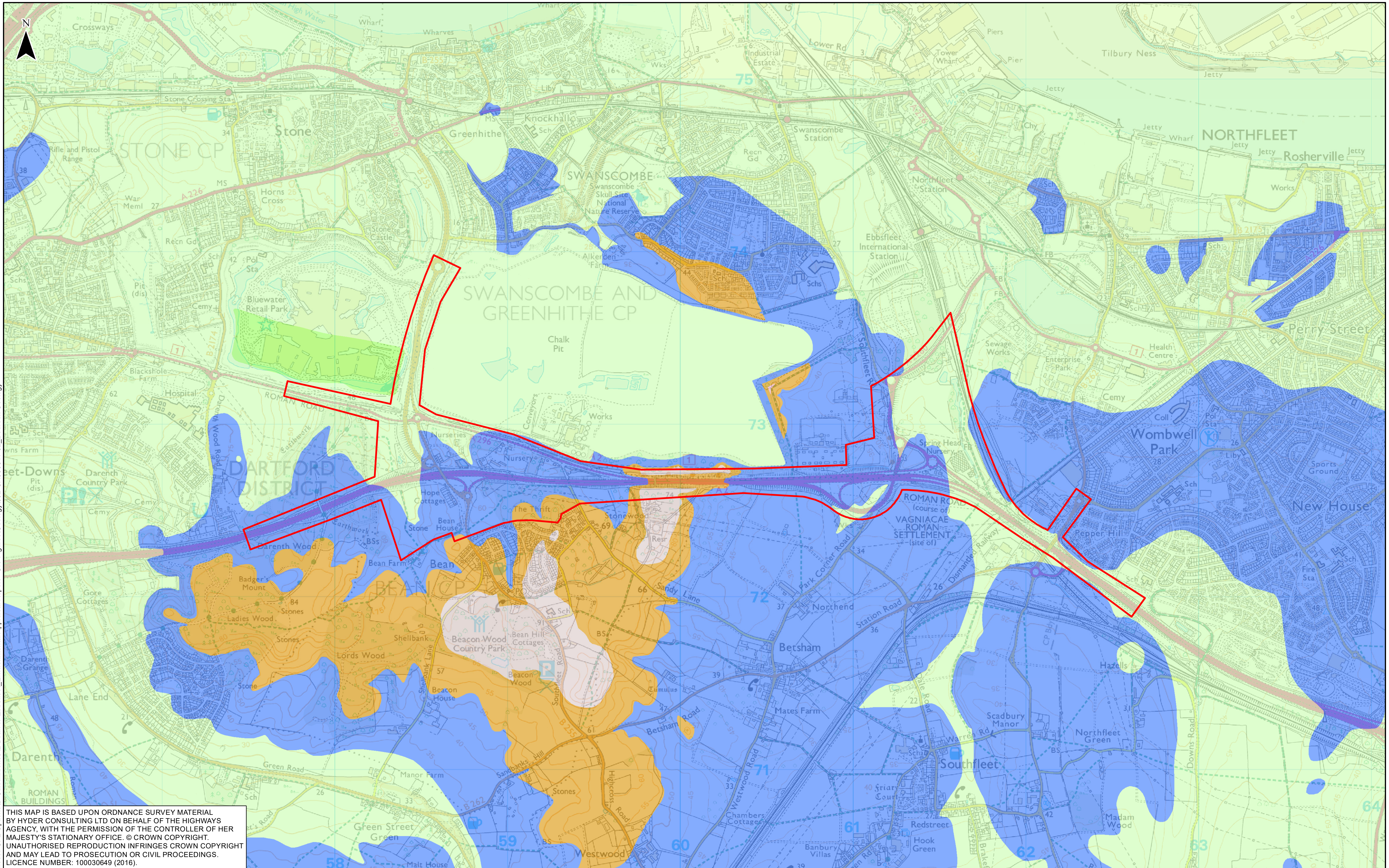

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0 0.5 1 Kilometers

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P01	19/19/2016	FINAL	SD	GS	JB

KEY

- SCHEME LIMIT
- CHALK GROUP-CHALK
- HARWICH FORMATION-GRAVEL
- LONDON CLAY FORMATION-CLAY
- LEWES NODULAR CHALK FORMATION-CHALK
- LAMBETH GROUP-SAND AND CLAY
- SEAFORD CHALK FORMATION-CHALK
- THANET SAND FORMATION-SAND

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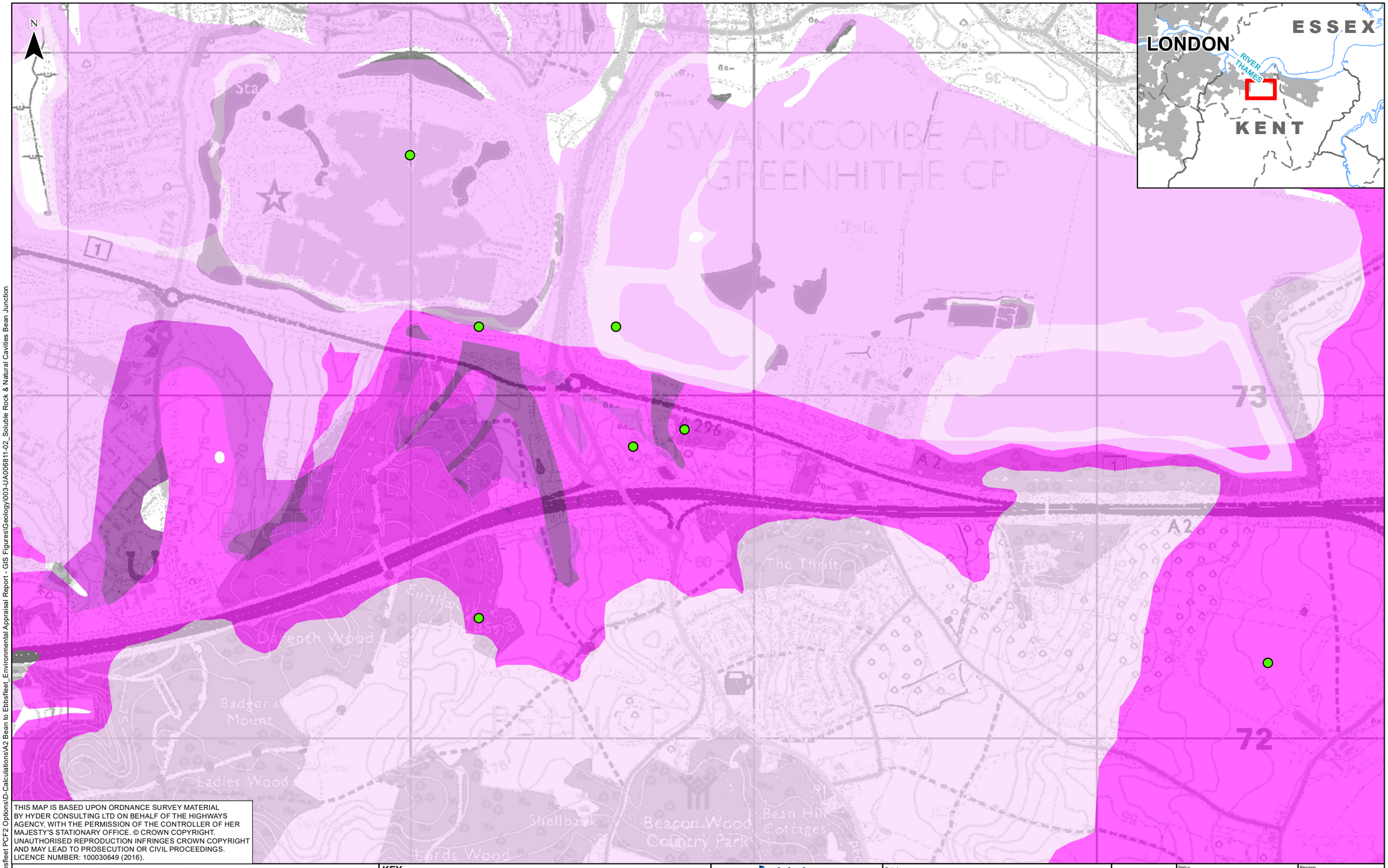
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEDROCK GEOLOGY

Status	S3
Revision	P01
Scale	1:20,000
Date	19/09/2016
Drawn By	SD
Checked By	GS
Approved By	JB
Project No.	HA543917
Originator	HHJV
Original Size	A3
Drawing number	HA543917-HHJV-HGT-ZZZZ-DR-GE-0008



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0 0.25 0.5 Kilometers

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P01	19/09/2016	FINAL	SD	GS	JB

KEY

- NATURAL CAVITY

SOLUBLE ROCKS

- A
- B
- C
- D
- E

highways england

Halcrow Hyder Joint Venture
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Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: SOLUBLE ROCK AND NATURAL CAVITIES BEAN JUNCTION

Status	S3	Revision	P01
Scale	1:10,000	Date	19/09/2016
Drawn By	SD		
Checked By	GS		
Approved By	JB		
Project No.	HA543917	Originator	HHJV
Original Size	A3		

Drawing number: HA543917-HHJV-HGT-ZZZZ-DR-GE-0009

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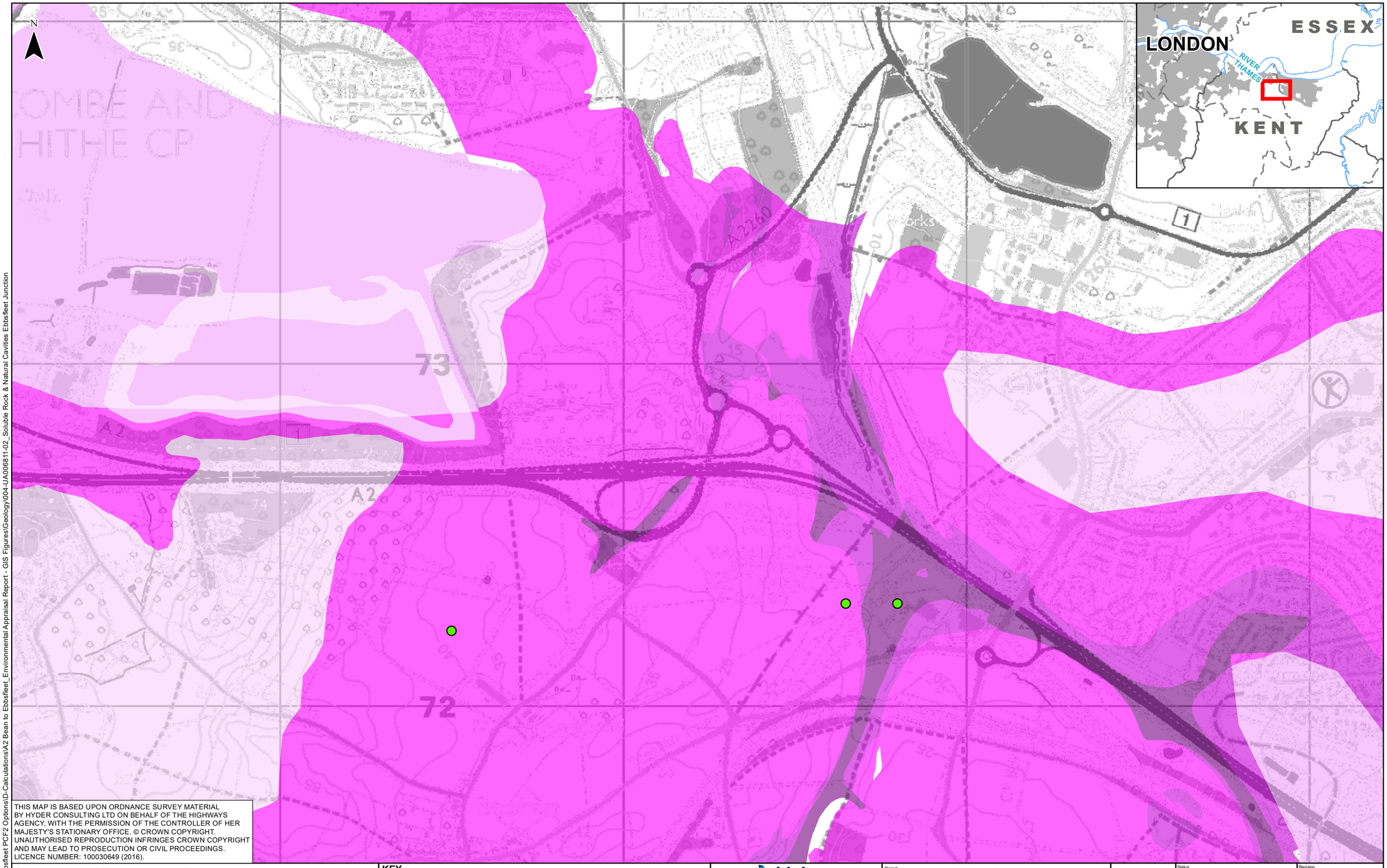

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0 0.25 0.5 Kilometers

KEY

- NATURAL CAVITY

SOLUBLE ROCKS

- A
- B
- C
- D
- E

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P01	19/09/2016	FINAL	SD	GS	JB

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Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: SOLUBLE ROCK AND NATURAL CAVITIES EBBSFLEET JUNCTION

Status	S3	Revision	P01
Scale	1:10,000	Date	19/09/2016
Drawn By	SD		
Checked By	GS		
Approved By	JB		
Project No.	HA543917	Originator	HHJV
Original Size	A3		

Drawing number: HA543917-HHJV-HGT-ZZZZ-DR-GE-0010

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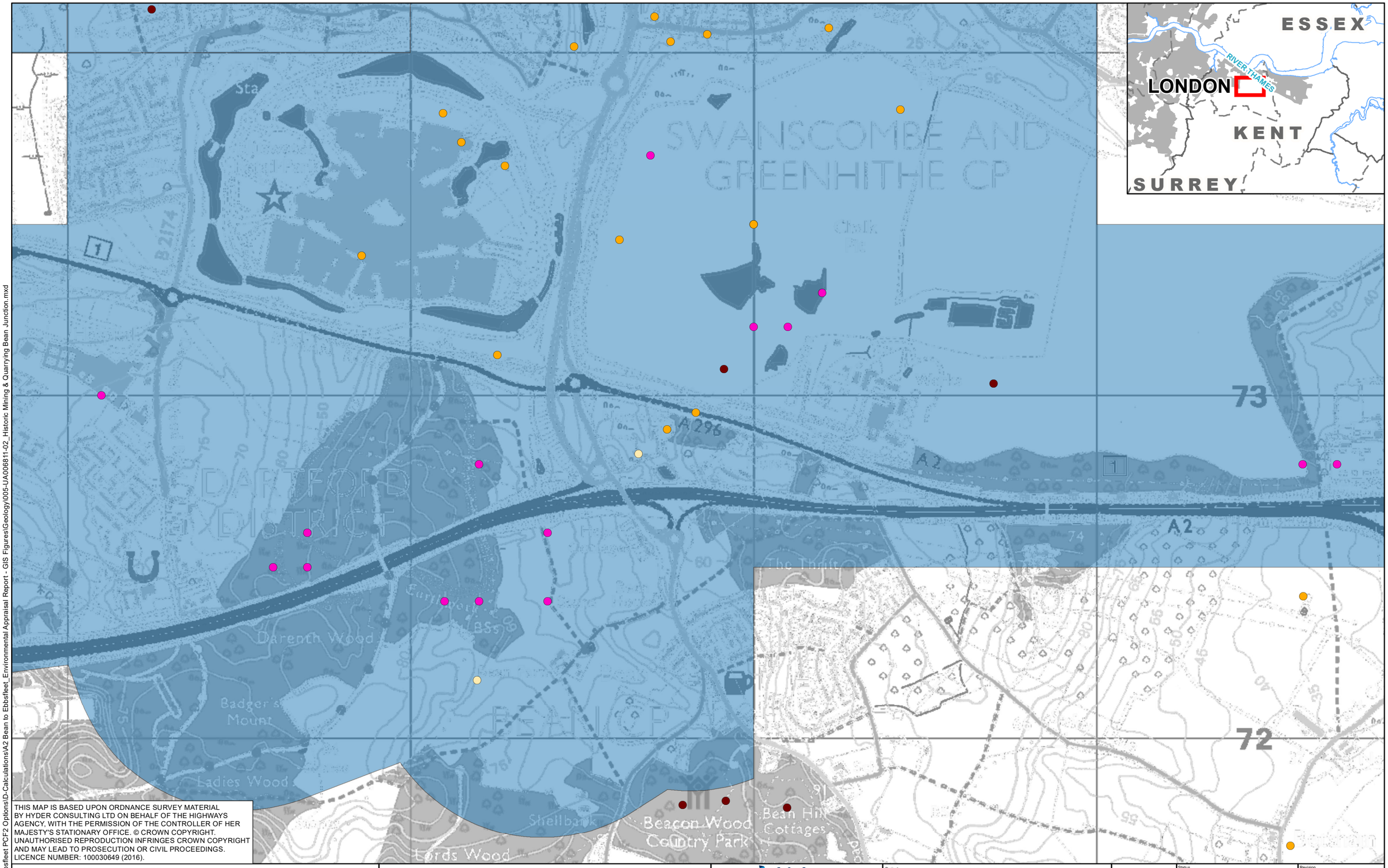

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0 10 20 Kilometers

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P01	19/09/2016	FINAL	SD	GS	JB

KEY

BRITPITS
- CHALK
- CLAY & SHALE
- FLINT
- SAND
- MAN MADE MINING CAVITIES

CONCLUSIVE ROCK MINING

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Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HISTORIC MINING AND QUARRYING BEAN JUNCTION

Status	S3	Revision	P01
Scale	1:10,000	Date	19/09/2016
Drawn By	SD		
Checked By	GS		
Approved By	JB		
Project No.	HA543917	Originator	HHJV
Original Size	A3		

Drawing number: HA543917-HHJV-HGT-ZZZZ-DR-GE-0011

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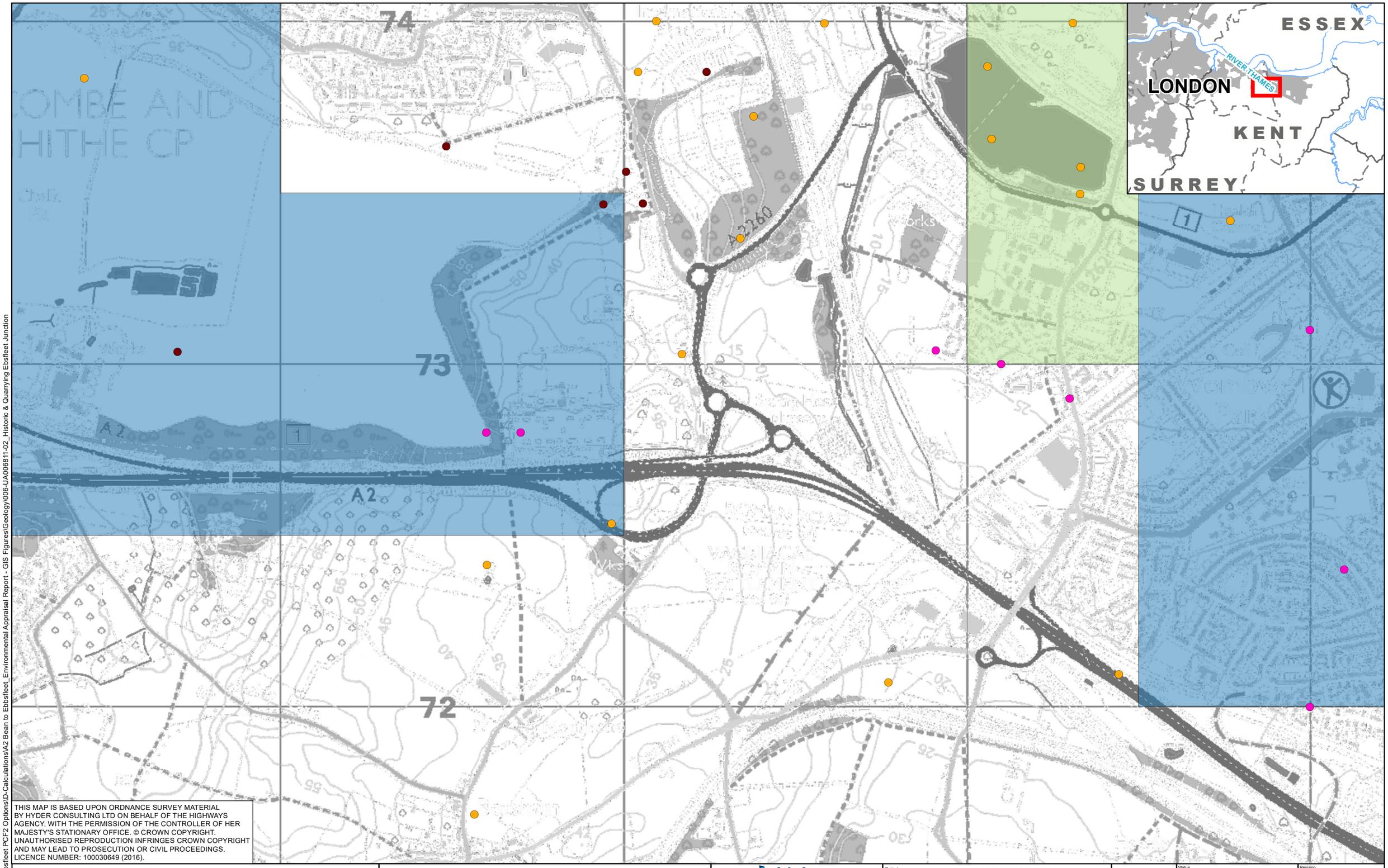

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0 10 20 Kilometers

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P01	19/09/2016	FINAL	SD	GS	JB

KEY

BRITPITS

- CHALK
- CLAY & SHALE
- MAN MADE MINING CAVITIES
- CONCLUSIVE ROCK MINING
- INCONCLUSIVE ROCK MINING

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Halcrow Hyder Joint Venture
Burderop Park
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Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HISTORIC MINING AND QUARRYING EBBSFLEET JUNCTION

Status	S3	Revision	P01
Scale	1:10,000	Date	19/09/2016
Drawn By	SD		
Checked By	GS		
Approved By	JB		
Project No.	HA543917	Originator HHJV	Original Size A3

Drawing number: HA543917-HHJV-HGT-ZZZZ-DR-GE-0012

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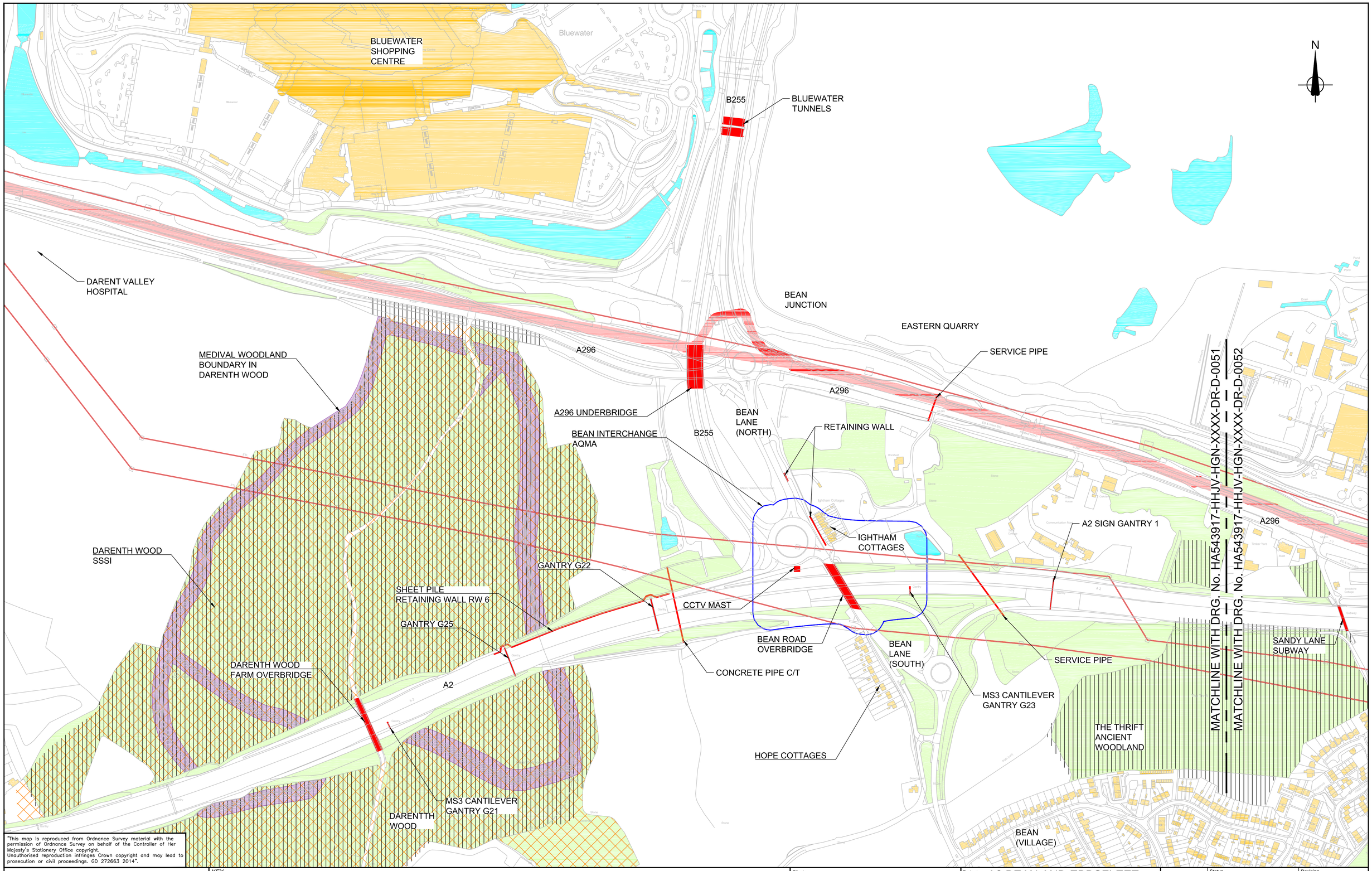

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	11-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	31-03-2016	FIRST DRAFT	RMS	ML	ME

KEY

- ANCIENT WOODLAND
- AQMA BOUNDARY
- WATERBODIES
- WOODLAND
- BUILDINGS
- COUNTRY PARK
- RAILWAY LINE
- KENT WILDLIFE SITE AT BEACONS WOOD COUNTY PARK AND AT EBBSFLEET
- LISTED BUILDINGS
- SCHEDULED ANCIENT MONUMENT
- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK
- OVERHEAD POWER LINES
- SSSI
- STRUCTURES

NOTES:
1. ADDITIONAL CONSTRAINTS ARE SHOWN ON THE STATUTORY UNDERTAKERS SERVICES DRAWINGS HA543917-HHJV-VUT-ZZZZ-DR-D-0001 TO 0004 AND HAZARD MAP DRAWINGS HA543917-HHJV-GEN-XXXX-DR-D-0031 TO 0034

0 50 100 150 200 250m
1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: ENGINEERING CONSTRAINT PLAN SHEET 1 OF 4

Status	S3
Revision	P1
Scale	1:2500
Date -	11-08-2016
Drawn By	RAVITEJA M S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917 / Originator HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0051

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0051-0054.dwg - 8/11/2016 5:17:59 PM - 0051 - sri00423

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MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0051

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0052

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0052

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0053

A296

A2 EASTBOUND ON SLIP

SWANSCOMBE FOOTBRIDGE GRADE II LISTED STRUCTURE

A2

SANDY LANE SUBWAY

A2 SIGN GANTRY 3

A2 SIGN GANTRY 4

A2 SIGN GANTRY A263

NORTHFLEET WEST GRID SUB STATION - DEMOLISHED

A2 SIGN GANTRY A298

A2 SIGN GANTRY A299

PARK LANE CORNER

NATIONAL GRID PYLON YL2 RETAINING WALL

A2 WESTBOUND ON SLIP RETAINING WALL

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	11-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	31-03-2016	FIRST DRAFT	RMS	ML	ME

KEY

- ANCIENT WOODLAND
- AQMA BOUNDARY
- WATERBODIES
- WOODLAND
- BUILDINGS
- COUNTRY PARK
- RAILWAY LINE
- KENT WILDLIFE SITE AT BEACONS WOOD COUNTY PARK AND AT EBBSFLEET
- LISTED BUILDINGS
- SCHEDULED ANCIENT MONUMENT
- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK OVERHEAD POWER LINES
- SSSI
- STRUCTURES

NOTES:
1. ADDITIONAL CONSTRAINTS ARE SHOWN ON THE STATUTORY UNDERTAKERS SERVICES DRAWINGS HA543917-HHJV-VUT-ZZZZ-DR-D-0001 TO 0004 AND HAZARD MAP DRAWINGS HA543917-HHJV-GEN-XXXX-DR-D-0031 TO 0034

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: ENGINEERING CONSTRAINT PLAN SHEET 2 OF 4

Status	S3
Revision	P1
Scale	1:2500
Date	11-08-2016
Drawn By	RAVITEJA M S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA 543917
PIN / Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0052

EBBSFLEET INTERNATIONAL TRAIN STATION

B259

A2260

A2260

EBBSFLEET JUNCTION EAST BOUND OFF SLIP UNDERBRIDGE

EBBSFLEET JUNCTION

A2260

A2 SIGN GANTRY A298

A2

A2 SIGN GANTRY A299

PARK CORNER UNDERBRIDGE

PARK CORNER LOOP RETAINING WALL

A2 SIGN GANTRY A323

PARK CORNER WIDENING SOUTH

PARK LANE CORNER

A2 SIGN GANTRY A373

A2 WESTBOUND ON SLIP RETAINING WALL

SPRINGHEAD ROMAN SITE

CHANEL TUNNEL RAIL LINK

DRAINAGE POLLUTION CHAMBERS

GRAVESHAM A2 AQMA

CTRL TUNNEL

PEPPER HILL RETAINING WALL & SOIL NAIL WALL

NORTHFLEET EAST GRID SUB STATION

CEGB SERVICE TUNNELS

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0052

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0053

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0053

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0054

N

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KEY

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- SSSI
- STRUCTURES

NOTES:
1. ADDITIONAL CONSTRAINTS ARE SHOWN ON THE STATUTORY UNDERTAKERS SERVICES DRAWINGS HA543917-HHJV-VUT-ZZZZ-DR-D-0001 TO 0004 AND HAZARD MAP DRAWINGS HA543917-HHJV-GEN-XXXX-DR-D-0031 TO 0034

0 50 100 150 200 250m

1 : 2500

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	11-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	31-03-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: ENGINEERING CONSTRAINT PLAN SHEET 3 OF 4

Status	S3	Revision	P1
Scale	1:2500	Date -	11-08-2016
Drawn By	RAVITEJA M S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA 543917	PIN	Originator HHJV	Original Size A1

Drawing number: HGN-XXXX-DR-D-0053

N:\Highways\UK\RUB0018B3-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0051-0054.dwg - 8/11/2016 5:18:10 PM - 0053 - sri00423

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0053

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0054

A2 SIGN GANTRY
A410

PEPPERHILL
OVERBRIDGE

CTRL TUNNEL

CONFIRMATORY
PEPPERHILL
JUNCTION W/B
GANTRY

N

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KEY

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- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK OVERHEAD POWER LINES
- SSSI
- STRUCTURES

NOTES:
1. ADDITIONAL CONSTRAINTS ARE SHOWN ON THE STATUTORY UNDERTAKERS SERVICES DRAWINGS HA543917-HHJV-VUT-ZZZZ-DR-D-0001 TO 0004 AND HAZARD MAP DRAWINGS HA543917-HHJV-GEN-XXXX-DR-D-0031 TO 0034

0 50 100 150 200 250m

1 : 2500

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	11-08-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.1	S0	31-03-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

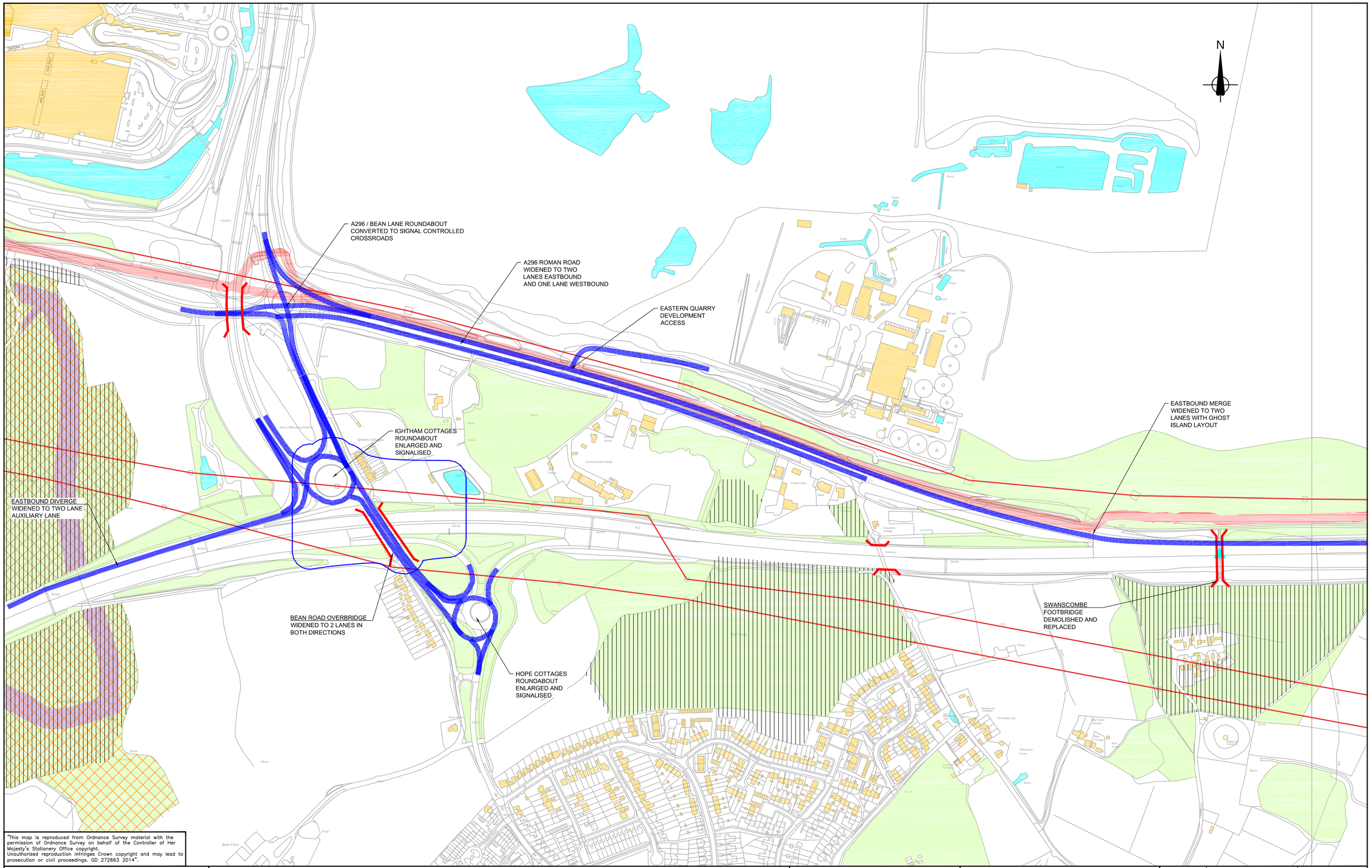
Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: ENGINEERING CONSTRAINT PLAN SHEET 4 OF 4

Status	S3	Revision	P1
Scale	1:2500	Date -	11-08-2016
Drawn By	RAVITEJA M S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1
Drawing number	HGN-XXXX-DR-D-0054		

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0051-0054.dwg - 8/11/2016 5:18:15 PM - 0054 - sri00423



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KEY

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- OVERHEAD POWER LINES
- SSSI
- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN OPTION 1 CONCEPT GENERAL LAYOUT

Status	S3	Revision	P1
Scale	1:2500	Date -	22-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917 / Originator HHJV	Original Size	A1

Drawing number: HGN-XXXX-DR-D-0147

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0147.dwg - 7/22/2016 3:50:34 PM - 0147 - RMI00457

A296 / BEAN LANE ROUNDABOUT
CONVERTED TO SIGNAL CONTROLLED
CROSSROADS

A296 ROMAN ROAD
WIDENED TO TWO
LANES EASTBOUND
AND ONE LANE WESTBOUND

EASTERN QUARRY
DEVELOPMENT
ACCESS

IGHTHAM COTTAGES
ROUNDABOUT
ENLARGED AND
RELOCATED

EASTBOUND DIVERGE
WIDENED TO TWO LANE
AUXILIARY LANE

BEAN ROAD OB
EITHER DEMOLISHED
OR RETAINED FOR
NON MOTORISED USERS

NEW DUAL CARRIAGEWAY
LINK ROAD AND BRIDGE
CROSSING OF A2

WESTBOUND SLIP
ROAD REALIGNED

HOPE COTTAGES
ROUNDABOUT
ENLARGED AND
RELOCATED

EASTBOUND MERGE
WIDENED TO TWO
LANES WITH GHOST
ISLAND LAYOUT

SWANSCOMBE
FOOTBRIDGE
DEMOLISHED AND
REPLACED

N

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KEY

- ANCIENT WOODLAND
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- LISTED BUILDINGS
- SCHEDULED ANCIENT MONUMENT
- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK HATCH OVERHEAD POWER LINES
- SSSI
- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN OPTION 2 CONCEPT GENERAL LAYOUT

Status	S3
Revision	P1
Scale	1:2500
Date -	22-07-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. (HA PIN / Originator)	543917 / HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0148

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0148.dwg - 7/22/2016 3:53:09 PM - 0148 - RMI00457

A296 / BEAN LANE ROUNDABOUT
CONVERTED TO SIGNAL CONTROLLED
CROSSROADS

A296 ROMAN ROAD
WIDENED TO TWO
LANES EASTBOUND
AND ONE LANE WESTBOUND

EASTERN QUARRY
DEVELOPMENT
ACCESS

EASTBOUND MERGE
WIDENED TO TWO
LANES WITH GHOST
ISLAND LAYOUT

SWANSCOMBE
FOOTBRIDGE
DEMOLISHED AND
REPLACED

TWO BRIDGE ROUNDABOUT
WITH REALIGNED SLIP ROADS

BEAN LANE (SOUTH) REALIGNED

N

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KEY

- ANCIENT WOODLAND
- AQMA BOUNDARY
- WATERBODIES
- WOODLAND
- BUILDINGS
- COUNTRY PARK
- RAILWAY LINE
- KENT WILDLIFE SITE AT BEACONS WOOD COUNTY PARK AND AT EBBSFLEET
- LISTED BUILDINGS
- SCHEDULED ANCIENT MONUMENT
- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK HATCH OVERHEAD POWER LINES
- SSSI
- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN OPTION 3 CONCEPT GENERAL LAYOUT

Status	S3	Revision	P1
Scale	1:2500	Date -	22-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA 543917	PIN / Originator	HHJV
Original Size	A1		

Drawing number: HGN-XXXX-DR-D-0149

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

KEY

- ANCIENT WOODLAND
- AQMA BOUNDARY
- WATERBODIES
- WOODLAND
- BUILDINGS
- COUNTRY PARK
- RAILWAY LINE
- KENT WILDLIFE SITE AT BEACONS WOOD COUNTY PARK AND AT EBBSFLEET
- LISTED BUILDINGS
- SCHEDULED ANCIENT MONUMENT
- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK HATCH
- OVERHEAD POWER LINES
- SSSI
- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Client

highways england

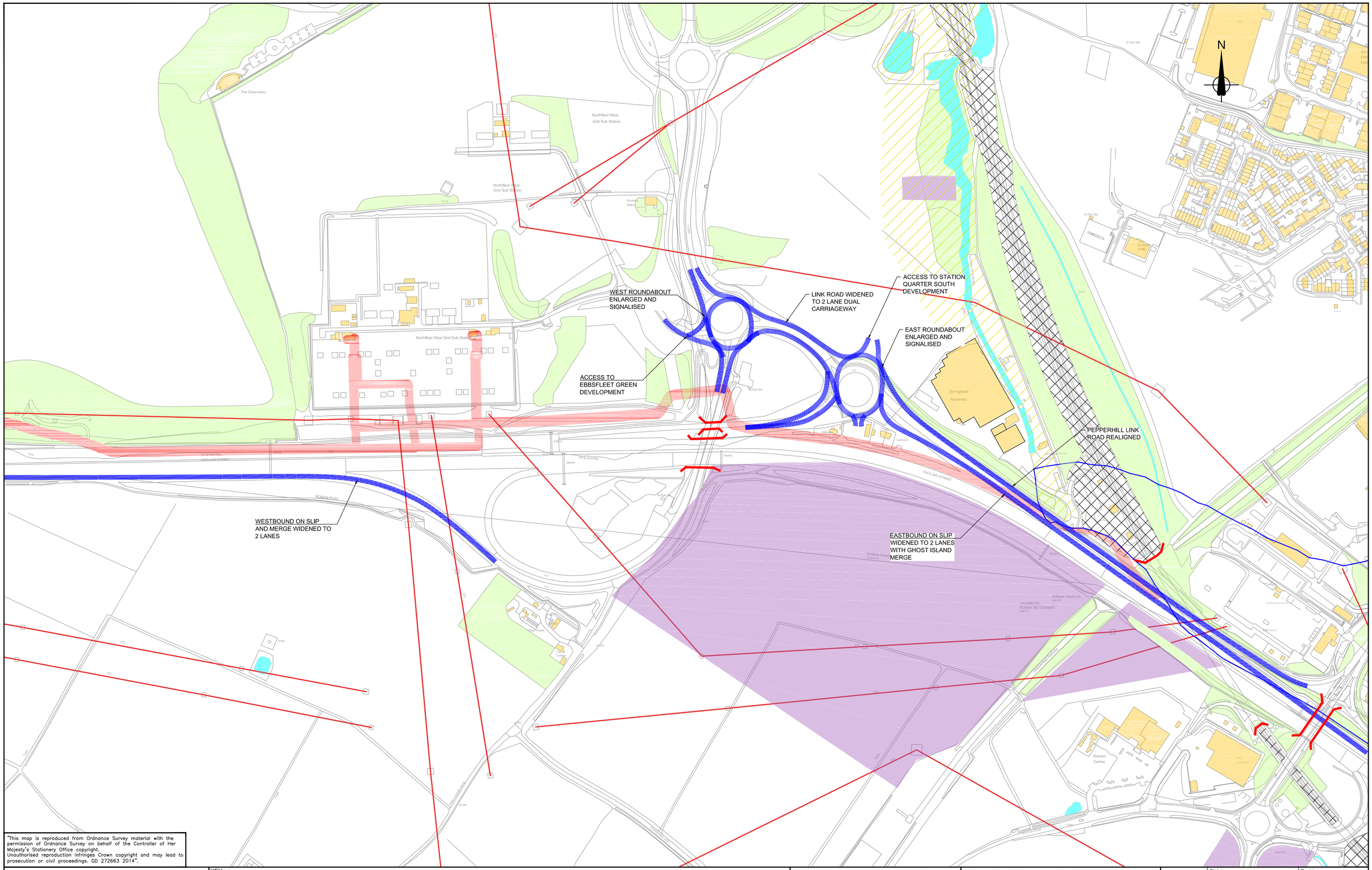
Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Halcrow Hyder

Project
A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title
BEAN OPTION 4
CONCEPT GENERAL LAYOUT

Status	S3
Revision	P1
Scale	1:2500
Date -	22-07-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917 / Originator HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0150



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

KEY

- ANCIENT WOODLAND
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- WATERBODIES
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- LISTED BUILDINGS
- SCHEDULED ANCIENT MONUMENT
- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK HATCH
- OVERHEAD POWER LINES
- SSSI
- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EBBSFLEET OPTION 1 CONCEPT GENERAL LAYOUT

Status	S3
Revision	P1
Scale	1:2500
Date -	22-07-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917 / Originator HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0151

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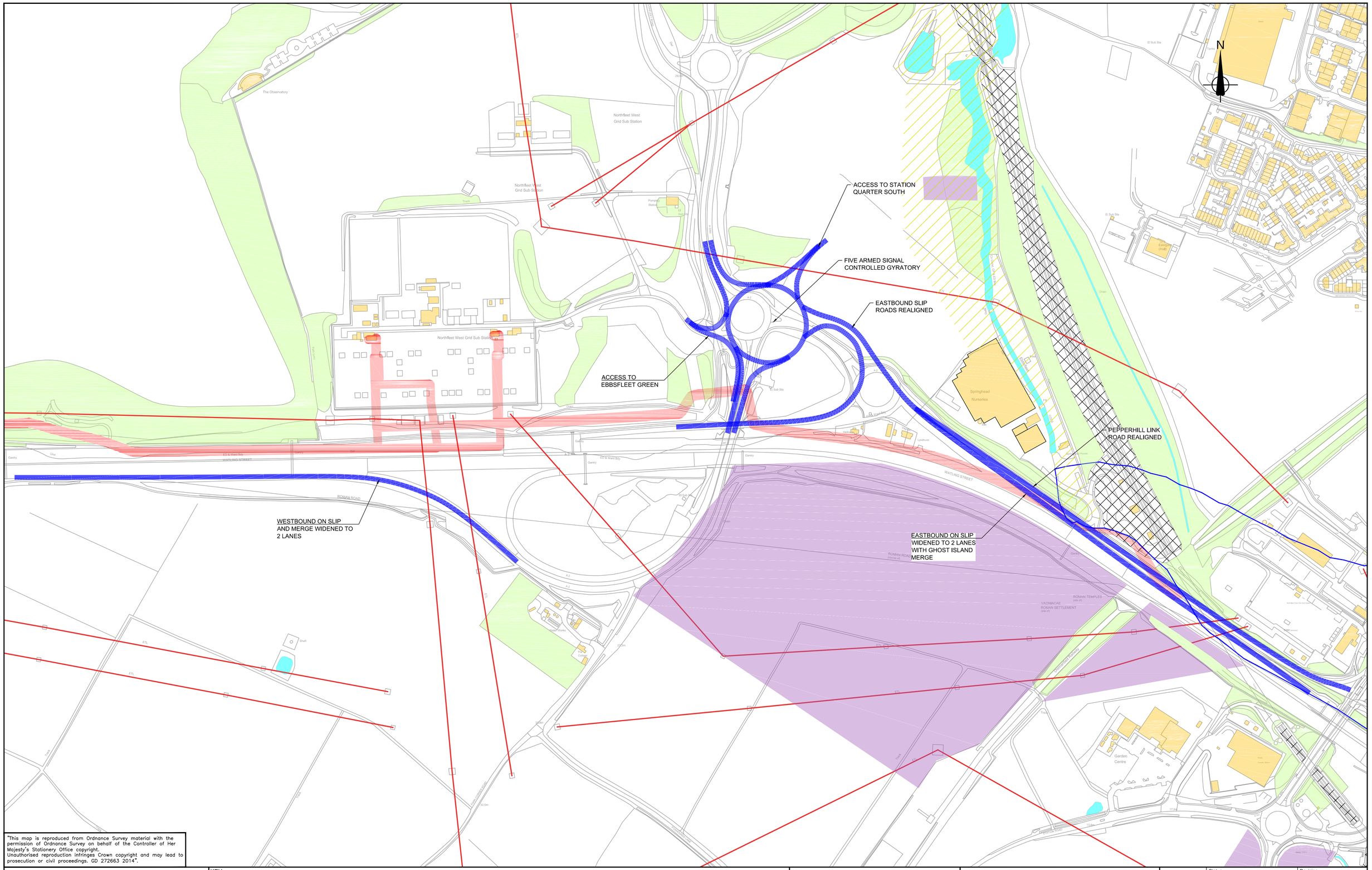

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

KEY

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- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EBBSFLEET OPTION 2 CONCEPT GENERAL LAYOUT

Status	S3
Revision	P1
Scale	1:2500
Date -	22-07-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917 / Originator HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0152

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FIVE ARMED SIGNAL
CONTROLLED GYRATORY

ACCESS TO STATION
QUARTER SOUTH

ACCESS TO
EBBSFLEET GREEN

A2260 REALIGNED

THREE ARMED
ROUNDABOUT

EASTBOUND SLIP
ROADS REALIGNED

PEPPERHILL LINK
ROAD REALIGNED

WESTBOUND ON SLIP
AND MERGE WIDENED TO
2 LANES

EASTBOUND ON SLIP
WIDENED TO 2 LANES
WITH GHOST ISLAND
MERGE

N

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KEY

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- OVERHEAD POWER LINES
- SSSI
- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
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Halcrow Hyder

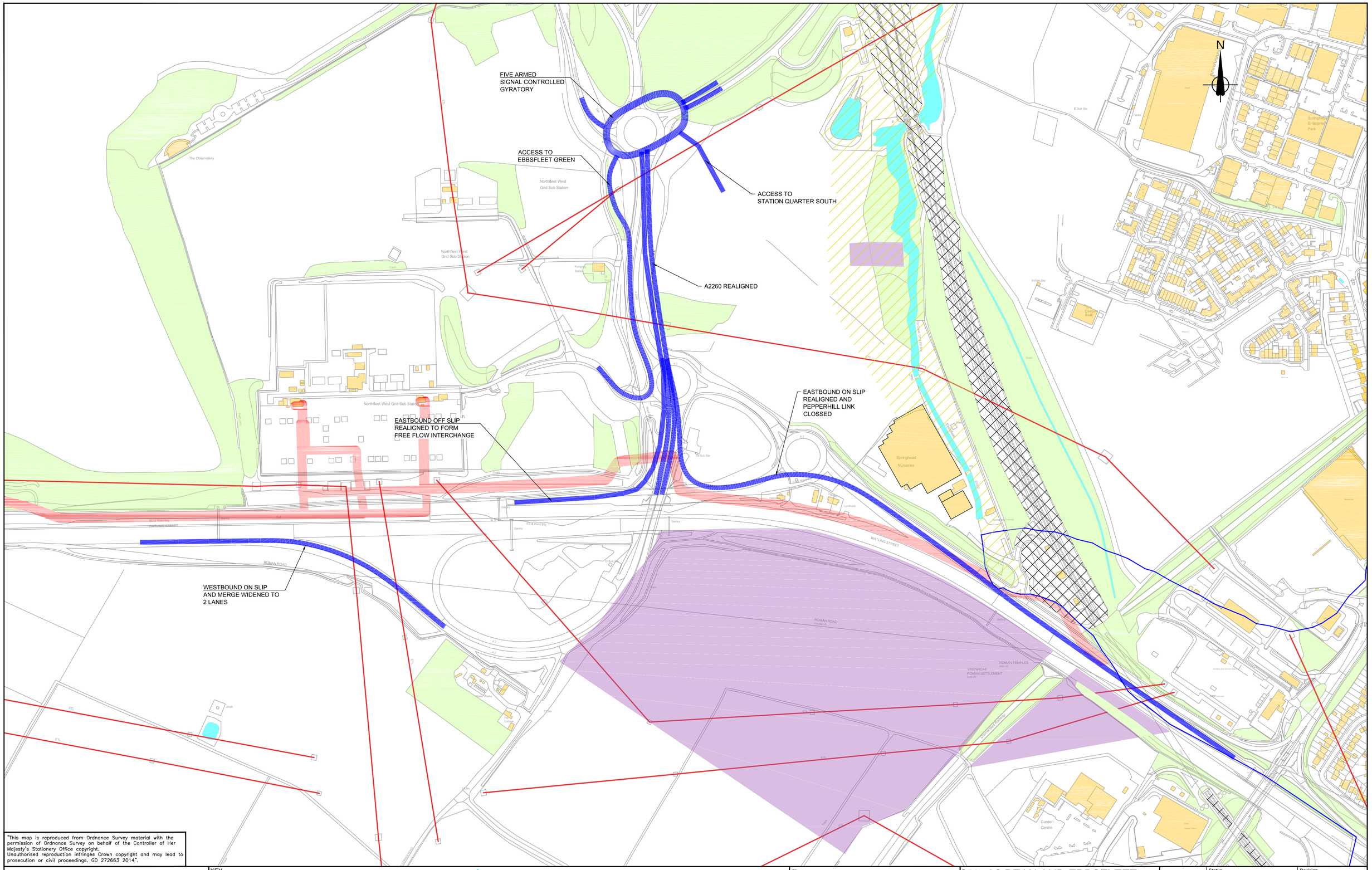
Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EBBSFLEET OPTION 3 CONCEPT GENERAL LAYOUT

Status	S3
Revision	P1
Scale	1:2500
Date -	22-07-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0153

N:\Highways\UKRUB0018\83-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0153.dwg - 7/22/2016 4:04:32 PM - 0153 - RM00457



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	22-07-2016	FOR REVIEW & COMMENTS	RMS	ML	ME
P1.1	S0	17-06-2016	FIRST DRAFT	RMS	ML	ME

KEY

- ANCIENT WOODLAND
- AQMA BOUNDARY
- WATERBODIES
- WOODLAND
- BUILDINGS
- COUNTRY PARK
- RAILWAY LINE
- KENT WILDLIFE SITE AT BEACONS WOOD COUNTY PARK AND AT EBBSFLEET
- LISTED BUILDINGS
- SCHEDULED ANCIENT MONUMENT
- NATIONAL GRID UNDERGROUND TRANSMISSION NETWORK HATCH
- OVERHEAD POWER LINES
- SSSI
- STRUCTURES

0 50 100 150 200 250m

1 : 2500

Client

highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Halcrow Hyder

Project

A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title

EBBSFLEET OPTION 4
CONCEPT GENERAL LAYOUT

Status	S3	Revision	P1
Scale	1:2500	Date -	22-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1
Drawing number	HGN-XXXX-DR-D-0154		

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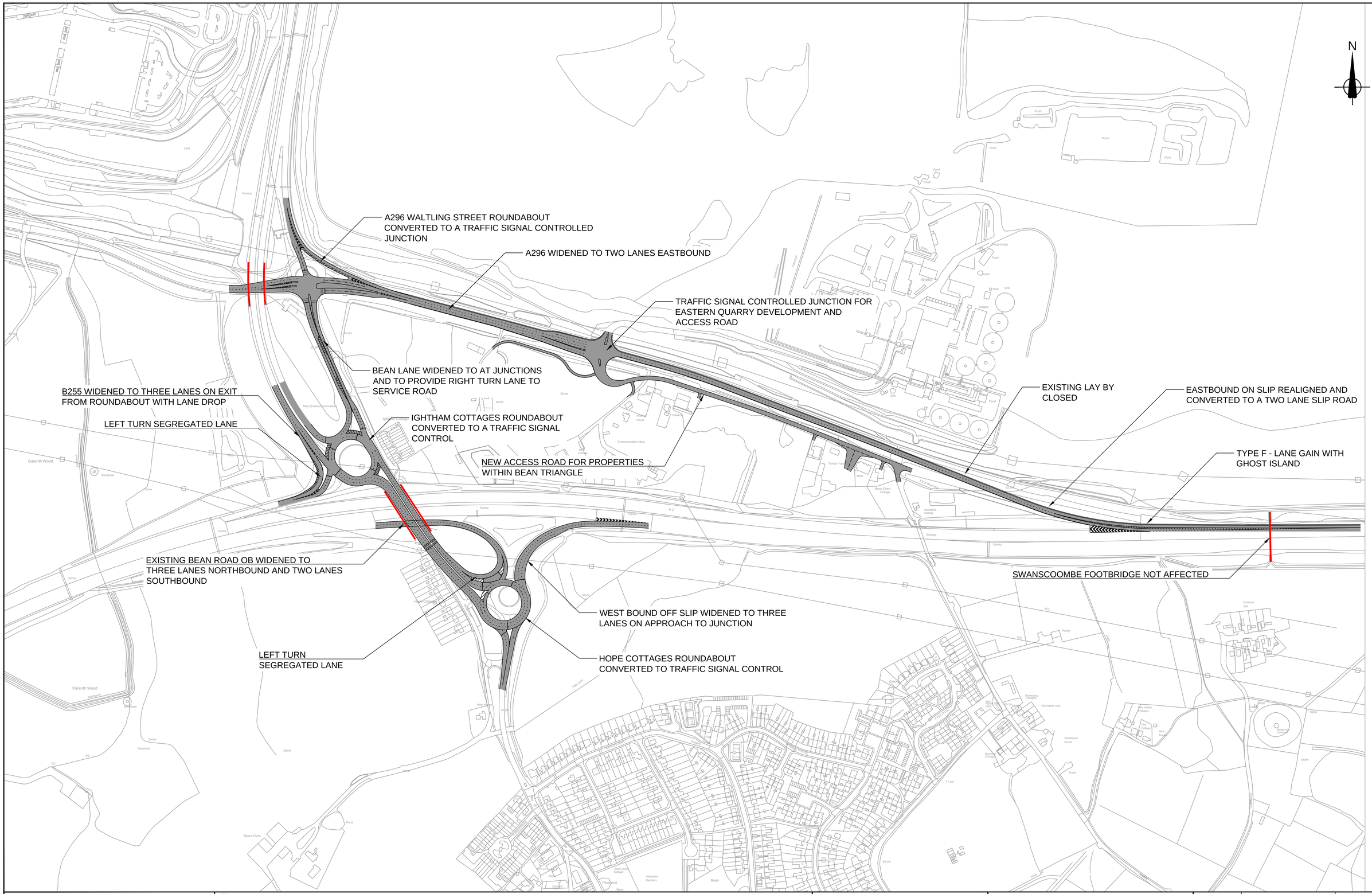

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.2	S0	30-06-2016	NOTES AND SHADING ADDED	RMS	ML	ME
01	S0	11-01-2016	FOR INFORMATION	RMS	ML	ME

KEY

Client: highways england

Halcrow Hyder Joint Venture
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Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN JUNCTION OPTION 1c LAYOUT SHEET 1 OF 1

Status	S3
Revision	P1
Scale	1:2500
Date -	28-07-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0009

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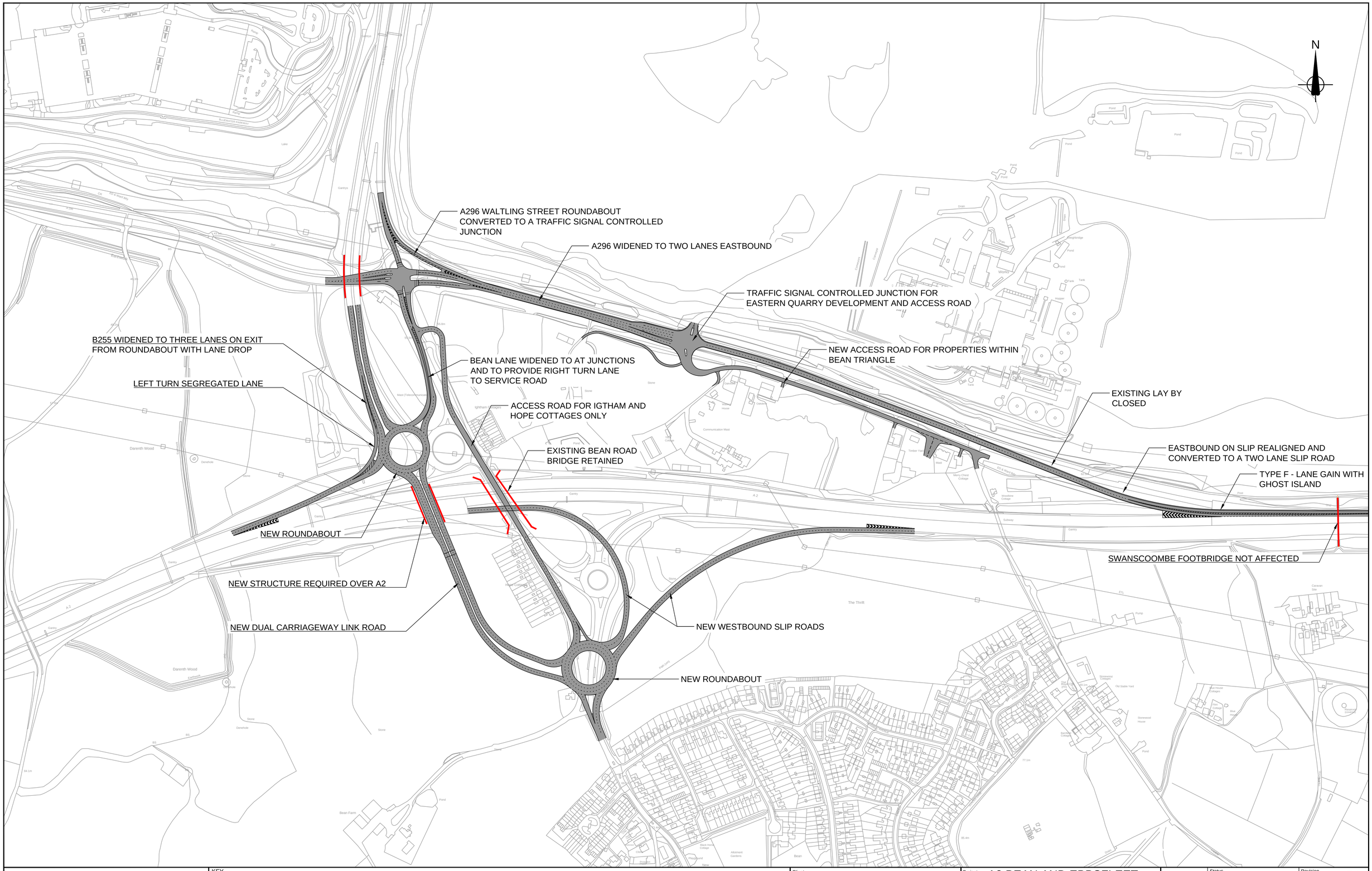

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.2	S0	30-06-2016	NOTES AND SHADING ADDED	RMS	ML	ME
01	S0	11-01-2016	FOR INFORMATION	RMS	ML	ME

KEY

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
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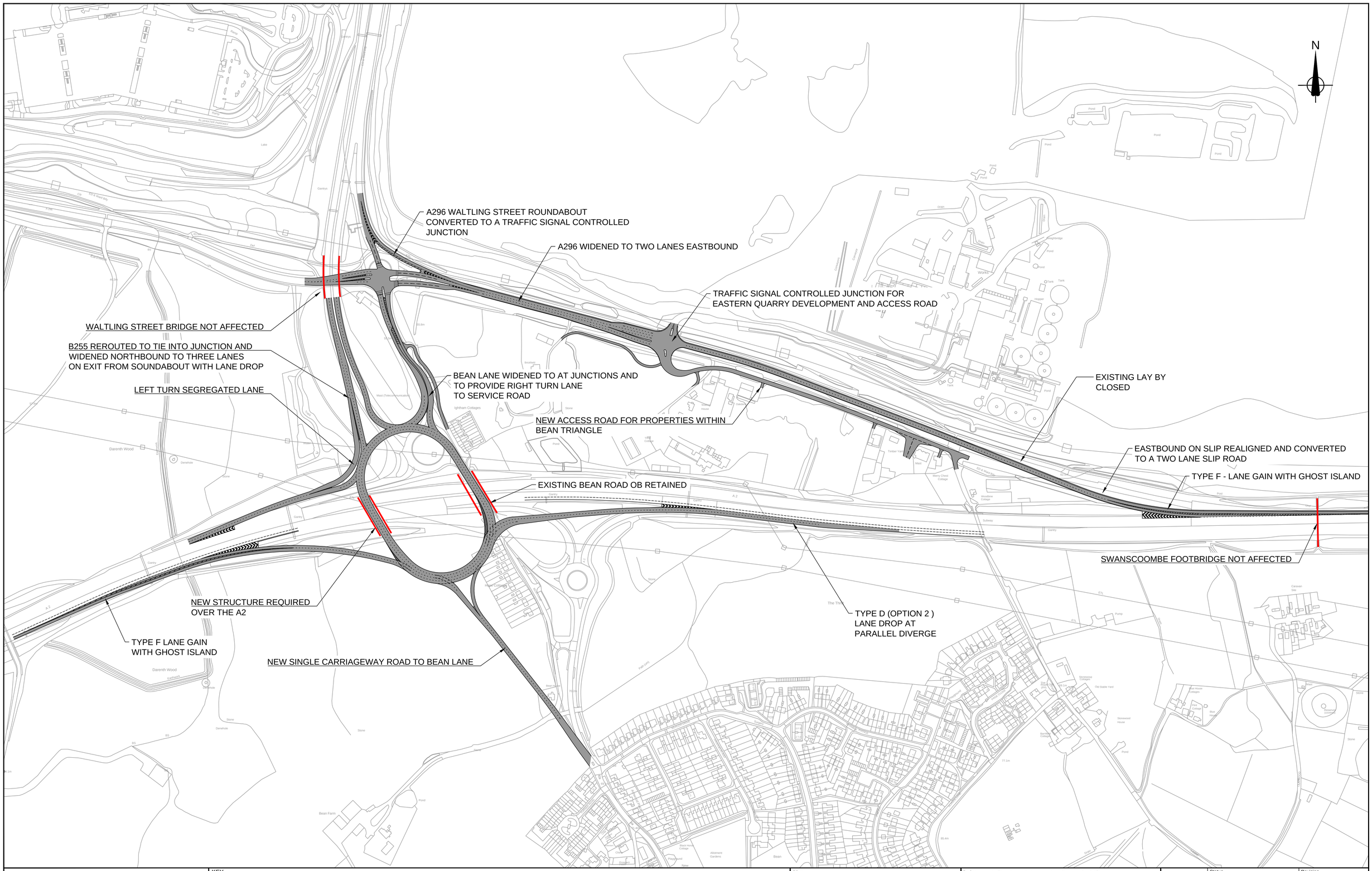
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN JUNCTION OPTION 2a LAYOUT SHEET 1 OF 1

Status	S3
Revision	P1
Scale	1:2500
Date -	28-07-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0010



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.2	S0	30-06-2016	NOTES AND SHADING ADDED	RMS	ML	ME
01	S0	11-01-2016	FOR INFORMATION	RMS	ML	ME

KEY

Client: highways england

Halcrow Hyder Joint Venture
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Swindon, SN4 0QD
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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN JUNCTION OPTION 3 LAYOUT SHEET 1 OF 1

Status	S3	Revision	P1
Scale	1:2500	Date -	28-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA PIN	543917	Originator	HHJV
Original Size	A1		

Drawing number: HGN-XXXX-DR-D-0011

TYPE E DIVERGE - TWO LANE DROP WITH
TWO LANES PASSING THROUGH THE JUNCTION
TO HEDGE ROAD ROUNDABOUT

B255 NORTHBOUND CARRIAGEWAY
WIDENED TO FOUR LANES

A296 WALTLING STREET ROUNDABOUT
CONVERTED TO A TRAFFIC SIGNAL
CONTROLLED JUNCTION

A296 WIDENED TO TWO LANES EASTBOUND

WALTLING STREET BLUEWATER BRIDGE
(KCC No. 1264) TO BE WIDENED

TRAFFIC SIGNAL CONTROLLED JUNCTION
FOR EASTERN QUARRY DEVELOPMENT
AND ACCESS ROAD

TYPE G MERGE - TWO LANE GAIN

BEAN LANE WIDENED TO AT
JUNCTIONS AND TO PROVIDE
RIGHT TURN LANE TO SERVICE ROAD

EXISTING SLIP ROAD WIDENED TO TWO LANES
AND REALIGNED

NEW ROUNDABOUT

EXISTING LAY BY
CLOSED

ACCESS ROAD FOR IGTHAM
AND HOPE COTTAGES ONLY

TWO LANE SLIP ROAD

NEW ONE LANE SLIP ROAD

TYPE A DIVERGE

TYPE E MERGE

TYPE D DIVERGE - LANE DROP
AT GHOST ISLAND

EXISTING BEAN ROAD
BRIDGE RETAINED

SWANSCOOMBE FOOTBRIDGE NOT AFFECTED

NEW STRUCTURE REQUIRED OVER THE A2

TYPE D (OPTION 2)
LANE DROP AT
PARALLEL DIVERGE

NEW DUAL CARRIAGEWAY LINK ROAD

NEW WESTBOUND SLIP ROADS

NEW ROUNDABOUT

N

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.2	S0	30-06-2016	NOTES AND SHADING ADDED	RMS	ML	ME
01	S0	11-01-2016	FOR INFORMATION	RMS	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN JUNCTION OPTION 4a LAYOUT SHEET 1 OF 1

Status	S3	Revision	P1
Scale	1:2500	Date -	28-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA PIN 543917 Originator HHJV		Original Size	A1
Drawing number HGN-XXXX-DR-D-0012			

A296 WALTLING STREET ROUNDABOUT
CONVERTED TO A TRAFFIC SIGNAL CONTROLLED
JUNCTION

A296 WIDENED TO TWO LANES EASTBOUND

TRAFFIC SIGNAL CONTROLLED JUNCTION FOR
EASTERN QUARRY DEVELOPMENT AND ACCESS ROAD

BEAN LANE WIDENED TO AT
JUNCTIONS AND TO PROVIDE
RIGHT TURN LANE TO SERVICE ROAD

B255 WIDENED TO THREE LANES ON EXIT
FROM ROUNDABOUT WITH LANE DROP

NEW ROUNDABOUT

LEFT TURN SEGREGATED LANE

ACCESS ROAD FOR IGTHAM AND
HOPE COTTAGES ONLY

EXISTING LAY BY
CLOSED

EASTBOUND ON SLIP REALIGNED AND CONVERTED
TO A TWO LANE SLIP ROAD

TYPE F - LANE GAIN WITH GHOST ISLAND

EXISTING BEAN ROAD
BRIDGE DEMOLISHED

NEW STRUCTURE REQUIRED OVER THE A2

TYPE D (OPTION 2)
LANE DROP AT
PARALLEL DIVERGE

NEW DUAL CARRIAGEWAY LINK ROAD

NEW WESTBOUND SLIP ROADS

NEW ROUNDABOUT

N

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.2	S0	30-06-2016	NOTES AND SHADING ADDED	RMS	ML	ME
01	S0	11-01-2016	FOR INFORMATION	RMS	ML	ME

KEY

Client: highways england

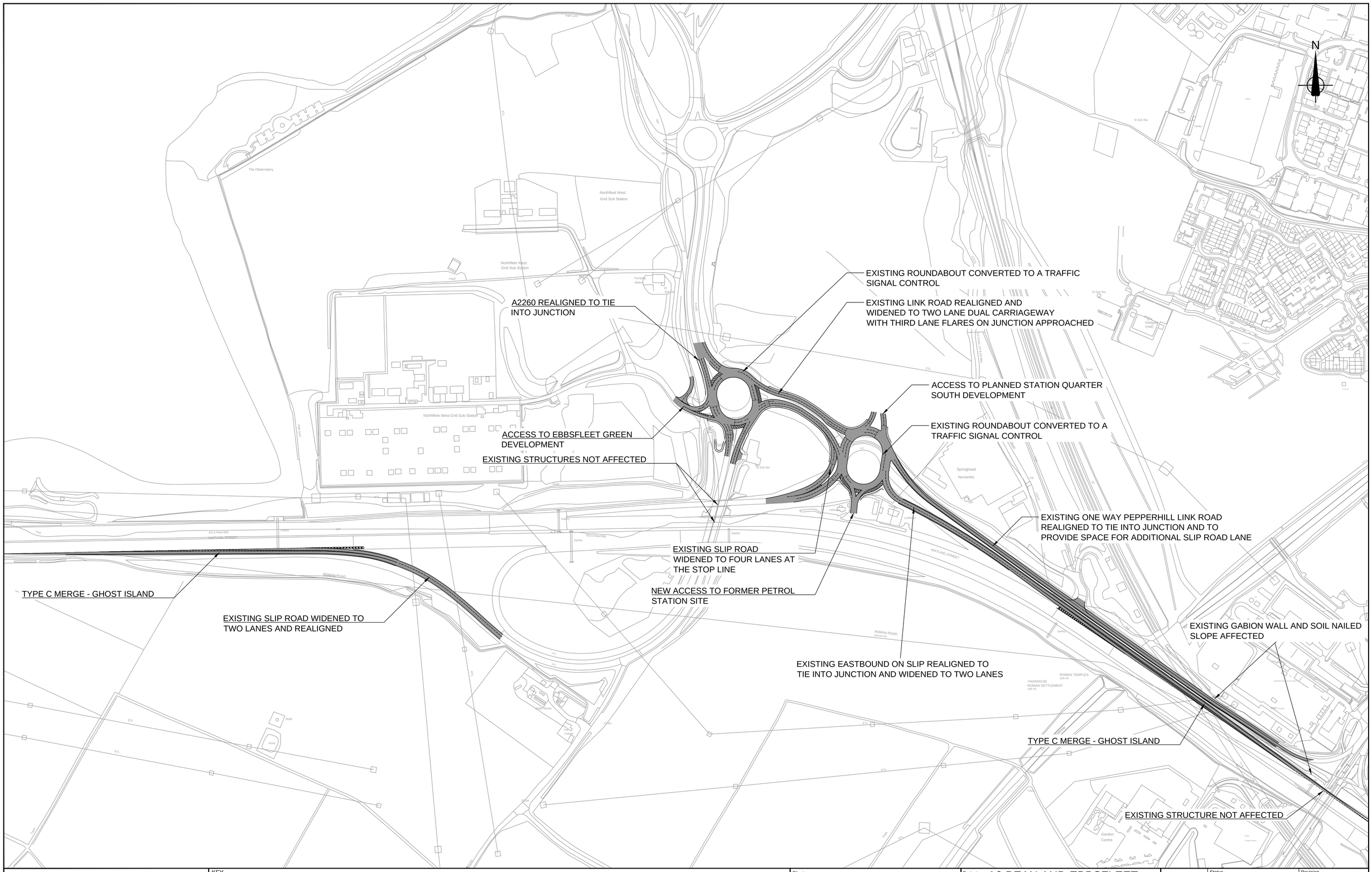
Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: BEAN JUNCTION OPTION 4b LAYOUT SHEET 1 OF 1

Status	S3	Revision	P1
Scale	1:2500	Date -	28-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1

Drawing number: HGN-XXXX-DR-D-0013



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.2	S0	30-06-2016	NOTES AND SHADING ADDED	RMS	ML	ME
01	S0	11-01-2016	FOR INFORMATION	RMS	ML	ME

KEY

Client: highways england

Halcrow Hyder Joint Venture
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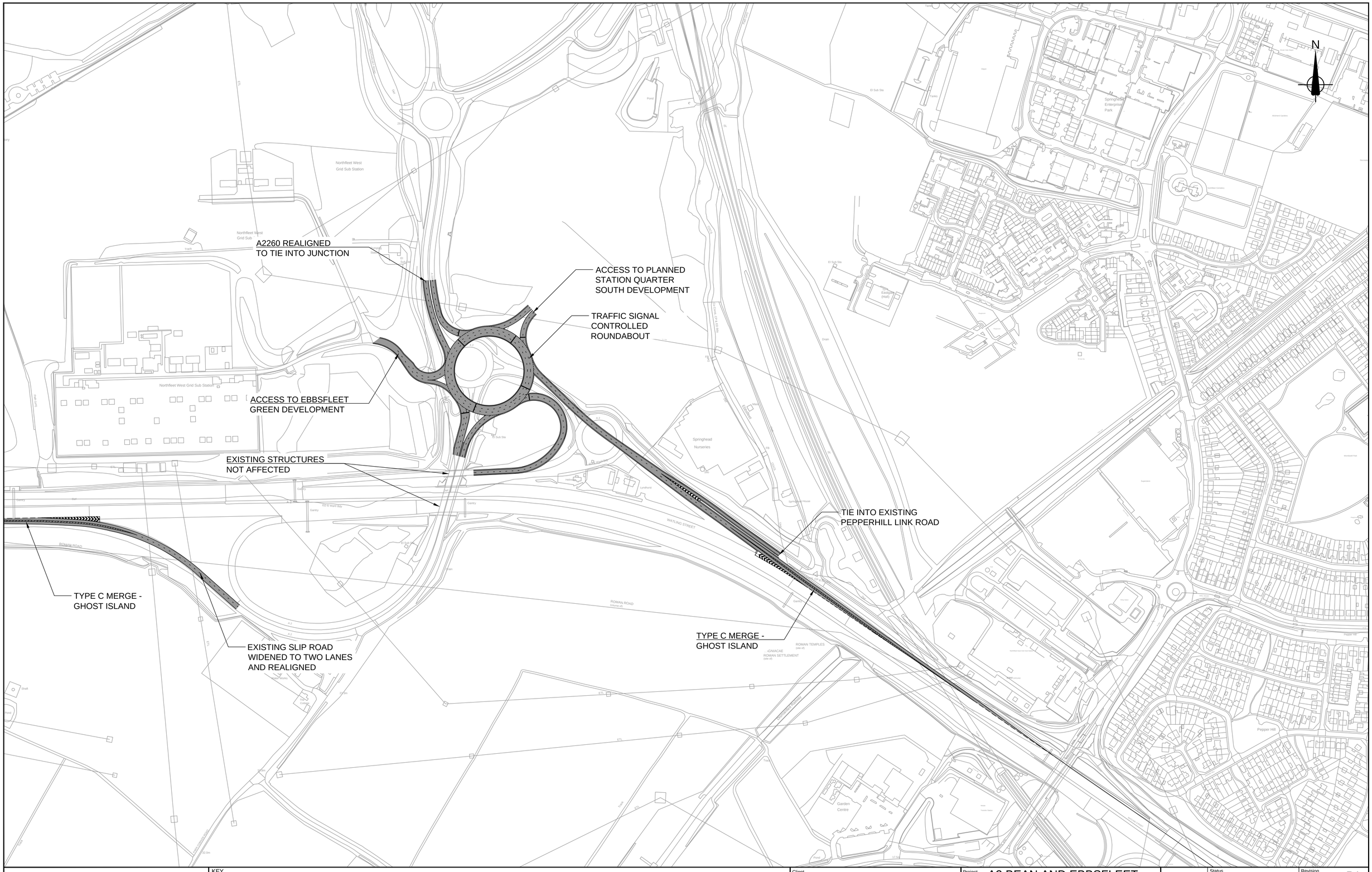
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EBBSFLEET JUNCTION OPTION 1b LAYOUT SHEET 1 OF 1

Status	S3	Revision	P1
Scale	1:2500	Date -	28-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1

Drawing number: HGN-XXXX-DR-D-0015



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR COMMENTS AND REVIEW	RMS	ML	ME
P1.2	S0	30-06-2016	NOTES AND SHADING ADDED	RMS	ML	ME
01	S0	11-01-2016	FOR INFORMATION	RMS	ML	ME

KEY

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: EBBSFLEET JUNCTION OPTION 2 LAYOUT
SHEET 1 OF 1

Status	S3	Revision	P1
Scale	1:2500	Date -	28-07-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA PIN 543917	Originator HHJV	Original Size A1

Drawing number: HGN-XXXX-DR-D-0016

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A296 / BEAN LANE ROUNDABOUT CONVERTED TO SIGNAL CONTROLLED JUNCTION.

A296 WIDENED TO TWO LANES EASTBOUND.

PROPOSED EASTERN QUARRY DEVELOPMENT ACCESS.

A296 CONVERTED TO TWO LANES EASTBOUND AND REALIGNED TO AVOID IMPACT ON SWANSCOMBE FOOTBRIDGE

NORTHBOUND B255 WIDENED ON EXIT FROM LGHTAM COTTAGES ROUNDABOUT WITH LANE DROP TO EXISTING TWO LANES.

BEAN LANE WIDENED TO PROVIDE TWO LANES ON APPROACH TO JUNCTION AND PROVISION OF RIGHT TURN FACILITY TO IGTHAM COTTAGES ACCESS.

TWO WAY ACCESS ROAD FOR BEAN TRIANGLE PROPERTIES

EXISTING BEAN ROAD OB RETAINED.

NEW BRIDGE CROSSING

DOWN FARM OB DEMOLISHED AND REPLACED WITH NEW BRIDGE CROSSING.

TWO D(OPTION 2) DIVERGE

TWO LANE ON SLIP WITH TYPE F (OPTION 1) MERGE LAYOUT.

PROPOSED TWO BRIDGE ROUNDABOUT WITH TRAFFIC SIGNAL CONTROLLED.

EXISTING HOPE COTTAGES ROUNDABOUT REMOVED.

BEAN LANE DIVERTED TO NEW JUNCTION

N

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0129

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0130

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY
EXISTING SIGN AND SIGNAL GANTRY RETAINED
NEW SIGN AND SIGNAL GANTRY
EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 3 AND EBBSFLEET OPTION 1 SHEET 1 OF 3

Status	S3	Revision	P4
Scale	1:2500	Date -	24-11-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA 543917 PIN HHJV Originator	Original Size	A1

Drawing number: HGN-XXXX-DR-D-0129

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MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0129

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0130

EXISTING TYPE E MERGE CONVERTED TO A TYPE F LANE GAIN.

SWANSCOMBE FOOTBRIDGE RETAINED.

EXISTING TYPE B MERGE CONVERTED TO TYPE C LAYOUT.

NORTHBOUND A2260 WIDENED TO THREE LANES ON EXIT FROM WEST ROUNDABOUT WITH LANE DROP TO TIE INTO EXISTING TWO LANES.

WEST ROUNDABOUT ENLARGED AND SIGNALISED

PROPOSED ACCESS TO EBSFLEET GREEN.

EASTBOUND OFF SLIP UNDERBRIDGE RETAINED.

EXISTING SLIP ROAD RETAINED.

PARK CORNER OB RETAINED.

SLIP ROAD REMARKED AS TWO LANES.

EXISTING TWO LANE DUAL CARRIAGEWAY CONNECTOR ROAD RETAINED.

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0130

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0131

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY

EXISTING SIGN AND SIGNAL GANTRY RETAINED

NEW SIGN AND SIGNAL GANTRY

EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
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Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 3 AND EBBSFLEET OPTION 1 SHEET 2 OF 3

Status	S3
Revision	P4
Scale	1:2500
Date -	24-11-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA 543917
PIN	
Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0130

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0129-0131.dwg - 11/24/2016 5:43:44 PM - 0130 - RMI00457

NORTHBOUND A2260 WIDENED TO THREE LANES ON EXIT FROM WEST ROUNDABOUT WITH LANE DROP TO TIE INTO EXISTING TWO LANES.

WEST ROUNDABOUT ENLARGED AND SIGNALISED

LINK ROAD WIDENED TO TWO LANE DUAL CARRIAGEWAY.

ACCESS TO PROPOSED STATION QUARTER SOUTH DEVELOPMENT.

EAST ROUNDABOUT ENLARGED AND SIGNALIZED.

PROPOSED ACCESS TO EBSFLEET GREEN.

EASTBOUND OFF SLIP UNDERBRIDGE RETAINED.

EASTBOUND ON SLIP REALIGNED AND WIDENED TO TWO LANES WITH TYPE C MERGE.

ACCESS TO FORMER PETROL STATION SITE.

PEPPERHILL LINK ROAD REALIGNED.

PARK CORNER OB RETAINED.

CHANNEL TUNNEL RAIL LINK TUNNEL.

EXISTING TWO LANE DUAL CARRIAGEWAY CONNECTOR ROAD RETAINED.

PEPPER HILL LINK ROAD GABION WALL

PEPPER HILL OB

PEPPER HILL SOIL NAIL WALL.

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0130

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0131

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY

EXISTING SIGN AND SIGNAL GANTRY RETAINED

NEW SIGN AND SIGNAL GANTRY

EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 3 AND EBBSFLEET OPTION 1 SHEET 3 OF 3

Status	S3
Revision	P4
Scale	1:2500
Date -	24-11-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1
Drawing number	HGN-XXXX-DR-D-0131

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0129-0131.dwg - 11/24/2016 5:43:52 PM - 0131 - RMI00457

EXISTING TWO LANE
GAIN LAYOUT FROM BLUEWATER
CONVERTED TO A TYPE C LAYOUT
WITH REDUCED GEOMETRIC DIMENSIONS

EXIT SLIP ROAD FROM
B255 TO A296 CLOSED

A296 WIDENED TO TWO
LANES EASTBOUND AS
PART OF ACCESS TO
EASTERN QUARRY

BEAN LANE NORTH
WIDENED TO TWO
LANES NORTHBOUND

IGHTHAM COTTAGES
ACCESS REALIGNED

IGHTHAM COTTAGES
ROUNDABOUT RELOCATED
AND ENLARGED

NEW SINGLE LANE EASTBOUND
ON SLIP WITH TYPE E MERGE

DEDICATED LEFT TURN LANE

EXISTING HARD SHOULDER
CONVERTED TO RUNNING LANE
WITH PROVISION OF FOUR
NARROW LANES

EXISTING TYPE C
LAYOUT RETAINED

BEAN ROAD OB
DEMOLISHED

EXISTING MERGE
RETAINED

TYPE D (OPTION 2)
LAYOUT

SANDY LANE
SUBWAY EXTENDED

NEW TWO LANE DUAL
CARRIAGEWAY LINK
ROAD WITH NMU FACILITY

HOPE COTTAGES
ACCESS

HOPE COTTAGES
ROUNDABOUT
RELOCATED

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0132

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0133

N

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY
EXISTING SIGN AND SIGNAL GANTRY RETAINED
NEW SIGN AND SIGNAL GANTRY
EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 4 AND EBBSFLEET OPTION 1 SHEET 1 OF 3

Status	S3	Revision	P4
Scale	1:2500	Date -	24-11-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA 543917	PIN HHJV	Originator	Original Size A1

Drawing number: HGN-XXXX-DR-D-0132

N:\Highways\UKRUB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0132-0134.dwg - 11/24/2016 5:38:16 PM - 0132 - RMI00457

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0132

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0133

EXISTING EASTBOUND ON SLIP

EXISTING TYPE E LAYOUT CONVERTED TO TYPE B MERGE LAYOUT

SANDY LANE SUBWAY EXTENDED

EXISTING TYPE B MERGE CONVERTED TO TYPE C LAYOUT.

NORTHBOUND A2260 WIDENED TO THREE LANES ON EXIT FROM WEST ROUNDABOUT WITH LANE DROP TO TIE INTO EXISTING TWO LANES.

WEST ROUNDABOUT ENLARGED AND SIGNALISED

PROPOSED ACCESS TO EBSFLEET GREEN.

EASTBOUND OFF SLIP UNDERBRIDGE RETAINED.

EXISTING SLIP ROAD RETAINED.

PARK CORNER OB RETAINED.

SLIP ROAD REMARKED AS TWO LANES.

EXISTING TWO LANE DUAL CARRIAGEWAY CONNECTOR ROAD RETAINED.

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0133

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0134

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY

EXISTING SIGN AND SIGNAL GANTRY RETAINED

NEW SIGN AND SIGNAL GANTRY

EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 4 AND EBBSFLEET OPTION 1 SHEET 2 OF 3

Status	S3	Revision	P4
Scale	1:2500	Date -	24-11-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No.	HA 543917	PIN / Originator HHJV	Original Size A1

Drawing number: HGN-XXXX-DR-D-0133

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0132-0134.dwg - 11/24/2016 5:38:26 PM - 0133 - RMI00457

NORTHBOUND A2260 WIDENED TO THREE LANES ON EXIT FROM WEST ROUNDABOUT WITH LANE DROP TO TIE INTO EXISTING TWO LANES.

WEST ROUNDABOUT ENLARGED AND SIGNALISED

LINK ROAD WIDENED TO TWO LANE DUAL CARRIAGEWAY.

ACCESS TO PROPOSED STATION QUARTER SOUTH DEVELOPMENT.

EAST ROUNDABOUT ENLARGED AND SIGNALIZED.

PROPOSED ACCESS TO EBSFLEET GREEN.

EASTBOUND OFF SLIP UNDERBRIDGE RETAINED.

EASTBOUND ON SLIP REALIGNED AND WIDENED TO TWO LANES WITH TYPE C MERGE.

ACCESS TO FORMER PETROL STATION SITE.

PEPPERHILL LINK ROAD REALIGNED.

PARK CORNER OB RETAINED.

CHANNEL TUNNEL RAIL LINK TUNNEL

EXISTING TWO LANE DUAL CARRIAGEWAY CONNECTOR ROAD RETAINED.

PEPPER HILL LINK ROAD GABION WALL

PEPPER HILL OB

PEPPER HILL SOIL NAIL WALL.

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0133

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0134

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY

EXISTING SIGN AND SIGNAL GANTRY RETAINED

NEW SIGN AND SIGNAL GANTRY

EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 4 AND EBBSFLEET OPTION 1 SHEET 3 OF 3

Status	S3
Revision	P4
Scale	1:2500
Date	24-11-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0134

N:\Highways\UKRUB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0132-0134.dwg - 11/24/2016 5:38:34 PM - 0134 - RMI00457

EXISTING TWO LANE
GAIN LAYOUT FROM BLUEWATER
CONVERTED TO A TYPE C LAYOUT
WITH REDUCED GEOMETRIC DIMENSIONS

EXIT SLIP ROAD FROM
B255 TO A296 CLOSED

A296 WIDENED TO TWO
LANES EASTBOUND AS
PART OF ACCESS TO
EASTERN QUARRY

BEAN LANE NORTH
WIDENED TO TWO
LANES NORTHBOUND

NORTHBOUND B255
WIDENED ON EXIT FROM
IGHTHAM COTTAGES
ROUNDABOUT WITH LANE
DROP TO EXISTING TWO LANES

IGHTHAM COTTAGES
ROUNDABOUT ENLARGED
AND SIGNALISED

DEDICATED LEFT TURN LANE
RETAINED

NEW SINGLE LANE EASTBOUND
ON SLIP WITH TYPE E MERGE

EXISTING HARD SHOULDER
CONVERTED TO RUNNING LANE
WITH PROVISION OF FOUR
NARROW LANES

EXISTING TYPE C
DIVERGE CONVERTED
TO A TYPE D (OPTION 1)

EXISTING BEAN ROAD
OB TO BE RETAINED FOR
NORTHBOUND TRAFFIC

NEW BRIDGE CONSTRUCTED
PARALLEL TO EXISTING BEAN
ROAD OB FOR SOUTHBOUND
TRAFFIC

EXISTING TYPE F
MERGE RETAINED

EXISTING TYPE D
(OPTION 2) LAYOUT
RETAINED

SANDY LANE
SUBWAY

HOPE COTTAGES
ROUNDABOUT
ENLARGED AND
SIGNALISED

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0135

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0136

N

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY
EXISTING SIGN AND SIGNAL GANTRY RETAINED
NEW SIGN AND SIGNAL GANTRY
EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 5 AND EBBSFLEET OPTION 1 SHEET 1 OF 3

Status	S3
Revision	P4
Scale	1:2500
Date -	24-11-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917
Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0135

N:\Highways\UKRU\B001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0135-0137.dwg - 11/24/2016 5:38:04 PM - 0135 - RMI00457

N:\Highways\UKR\UB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0135-0137.dwg - 11/24/2016 5:38:16 PM - 0136 - RMI00457

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0135

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0136

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0136

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0137

N

EXISTING EASTBOUND ON SLIP

EXISTING TYPE E LAYOUT CONVERTED TO TYPE B MERGE LAYOUT

EXISTING TYPE B MERGE CONVERTED TO TYPE C LAYOUT.

SANDY LANE SUBWAY

NORTHBOUND A2260 WIDENED TO THREE LANES ON EXIT FROM WEST ROUNDABOUT WITH LANE DROP TO TIE INTO EXISTING TWO LANES.

WEST ROUNDABOUT ENLARGED AND SIGNALISED

PROPOSED ACCESS TO EBSFLEET GREEN.

EASTBOUND OFF SLIP UNDERBRIDGE RETAINED.

EXISTING SLIP ROAD RETAINED.

PARK CORNER OB RETAINED.

SLIP ROAD REMARKED AS TWO LANES.

EXISTING TWO LANE DUAL CARRIAGEWAY CONNECTOR ROAD RETAINED.

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY
EXISTING SIGN AND SIGNAL GANTRY RETAINED
NEW SIGN AND SIGNAL GANTRY
EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479
Halcrow Hyder

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 5 AND EBBSFLEET OPTION 1 SHEET 2 OF 3

Status	S3
Revision	P4
Scale	1:2500
Date -	24-11-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA 543917
PIN / Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0136

NORTHBOUND A2260 WIDENED TO THREE LANES ON EXIT FROM WEST ROUNDABOUT WITH LANE DROP TO TIE INTO EXISTING TWO LANES.

WEST ROUNDABOUT ENLARGED AND SIGNALISED

LINK ROAD WIDENED TO TWO LANE DUAL CARRIAGEWAY.

ACCESS TO PROPOSED STATION QUARTER SOUTH DEVELOPMENT.

EAST ROUNDABOUT ENLARGED AND SIGNALIZED.

PROPOSED ACCESS TO EBSFLEET GREEN.

EASTBOUND OFF SLIP UNDERBRIDGE RETAINED.

EASTBOUND ON SLIP REALIGNED AND WIDENED TO TWO LANES WITH TYPE C MERGE.

ACCESS TO FORMER PETROL STATION SITE.

PEPPERHILL LINK ROAD REALIGNED.

PARK CORNER OB RETAINED.

CHANNEL TUNNEL RAIL LINK TUNNEL

PEPPER HILL LINK ROAD GABION WALL

PEPPER HILL OB

PEPPER HILL SOIL NAIL WALL.

EXISTING TWO LANE DUAL CARRIAGEWAY CONNECTOR ROAD RETAINED.

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0136

MATCHLINE WITH DRG. No. HA543917-HHJV-HGN-XXXX-DR-D-0137

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P4	S3	24-11-2016	MINOR AMENDMENTS	RMS	ML	ME
P1	S3	22-08-2016	FOR COMMENT AND REVIEW	RMS	ML	ME
P2.1	S0	27-06-2016	INTERIM DESIGN FIX C	RMS	ML	ME
P1	S2	14-06-2016	FOR INFORMATION	RMS	ML	ME
P1.1	S0	24-05-2016	FIRST DRAFT	RMS	ML	ME

SCHEME BOUNDARY

EXISTING SIGN AND SIGNAL GANTRY RETAINED

NEW SIGN AND SIGNAL GANTRY

EXISTING SIGN AND SIGNAL GANTRY REMOVED

0 50 100 150 200 250m

1 : 2500

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

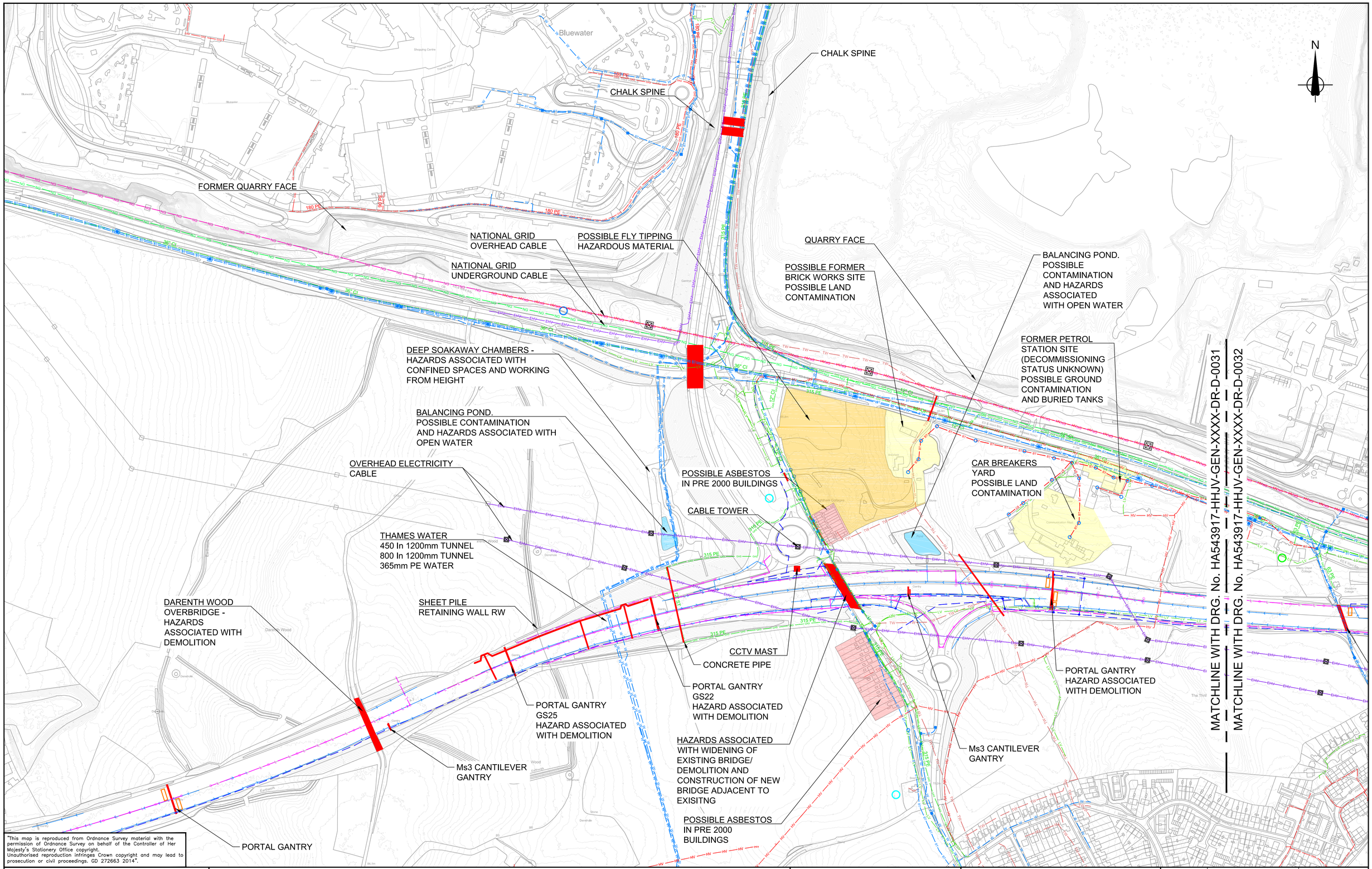
Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: GENERAL LAYOUT BEAN OPTION 5 AND EBBSFLEET OPTION 1 SHEET 3 OF 3

Status	S3
Revision	P4
Scale	1:2500
Date -	24-11-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1

Drawing number: HGN-XXXX-DR-D-0137

N:\Highways\UKRUB001883-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-HGN-XXXX-DR-D-0135-0137.dwg - 11/24/2016 5:38:25 PM - 0137 - RMI00457



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.3	S0	08-07-2016	MINOR AMENDMENTS	RMS	ML	ME
P1.1	S0	24-02-2016	FIRST DRAFT	RMS	ML	ME

KEY

- SOUTHERN GAS - LHP MAIN
- SOUTHERN GAS - MP MAIN
- BT OPENREACH - UNDERGOUND CABLE
- BT OPENREACH - OVERHEAD CABLE
- BT OPENREACH - POLE
- SOUTHERN WATER - FOUL WATER
- THAMES WATER - FOUL WATER
- THAMES WATER - SURFACE WATER
- THAMES WATER - WATER MAINS
- THAMES WATER PUMPING STATION / WATER WORKS
- NATIONAL GRID - UNDERGROUND CABLE
- NATIONAL GRID - OVERHEAD CABLE
- UK POWER NETWORKS - EHV
- UK POWER NETWORKS - HV
- UK POWER NETWORKS - LV
- VODAFONE - (Ex Energies)
- VODAFONE - (Other licensed Operator)
- VODAFONE - MAST
- O2 - MAST
- H3G/EE - MAST
- VIRGIN MEDIA
- AREA 4 - LIGHTING CABLE
- AREA 4 - LIGHTING COLUMN
- AREA 4 - SURFACE WATER DRAINAGE
- GENESYS - DUCT OR CABLE ROUTE
- GENESYS - CABINET
- GENESYS - LOOPS
- GENESYS - GANTRY
- GENESYS - EMERGENCY TELEPHONE
- STRUCTURE (SEE DRAWING HA543917-HHJV-SGN-XXXX-DR-Z-1700-1702 FOR DETAILS)

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HAZARD PLAN SHEET 1 OF 4

Status	S3
Revision	P1
Scale	1:2500
Date -	24-02-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No.	HA PIN 543917
Originator	HHJV
Original Size	A1
Drawing number	GEN-XXXX-DR-D-0031

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0031

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0032

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0032

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0033

QUARRY FACE

NORTHFLEET WEST GRID SUB STATION (DISCUSSED AND DEMOLISHED)

PORTAL GANTRY

SWANSCOMBE FOOTBRIDGE HAZARDS ASSOCIATED WITH DEMOLITION

PORTAL GANTRY

PORTAL GANTRY

SANDY LANE SUBWAY

A2 WEST BOUND ON-SLIP RETAINING WALL

PORTAL GANTRY

A2 WEST BOUND ON-SLIP RETAINING WALL

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.3	S0	08-07-2016	MINOR AMENDMENTS	RMS	ML	ME
P1.1	S0	24-02-2016	FIRST DRAFT	RMS	ML	ME

KEY

- SOUTHERN GAS - LHP MAIN
- SOUTHERN GAS - MP MAIN
- BT OPENREACH - UNDERGOUND CABLE
- BT OPENREACH - OVERHEAD CABLE
- BT OPENREACH - POLE
- SOUTHERN WATER - FOUL WATER
- THAMES WATER - FOUL WATER
- THAMES WATER - SURFACE WATER
- THAMES WATER - WATER MAINS
- THAMES WATER PUMPING STATION / WATER WORKS
- NATIONAL GRID - UNDERGROUND CABLE
- NATIONAL GRID - OVERHEAD CABLE
- UK POWER NETWORKS - EHV
- UK POWER NETWORKS - HV
- UK POWER NETWORKS - LV
- VODAFONE - (Ex Energies)
- VODAFONE - (Other licensed Operator)
- VODAFONE - MAST
- O2 - MAST
- H3G/EE - MAST
- VIRGIN MEDIA
- AREA 4 - LIGHTING CABLE
- AREA 4 - LIGHTING COLUMN
- AREA 4 - SURFACE WATER DRAINAGE
- GENESYS - DUCT OR CABLE ROUTE
- GENESYS - CABINET
- GENESYS - LOOPS
- GENESYS - GANTRY
- GENESYS - EMERGENCY TELEPHONE
- STRUCTURE (SEE DRAWING HA543917-HHJV-SGN-XXXX-DR-Z-1700-1702 FOR DETAILS)

Client: highways england

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HAZARD PLAN SHEET 2 OF 4

Status	S3
Revision	P1
Scale	1:2500
Date -	24-02-2016
Drawn By	RAVITEJA M.S
Checked By	M.LUDLAM
Approved By	M.EMERY
Project No. HA PIN	543917
Originator	HHJV
Original Size	A1

Drawing number: GEN-XXXX-DR-D-0032

N:\Highways\UKRUB0018833-01-A2 Bean and Ebbsfleet\E-Drawings\E01-IFP\Working Drawings\HA543917-HHJV-GEN-XXXX-DR-D-0031-0034.dwg - 7/29/2016 10:48:07 AM - 0032 - RMI00457

BALANCING POND.
POSSIBLE CONTAMINATION
AND HAZARDS ASSOCIATED WITH
OPEN WATER

RIVER EBBSFLEET
HAZARDS
ASSOCIATED WITH
OPEN WATER

FORMER PETROL
STATION SITE
(DECOMMISSIONING
STATUS UNKNOWN)
POSSIBLE GROUND
CONTAMINATION
AND BURIED TANKS

PARK CORNER
UNDER BRIDGE
RETAINING WALL

PARK CORNER
UNDERBRIDGE

PORTAL GANTRY

POSSIBLE
ASBESTOS
IN PRE 2000
BUILDINGS

DRAINAGE
POLLUTION
CHAMBERS

PEPPERHILL LINK
GABION WALL &
OVERHEAD PYLONS

PEPPERHILL LINK
SOIL NAIL WALL

CEGB SERVICES
TUNNELS

PORTAL GANTRY

A2 WEST BOUND
ON-SLIP
RETAINING WALL

PARK CORNER
UNDER BRIDGE
WIDENING SOUTH

PORTAL GANTRY

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0032

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0033

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0033

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0034

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KEY

- SOUTHERN GAS - LHP MAIN
- SOUTHERN GAS - MP MAIN
- BT OPENREACH - UNDERGOUND CABLE
- BT OPENREACH - OVERHEAD CABLE
- BT OPENREACH - POLE
- SOUTHERN WATER - FOUL WATER
- THAMES WATER - FOUL WATER
- THAMES WATER - SURFACE WATER
- THAMES WATER - WATER MAINS
- THAMES WATER PUMPING STATION / WATER WORKS
- NATIONAL GRID - UNDERGROUND CABLE
- NATIONAL GRID - OVERHEAD CABLE
- UK POWER NETWORKS - EHV
- UK POWER NETWORKS - HV
- UK POWER NETWORKS - LV
- VODAFONE - (Ex Energies)
- VODAFONE - (Other licensed Operator)
- VODAFONE - MAST
- O2 - MAST
- H3G/EE - MAST
- VIRGIN MEDIA
- AREA 4 - LIGHTING CABLE
- AREA 4 - LIGHTING COLUMN
- AREA 4 - SURFACE WATER DRAINAGE
- GENESYS - DUCT OR CABLE ROUTE
- GENESYS - CABINET
- GENESYS - LOOPS
- GENESYS - GANTRY
- GENESYS - EMERGENCY TELEPHONE
- STRUCTURE (SEE DRAWING HA543917-HHJV-SGN-XXXX-DR-Z-1700-1702 FOR DETAILS)

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P1	S3	28-07-2016	FOR REVIEW AND COMMENTS	RMS	ML	ME
P1.3	S0	08-07-2016	MINOR AMENDMENTS	RMS	ML	ME
P1.1	S0	24-02-2016	FIRST DRAFT	RMS	ML	ME

Client: highways england

Halcrow Hyder Joint Venture
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Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HAZARD PLAN SHEET 3 OF 4

Status	S3	Revision	P1
Scale	1:2500	Date -	24-02-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA 543917	PIN HHJV	Originator	Original Size A1

Drawing number: GEN-XXXX-DR-D-0033

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MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0033

MATCHLINE WITH DRG. No. HA543917-HHJV-GEN-XXXX-DR-D-0034

PEPPERHILL OVERBRIDGE

CTRL

N

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KEY

- SOUTHERN GAS - LHP MAIN
- SOUTHERN GAS - MP MAIN
- BT OPENREACH - UNDERGOUND CABLE
- BT OPENREACH - OVERHEAD CABLE
- BT OPENREACH - POLE
- SOUTHERN WATER - FOUL WATER
- THAMES WATER - FOUL WATER
- THAMES WATER - SURFACE WATER
- THAMES WATER - WATER MAINS
- THAMES WATER PUMPING STATION / WATER WORKS
- NATIONAL GRID - UNDERGROUND CABLE
- NATIONAL GRID - OVERHEAD CABLE
- UK POWER NETWORKS - EHV
- UK POWER NETWORKS - HV
- UK POWER NETWORKS - LV
- VODAFONE - (Ex Energies)
- VODAFONE - (Other licensed Operator)
- VODAFONE - MAST
- O2 - MAST
- H3G/EE - MAST
- VIRGIN MEDIA
- AREA 4 - LIGHTING CABLE
- AREA 4 - LIGHTING COLUMN
- AREA 4 - SURFACE WATER DRAINAGE
- GENESYS - DUCT OR CABLE ROUTE
- GENESYS - CABINET
- GENESYS - LOOPS
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- STRUCTURE (SEE DRAWING HA543917-HHJV-SGN-XXXX-DR-Z-1700-1702 FOR DETAILS)

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
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Project: A2 BEAN AND EBBSFLEET JUNCTION IMPROVEMENTS

Drawing title: HAZARD PLAN SHEET 4 OF 4

Status	S3	Revision	P1
Scale	1:2500	Date -	24-02-2016
Drawn By	RAVITEJA M.S		
Checked By	M.LUDLAM		
Approved By	M.EMERY		
Project No. HA PIN	543917	Originator	HHJV
Original Size	A1		

Drawing number: GEN-XXXX-DR-D-0034

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