



# Development Consent Order

Application Reference Number: WW010001

## Documents for Certification September 2014

We, Lindsay Speed and Sarah Fairbrother hereby certify that this is a true copy of the environmental statement referred to in Article 61 (1) (f) of the Thames Water Utilities Limited (Thames Tideway Tunnel) Order 2014.

*Lindsay Speed*

*Sarah Fairbrother*

September 2014

**Thames  
Tideway Tunnel**



Creating a cleaner, healthier River Thames

Thames Tideway Tunnel  
Thames Water Utilities Limited



## Application for Development Consent

Application Reference Number: WWO10001

# Environmental Statement

Doc Ref: **6.2.27**

## Volume 27: Minor Works Sites figures

APFP Regulations 2009: Regulation **5(2)(a)**

Hard copy available in  
Box **68** Folder **C**  
January 2013

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Tideway Tunnel   
Creating a cleaner, healthier River Thames

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## Thames Tideway Tunnel

### Environmental Statement

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## Thames Tideway Tunnel

### Environmental Statement

#### Volume 27 Minor work sites site assessment

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# Thames Tideway Tunnel

## Environmental Statement

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## 1 Plans from the Book of Plans

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Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Ventilation column(s)	6.0m
Electrical and control kiosk(s)	2.5m



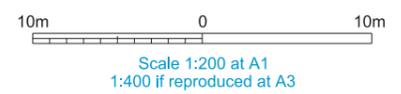
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Zone within which all permanent site structures would be located
  - Zone within which permanent above ground structures would be located (those listed in Table 1)

- Notes:**
1. All dimensions and levels are approximate.
  2. The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.



**FOR APPROVAL**

**Location**  
 Bekesbourne Street  
 London Borough of Tower Hamlets

**Document Information**  
 Application for Development Consent  
 Site works parameter plan

Book of plans - section 26  
 DCO-PP-25X-BEKST-260004  
 January 2013





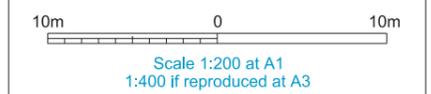
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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Trees to be removed

- Notes:**
1. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
  2. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.



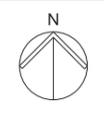
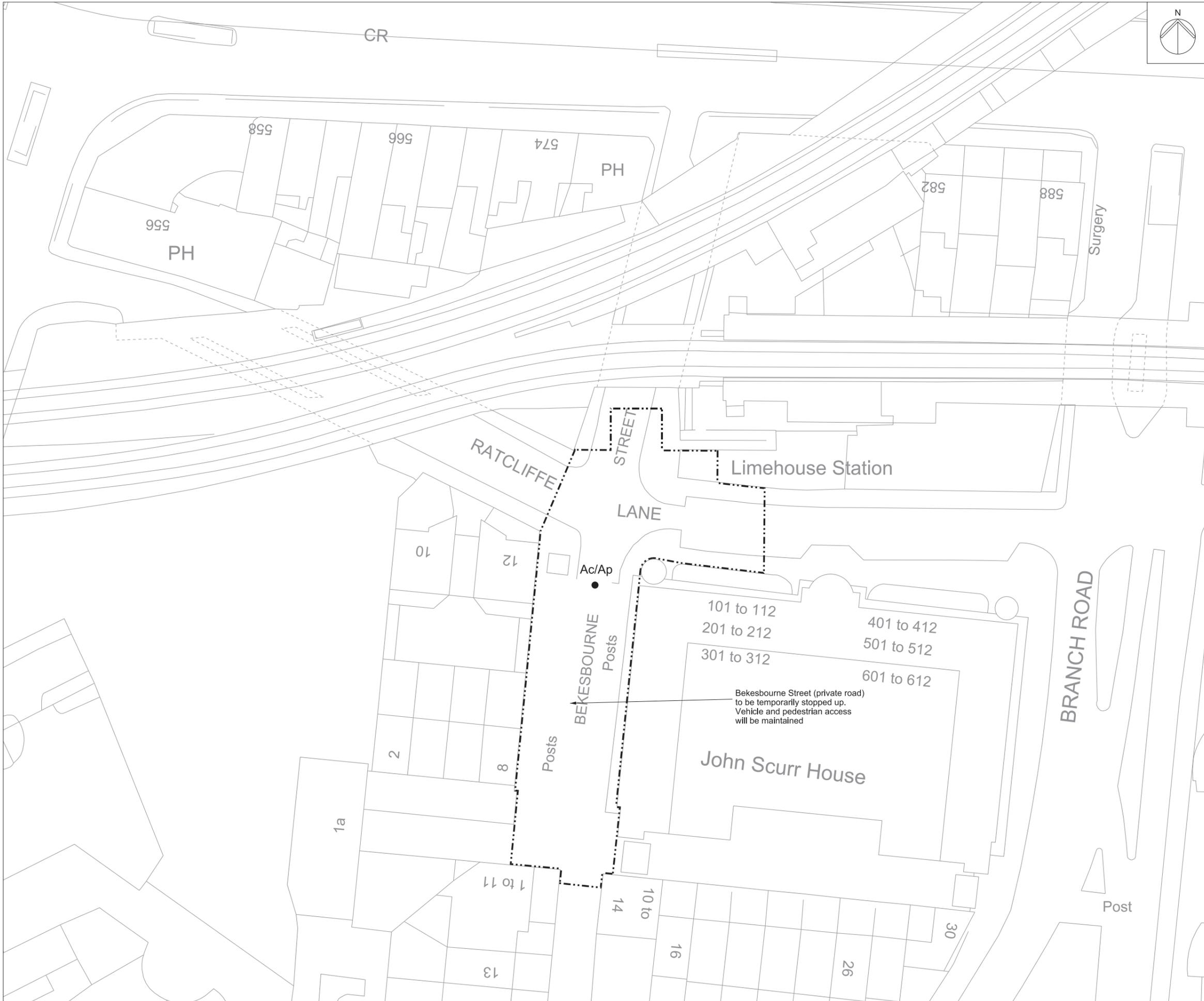
**FOR APPROVAL**

**Location**  
Bokesbourne Street  
London Borough of Tower Hamlets

**Document Information**  
**Application for Development Consent**  
Demolition and site clearance

Book of plans - section 26  
DCO-PP-25X-BEKST-260003  
January 2013





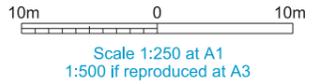
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Ap ● Access to permanent works
  - Ac ● Access to construction works

- Notes:**
1. This plan does not show stopping up and diversions of limited duration (eg hoarding erection, minor utility diversions and minor highway works).
  2. Only rights of way in or close to worksites are shown. The full extents of rights of way are not shown where they cease to be relevant to the project.



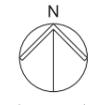
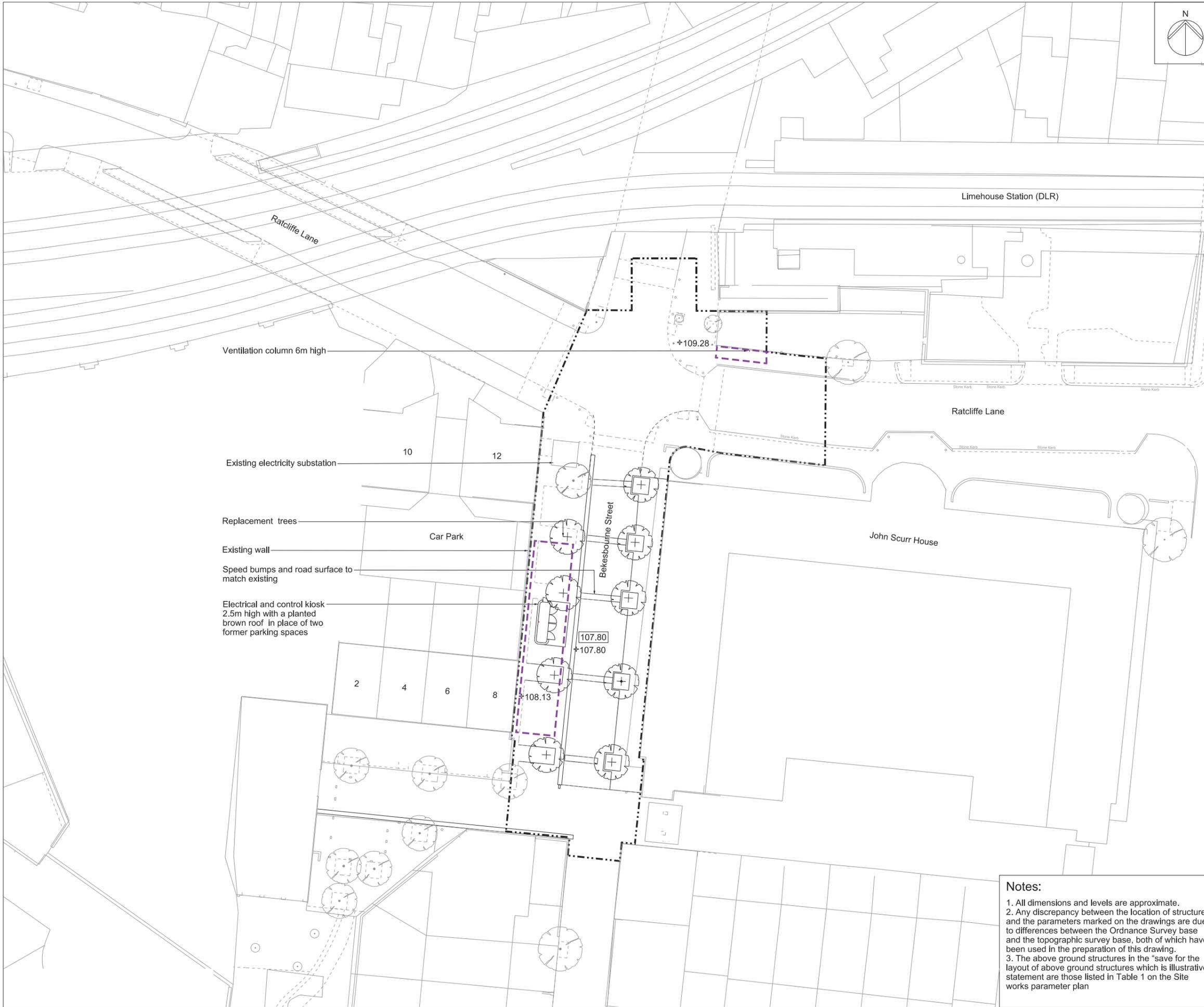
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**Location**  
**Bekesbourne Street**  
 London Borough of Tower Hamlets

**Document Information**  
**Application for Development Consent**  
 Access plan

Book of plans - section 26  
 DCO-PP-25X-BEKST-260002  
 January 2013



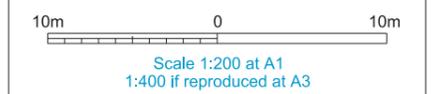


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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Zone within which permanent above ground structures would be located
  - + 105.40m Existing levels (shown in metres above tunnel datum)
  - 105.40 Proposed levels (shown in metres above tunnel datum)
  - Existing trees within surveyed area (trunk sizes vary)
  - Proposed trees



**ILLUSTRATIVE**  
Save for the scale of above ground structures which is indicative

**Location**  
Bokesbourne Street  
London Borough of Tower Hamlets

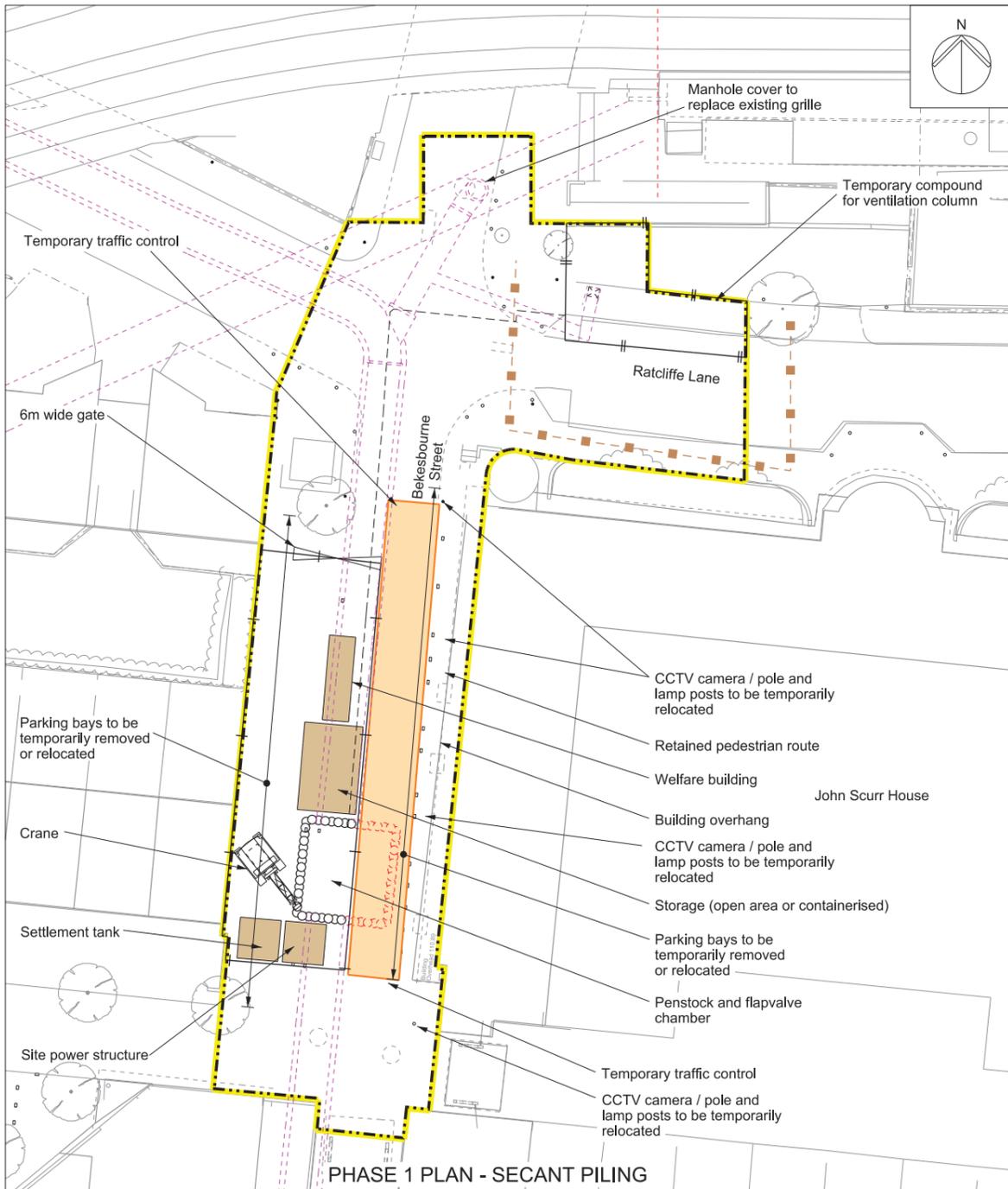
**Document Information**  
Application for Development Consent

Proposed  
Landscape plan  
Book of plans - section 26  
DCO-PP-25X-BEKST-260006  
January 2013

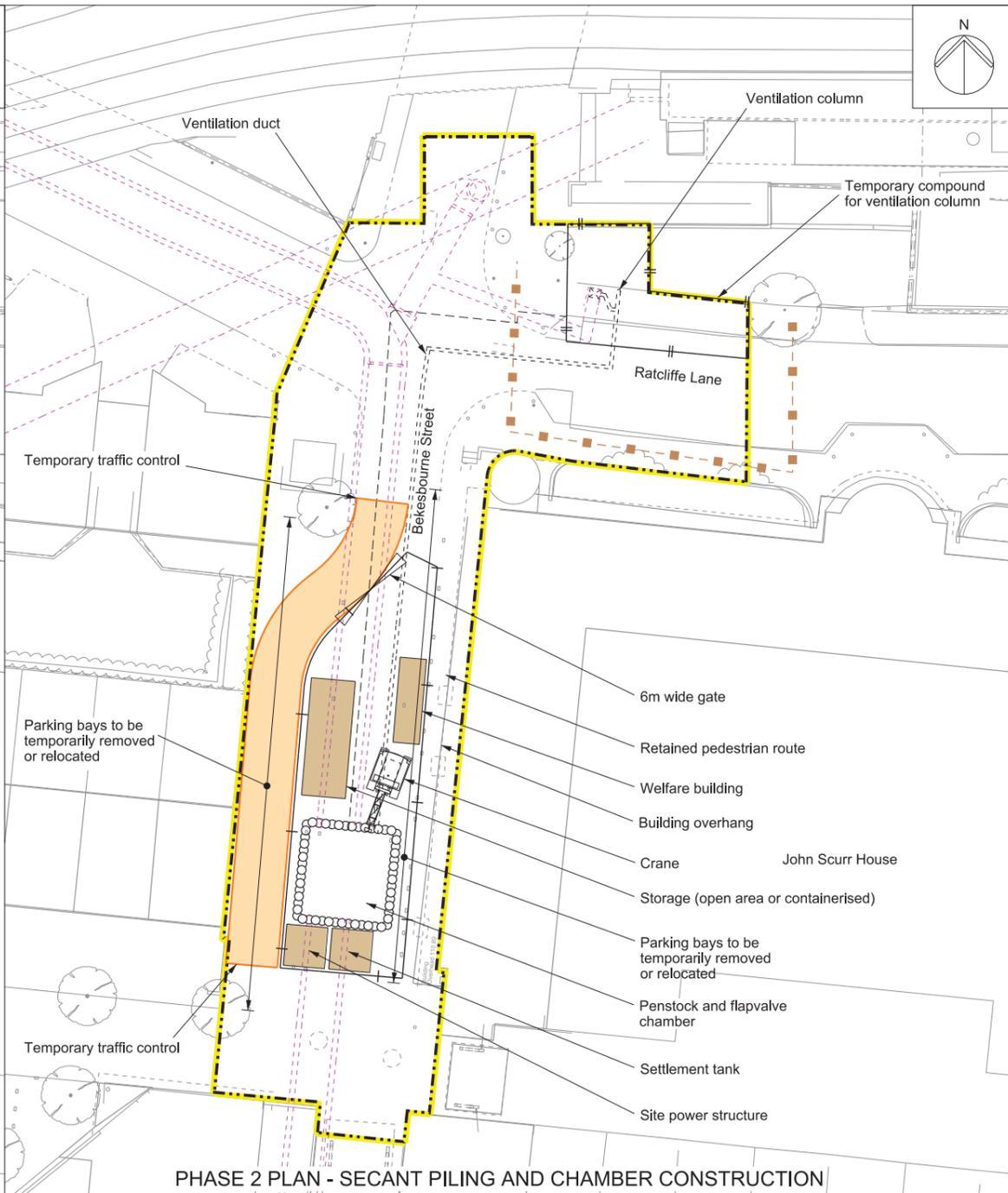


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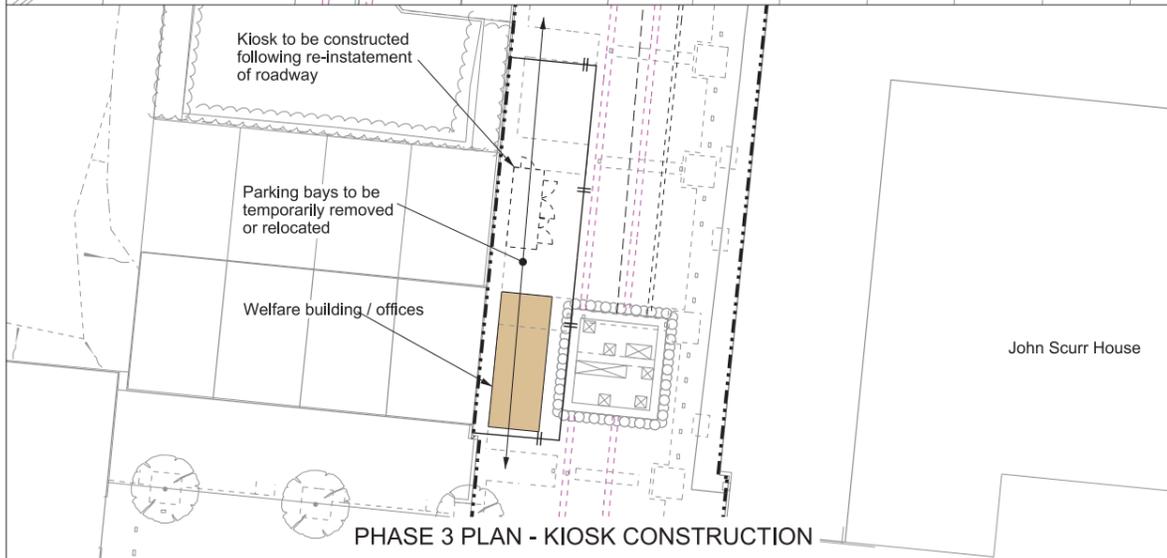
1. All dimensions and levels are approximate.
2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.
3. The above ground structures in the "save for the layout of above ground structures which is illustrative" statement are those listed in Table 1 on the Site works parameter plan



PHASE 1 PLAN - SECANT PILING



PHASE 2 PLAN - SECANT PILING AND CHAMBER CONSTRUCTION



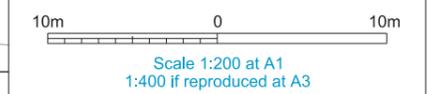
PHASE 3 PLAN - KIOSK CONSTRUCTION

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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Hoarding
  - Open mesh fence
  - Maximum extent of working area
  - Route of temporary diversion of footway
  - Site access
  - Access / haul route
  - Existing sewers



- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
  2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
  3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
  4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.

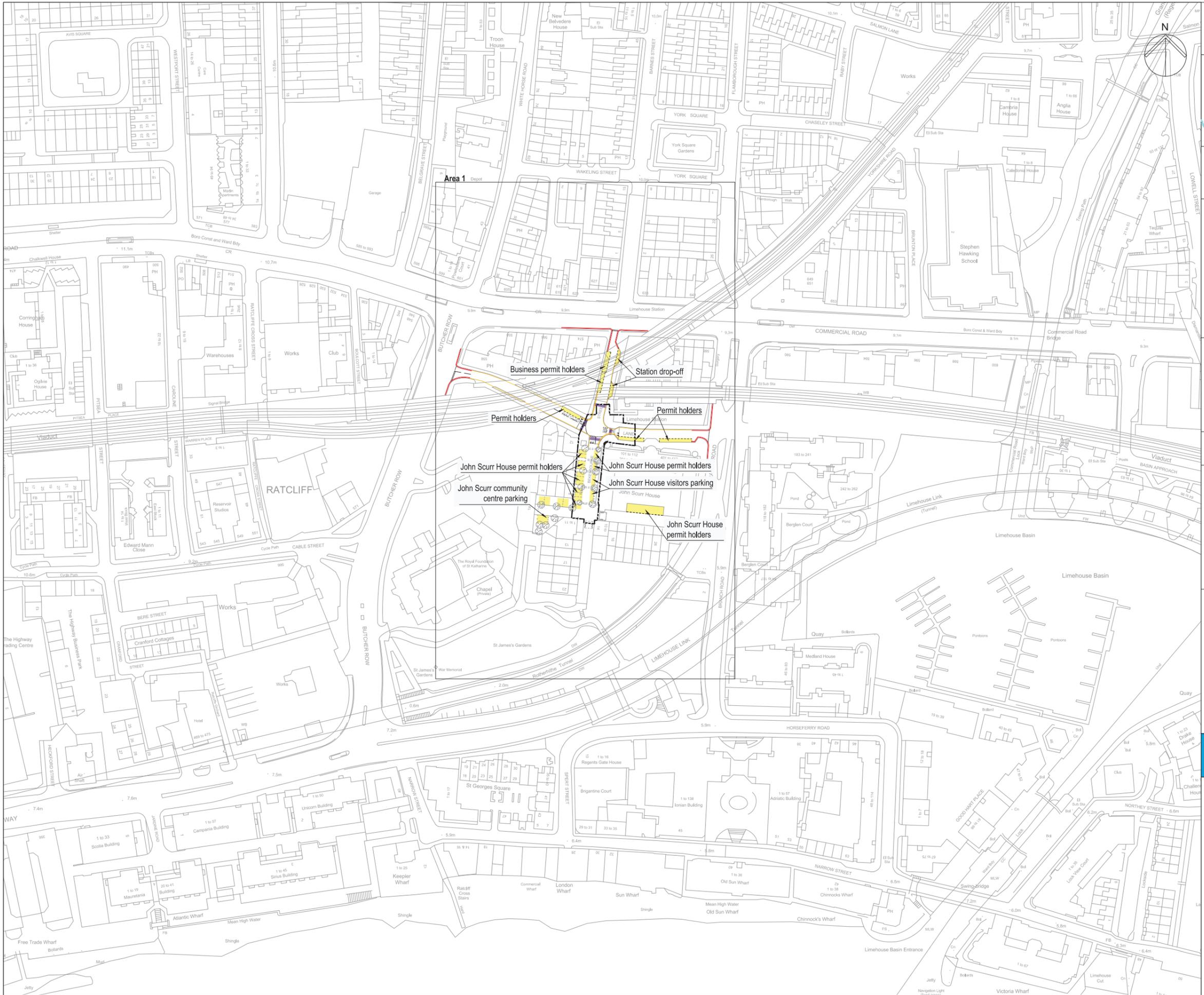
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**Location**  
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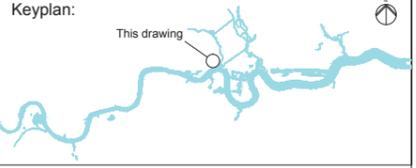
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**Application for Development Consent**  
 Construction phases

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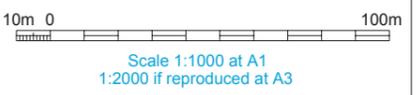
- Key**
- Existing
  - Red route parking restrictions
  - Parking restrictions
  - On street parking
  - Pedestrian crossing
  - Tree
- Revised**
- Limit of land to be acquired or used (LLAU)

**On Street Parking**

- Permit holders - Permit holders only Mon - Fri 8:30am - 5:30pm
- Station drop off - No waiting Mon - Fri 8:30am - 5:30pm
- John Scurr House permit holders - Residents parking
- John Scurr House visitors parking - Visitors parking
- Business permit holders - Business permit holders only Mon - Fri 8:30am - 5:30pm
- John Scurr community centre parking - Community centre parking

**Stage**  
Phase 1-3

- Standards**
- Design Manual For Roads And Bridges, Dft, 1992
  - Traffic Signs Regulations & General Directions, Tso, 2002
  - Traffic Signs Manual, Dft, 2006
  - Manual For Streets, Dft, 2007
  - Manual For Streets 2, Cihl, 2010
  - Designing For Deliveries, Fla, 1998
  - Cycle Infrastructure Design Ltn 2/08, Dft, 2008
  - Design Of Pedestrian Crossings Ltn 2/95, Dft, 1995
  - Guidance For The Use Of Tactile Paving, Dft, 1998
  - Accessible Bus Stop Design Guidance, TfL, 2006



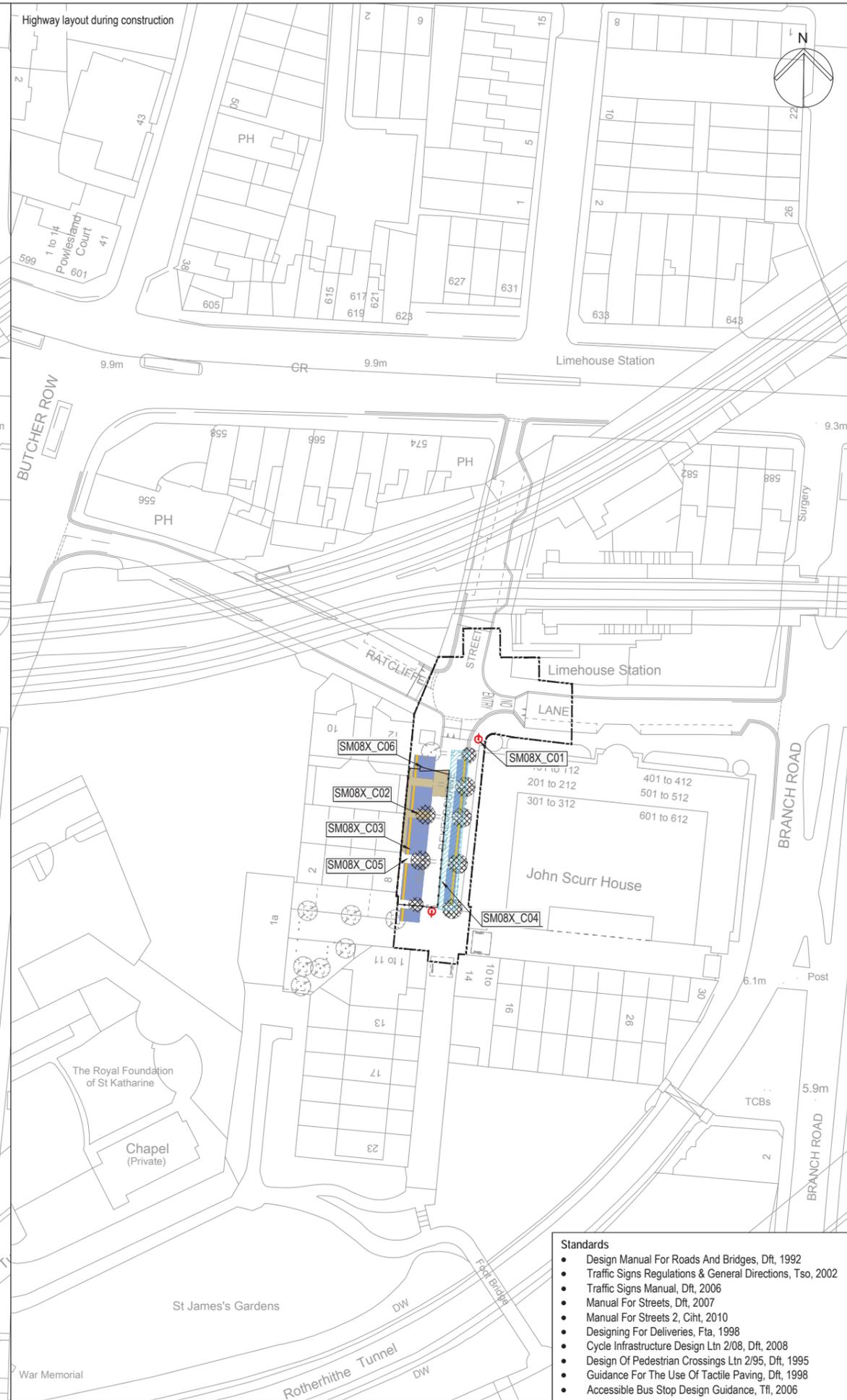
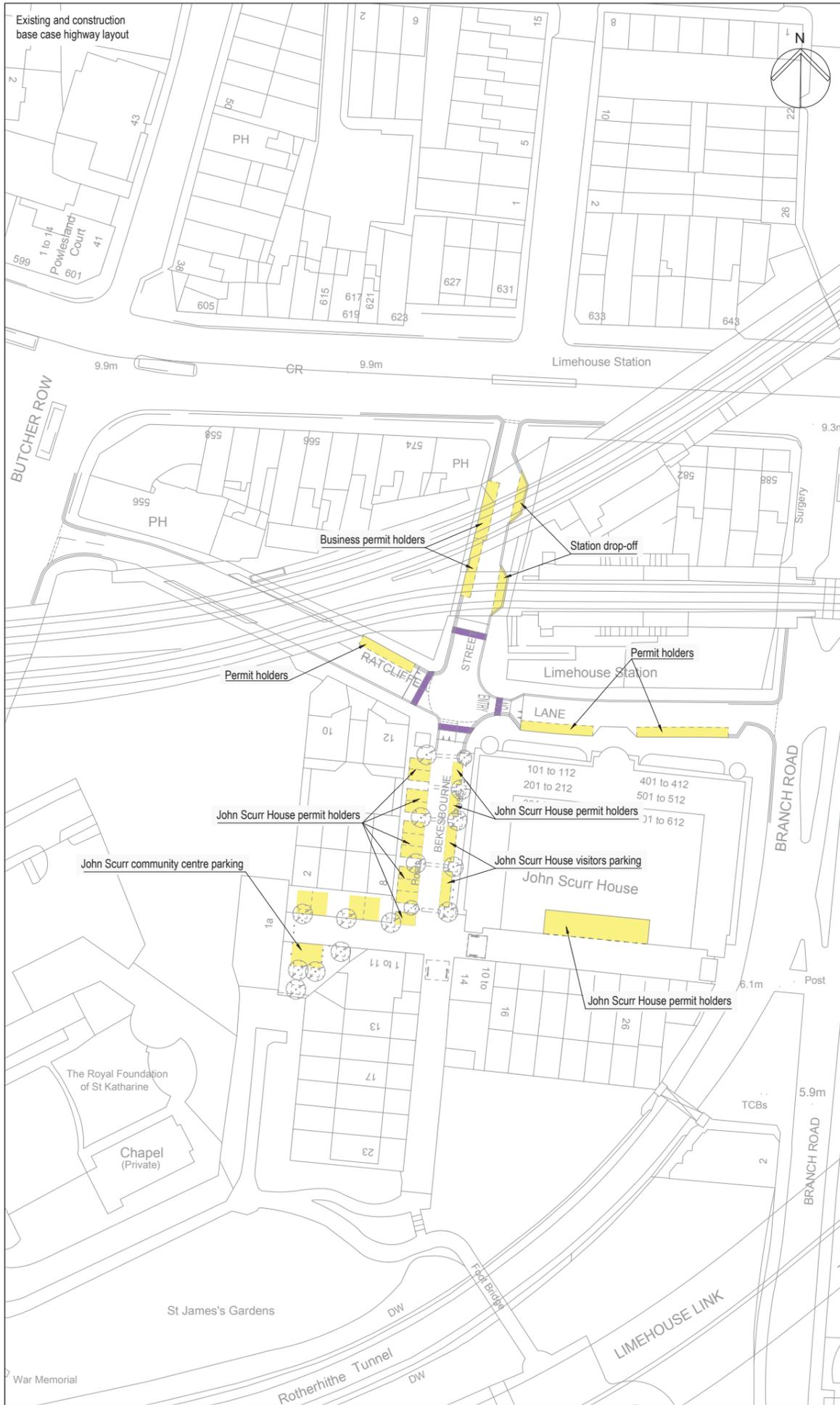
## FOR INFORMATION

**Location**  
Bekesbourne Street  
London Borough of Tower Hamlets

**Document Information**  
**Application for Development Consent**  
Existing and construction base case  
highway layout

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January 2013





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**Keyplan:**

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**Key**

Existing

- Parking restrictions
- On street parking
- Pedestrian crossing
- Tree

Revised

- Parking restrictions
- Illustrative on-site manoeuvring zone
- Suspended parking
- Diverted access road (new carriageway construction)
- Site hoarding
- Access gate
- Trees to be removed
- Temporary traffic signal
- Limit of land to be acquired or used (LLAU)
- SM08X\_C00 See schedule of works

**On Street Parking**

- Permit holders - Permit holders only Mon - Fri 8:30am - 5:30pm
- Station drop off - No waiting Mon - Fri 8:30am - 5:30pm
- John Scurr House permit holders - Residents parking
- John Scurr House visitors parking - Visitors parking
- Business permit holders - Business permit holders only Mon - Fri 8:30am - 5:30pm
- John Scurr community centre parking - Community centre parking

**Stage**

Phase 1

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**ILLUSTRATIVE**

**Location**

Bokesbourne Street  
London Borough of Tower Hamlets

**Document Information**

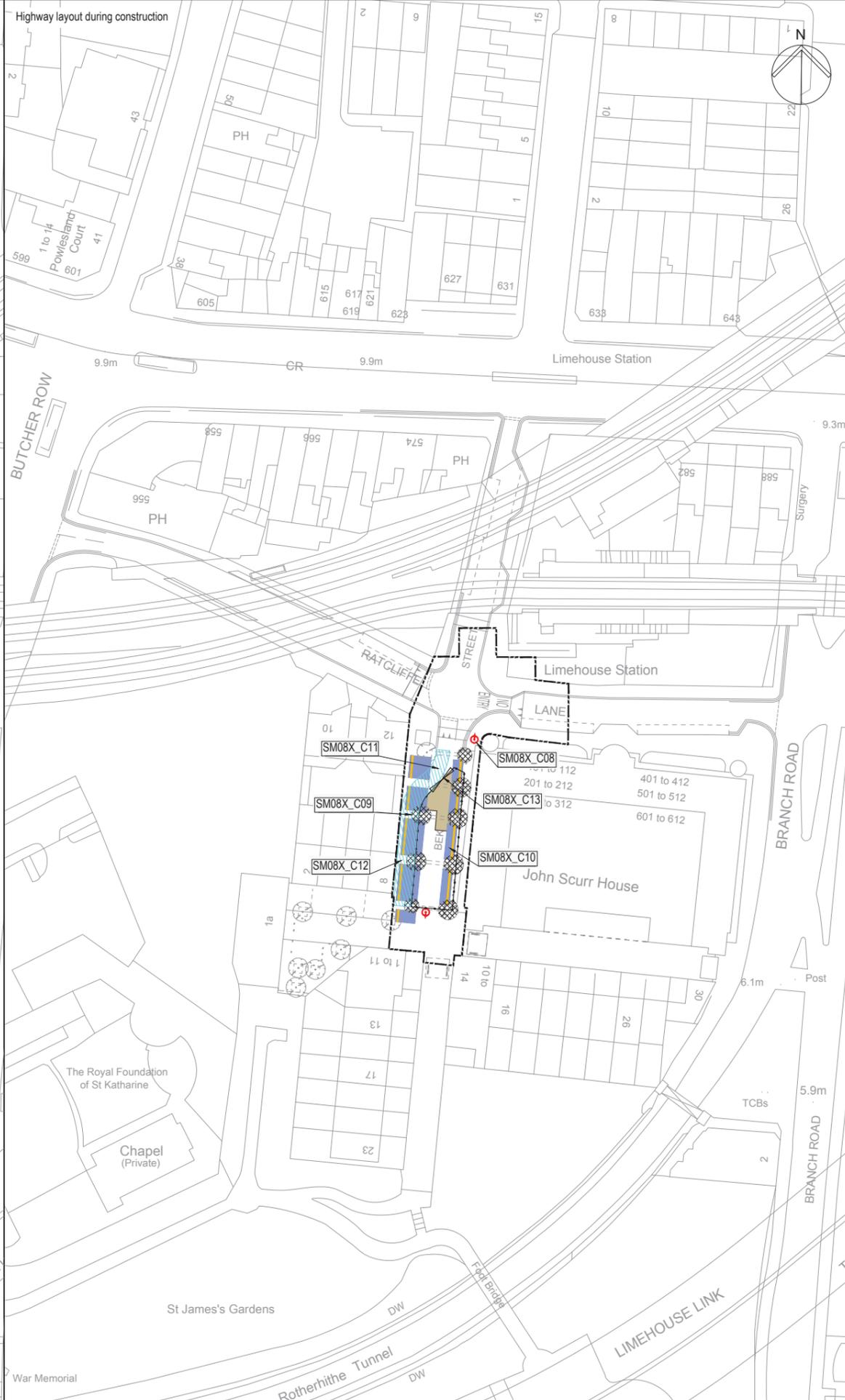
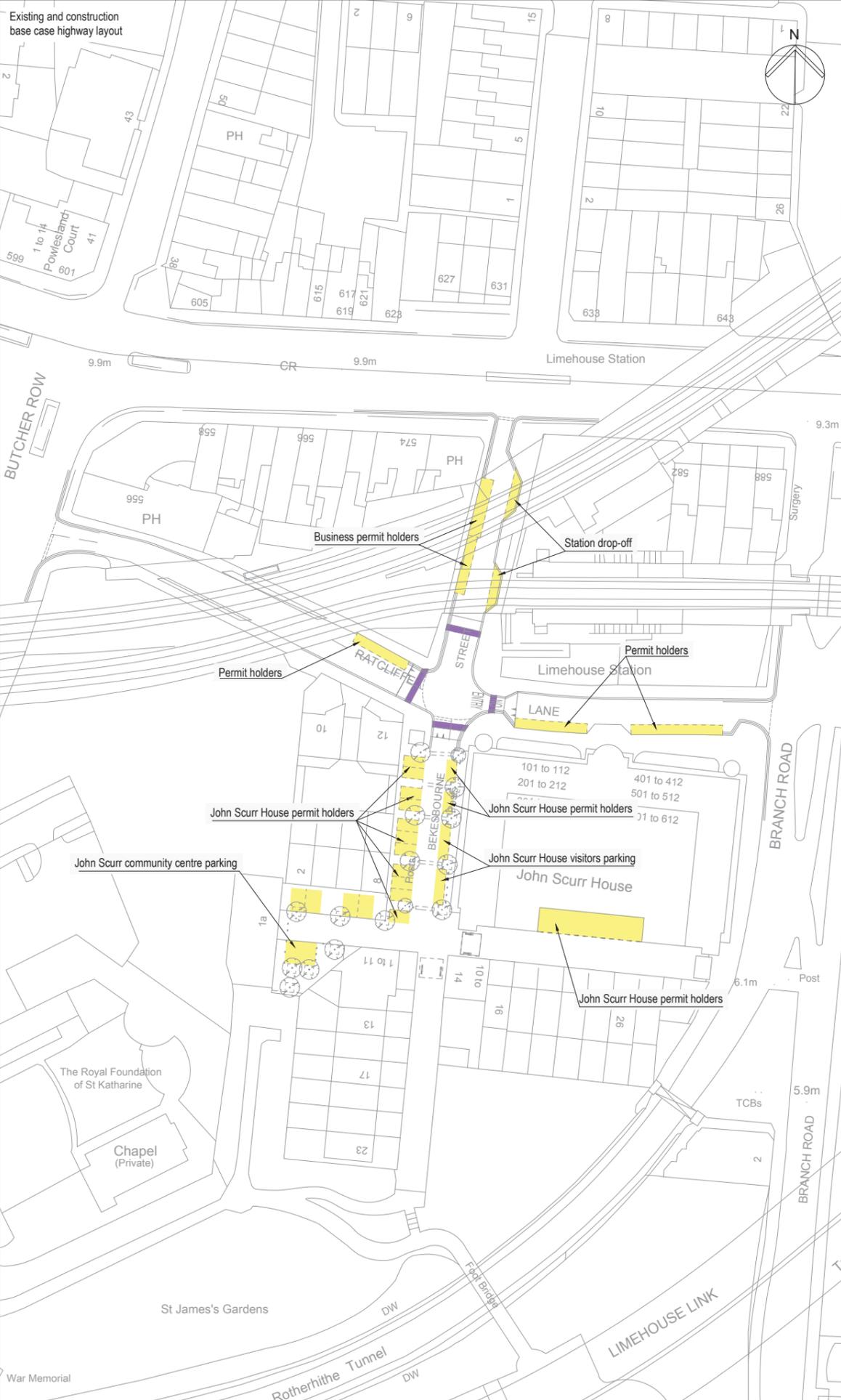
Application for Development Consent  
Highway layout during construction - Phase 1

DCO-PP-25X-BEKST-260011  
January 2013

**Standards**

- Design Manual For Roads And Bridges, Dft, 1992
- Traffic Signs Regulations & General Directions, Tso, 2002
- Traffic Signs Manual, Dft, 2006
- Manual For Streets, Dft, 2007
- Manual For Streets 2, Cihl, 2010
- Designing For Deliveries, Fta, 1998
- Cycle Infrastructure Design Ltn 2/08, Dft, 2008
- Design Of Pedestrian Crossings Ltn 2/95, Dft, 1995
- Guidance For The Use Of Tactile Paving, Dft, 1998
- Accessible Bus Stop Design Guidance, TfL, 2006

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**Keyplan:**

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Key**

**Existing**

- Parking restrictions
- On street parking
- Pedestrian crossing
- Tree

**Revised**

- Parking restrictions
- Illustrative on-site manoeuvring zone
- Suspended parking
- Diverted access road (new carriageway construction)
- Site hoarding
- Access gate
- Trees to be removed
- Temporary traffic signal
- Limit of land to be acquired or used (LLAU)

SM08X\_C00 See schedule of works

**On Street Parking**

- Permit holders - Permit holders only Mon - Fri 8:30am - 5:30pm
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- John Scurr House permit holders - Residents parking
- Business permit holders - Business permit holders only Mon - Fri 8:30am - 5:30pm
- John Scurr community centre parking - Community centre parking

**Stage**  
Phase 2

**Standards**

- Design Manual For Roads And Bridges, Dft, 1992
- Traffic Signs Regulations & General Directions, Tso, 2002
- Traffic Signs Manual, Dft, 2006
- Manual For Streets, Dft, 2007
- Manual For Streets 2, Cht, 2010
- Designing For Deliveries, Fla, 1998
- Cycle Infrastructure Design Ltn 2/08, Dft, 2008
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- Guidance For The Use Of Tactile Paving, Dft, 1998
- Accessible Bus Stop Design Guidance, TfL, 2006

10m 0 40m

Scale 1:500 at A1  
1:1000 if reproduced at A3

**ILLUSTRATIVE**

**Location**  
Bekesbourne Street  
London Borough of Tower Hamlets

**Document Information**  
Application for Development Consent  
Highway layout during construction - Phase 2

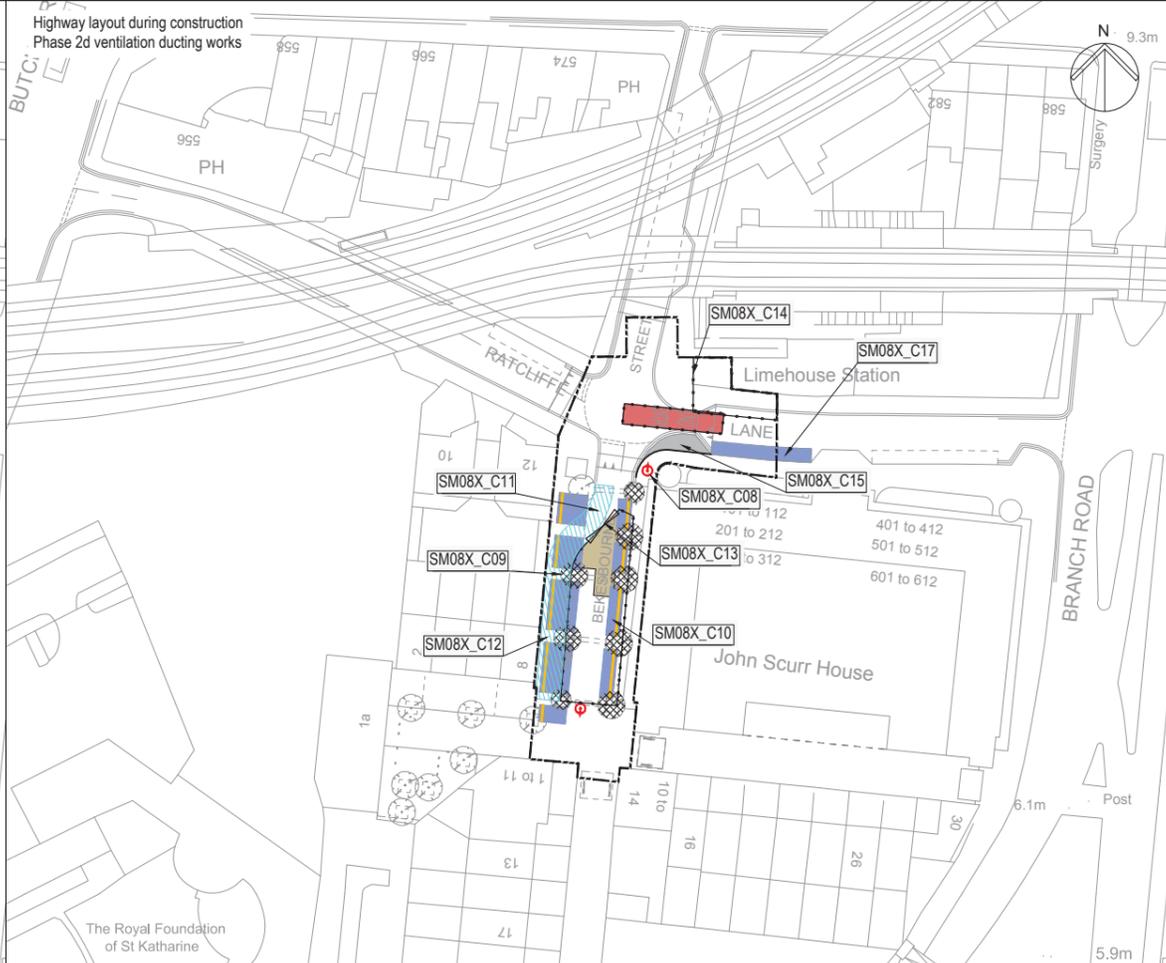
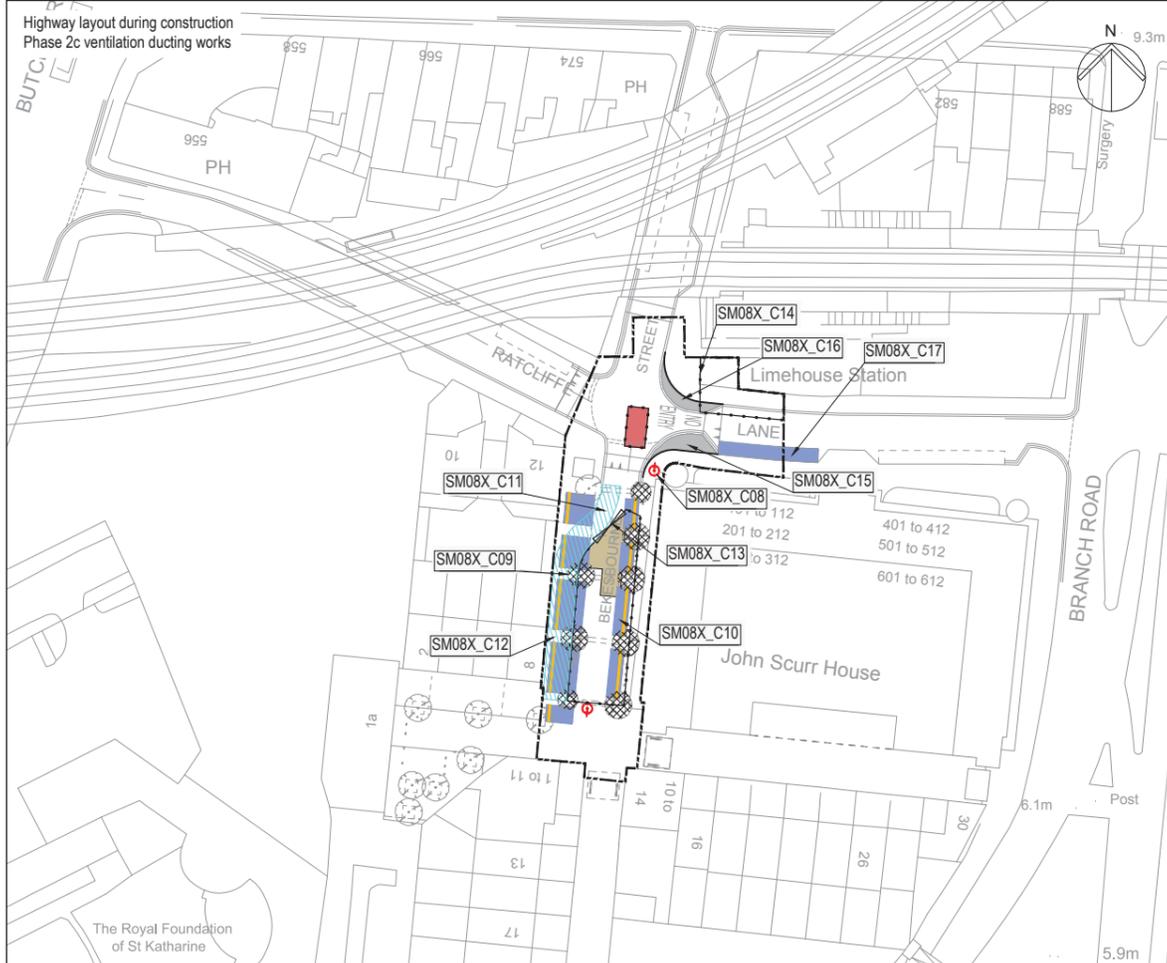
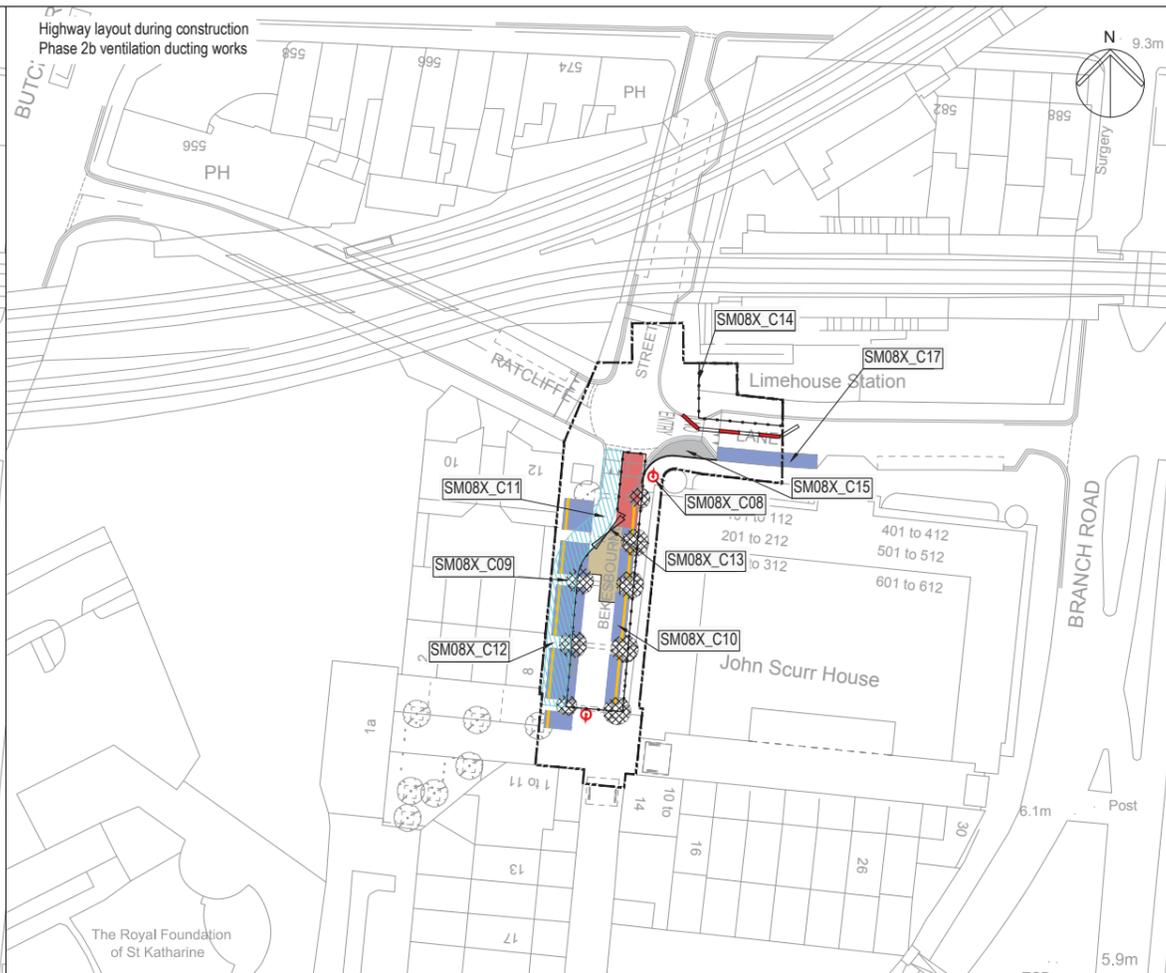
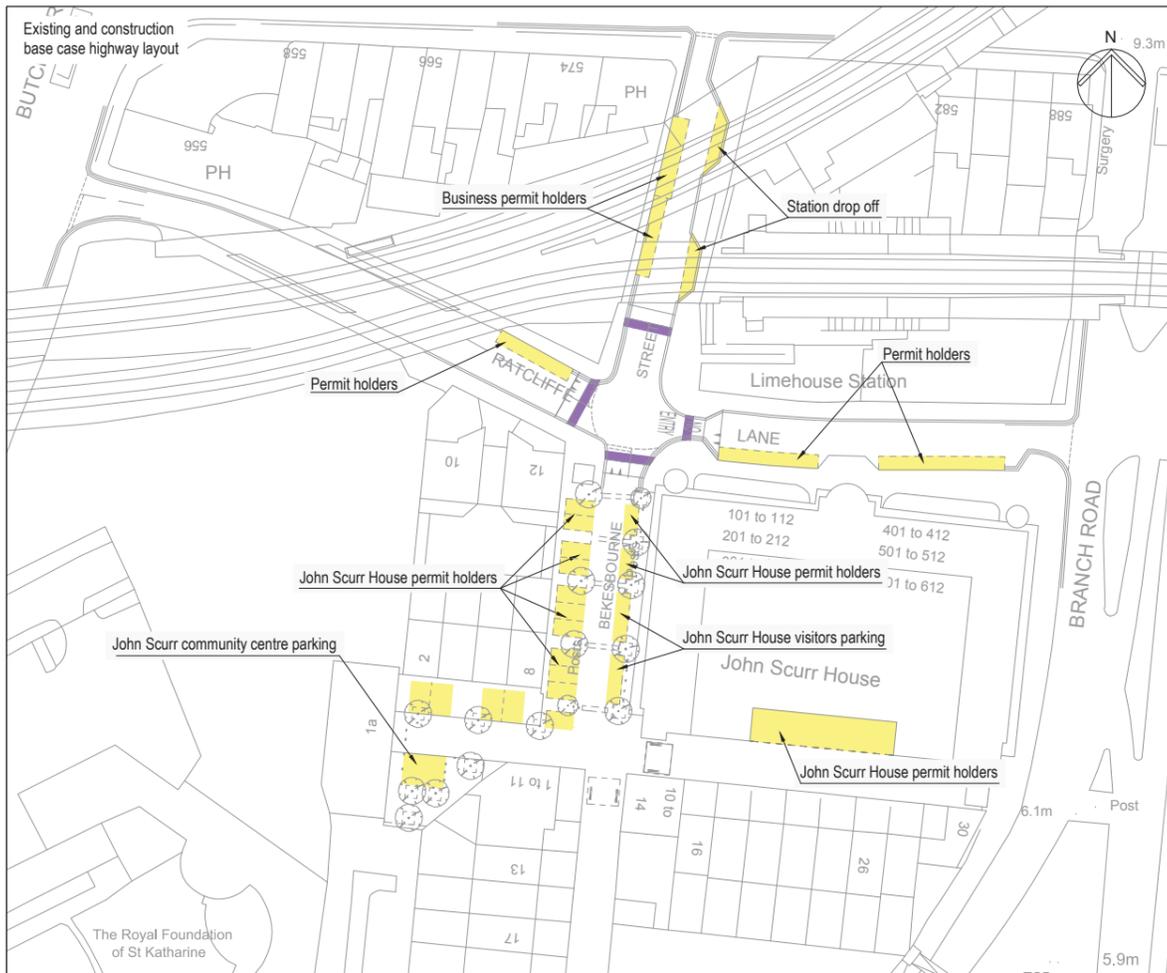
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January 2013

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Creating a cleaner, healthier River Thames

Thames Water

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**Keyplan:**

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**Key**

Existing

- Parking restrictions
- On street parking
- Pedestrian crossing
- Tree

Revised

- Parking restriction
- Suspended parking
- Illustrative on-site manoeuvring zone
- Removal of footway
- Ventilation compound
- Diverted access road (new carriageway construction)
- Pedestrian barrier
- Site hoarding
- Access gate
- Trees to be removed
- Temporary traffic signal
- Limit of land to be acquired or used (LLAU)

SM08X\_C00 See schedule of works

**On Street Parking**

Permit holders - Permit holders only Mon - Fri 8:30am - 5:30pm

Station drop off - No waiting Mon - Fri 8:30am - 5:30pm

John Scurr House permit holders - Residents parking

Business permit holders - Business permit holders only Mon - Fri 8:30am - 5:30pm

John Scurr community centre parking - Community centre parking

**Stage**

Phase 2b-2d

**Standards**

- Design Manual For Roads And Bridges, Dft, 1992
- Traffic Signs Regulations & General Directions, Tso, 2002
- Traffic Signs Manual, Dft, 2006
- Manual For Streets, Dft, 2007
- Manual For Streets 2, Cmt, 2010
- Designing For Deliveries, Fla, 1998
- Cycle Infrastructure Design Ltn 2/08, Dft, 2008
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- Guidance For The Use Of Tactile Paving, Dft, 1998
- Accessible Bus Stop Design Guidance, TfL, 2006

10m 0 40m

Scale 1:500 at A1  
1:1000 if reproduced at A3

**ILLUSTRATIVE**

**Location**

Bekesbourne Street  
London Borough of Tower Hamlets

**Document Information**

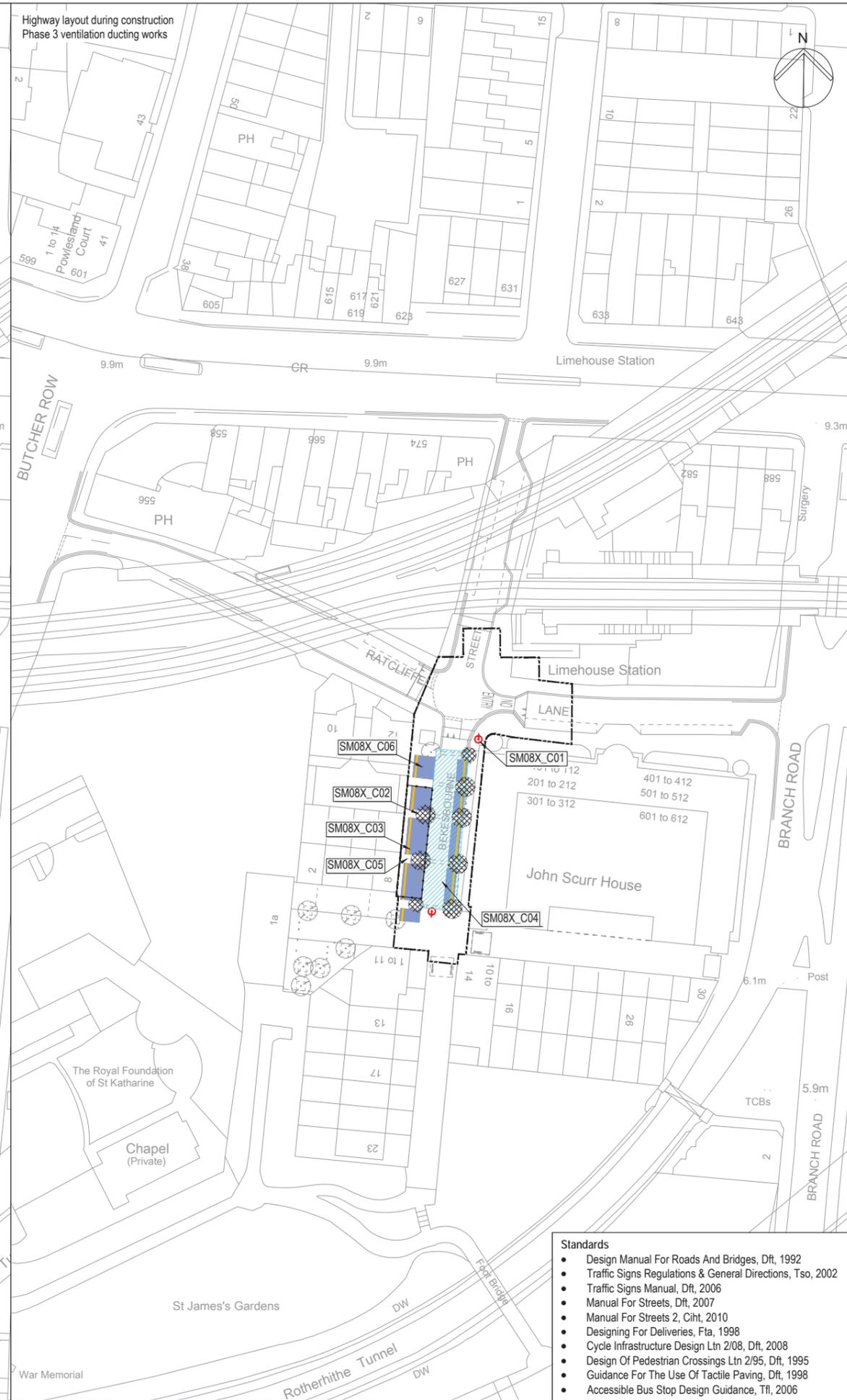
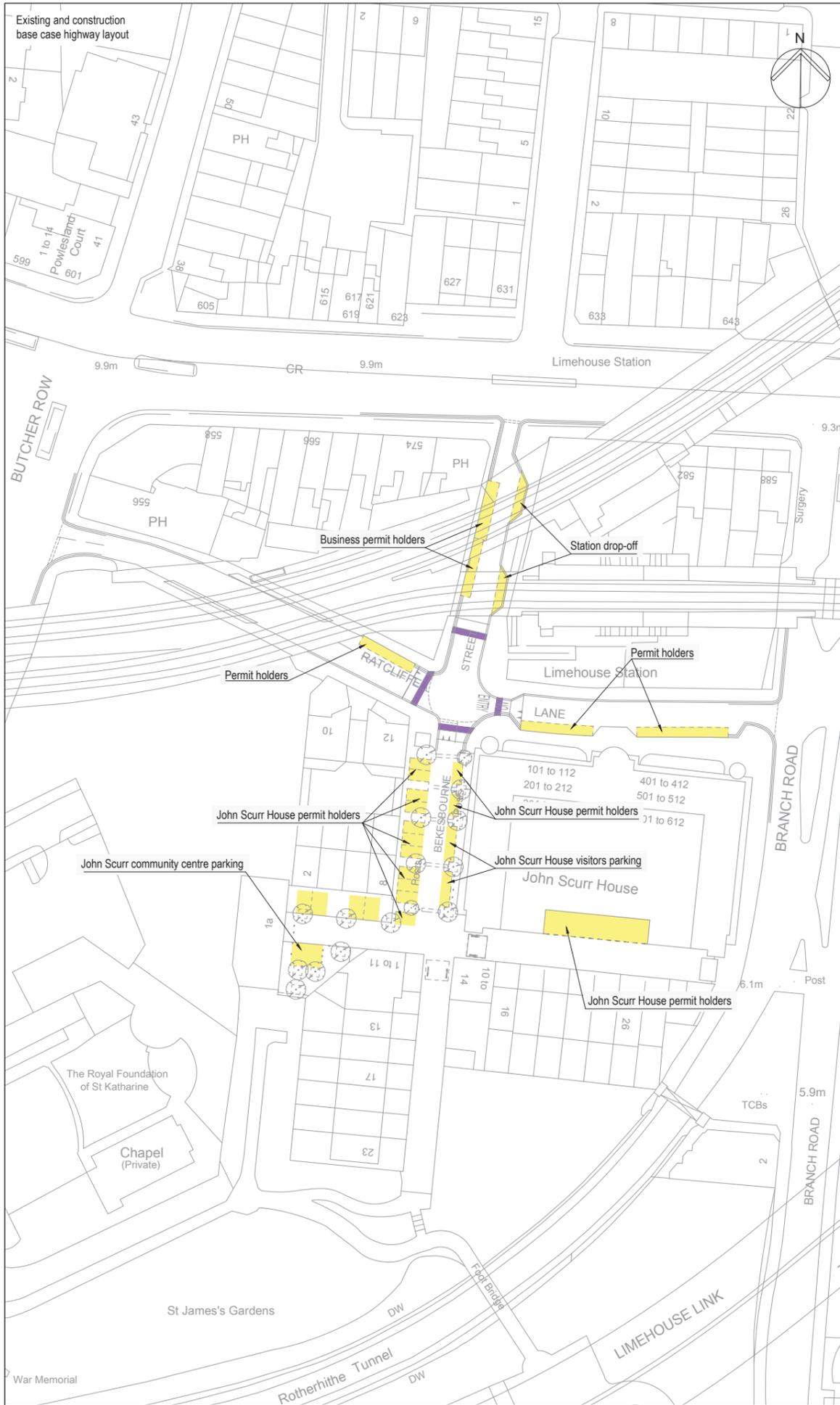
Application for Development Consent  
Highway layout during construction  
Phase 2b-2d

DCO-PP-25X-BEKST-260014  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames

Thames Water

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**Keyplan:**

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Key**

**Existing**

- Parking restrictions
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- Pedestrian crossing
- Tree

**Revised**

- Parking restrictions
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SM08X\_C00 See schedule of works

**On Street Parking**

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- John Scurr community centre parking - Community centre parking

**Stage**  
Phase 3

10m 0 40m  
Scale 1:500 at A1  
1:1000 if reproduced at A3

**ILLUSTRATIVE**

**Location**  
Bekesbourne Street  
London Borough of Tower Hamlets

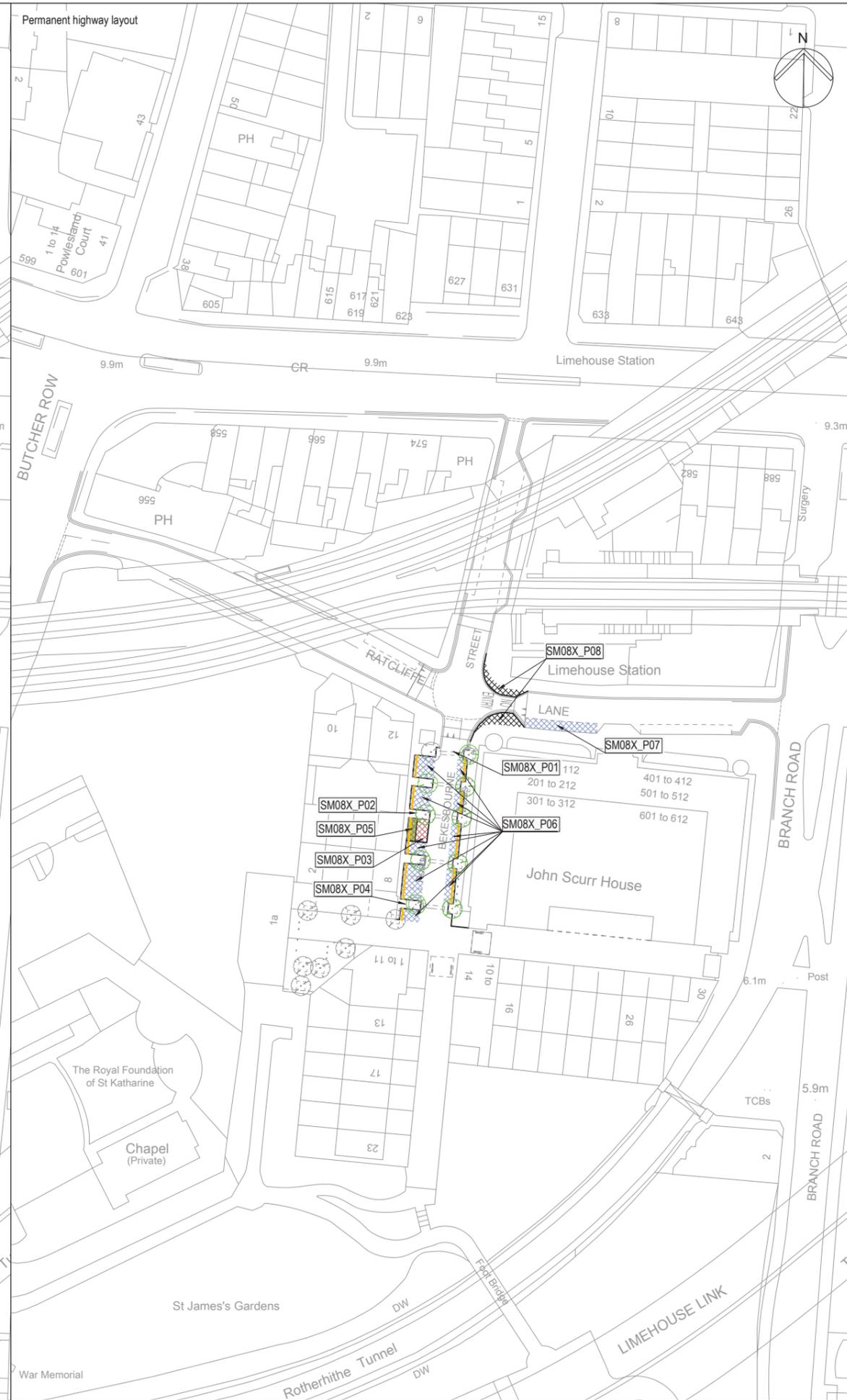
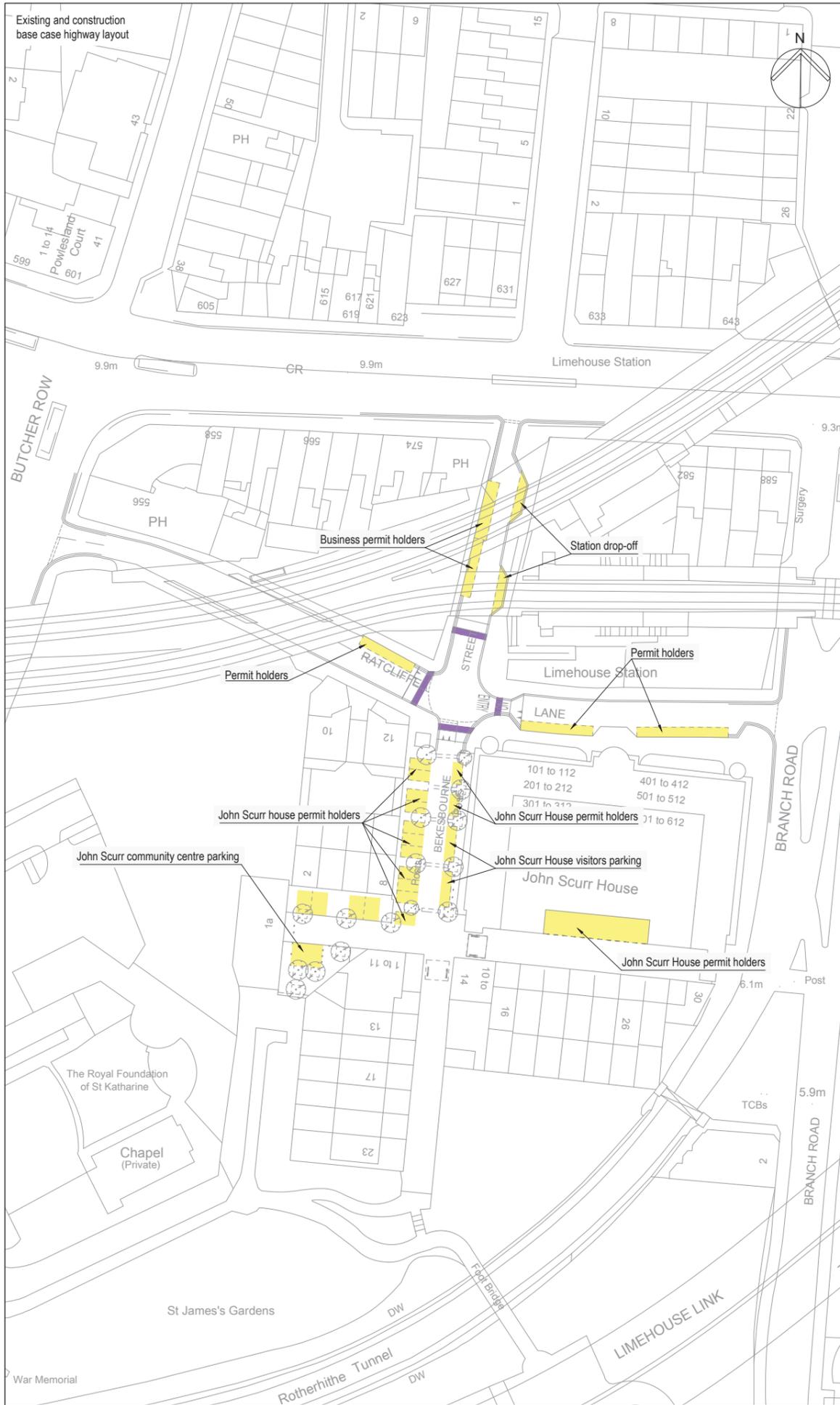
**Document Information**  
Application for Development Consent  
Highway layout during construction - Phase 3

DCO-PP-25X-BEKST-260015  
January 2013

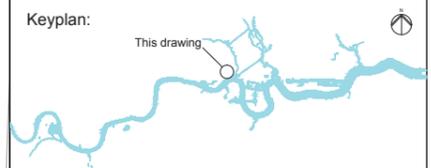
**Standards**

- Design Manual For Roads And Bridges, Dft, 1992
- Traffic Signs Regulations & General Directions, Tso, 2002
- Traffic Signs Manual, Dft, 2006
- Manual For Streets, Dft, 2007
- Manual For Streets 2, Cihit, 2010
- Designing For Deliveries, Fta, 1998
- Cycle Infrastructure Design Ltn 2/08, Dft, 2008
- Design Of Pedestrian Crossings Ltn 2/95, Dft, 1995
- Guidance For The Use Of Tactile Paving, Dft, 1998
- Accessible Bus Stop Design Guidance, TfL, 2006

© Thames Water Utilities Ltd 2008



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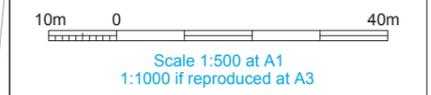
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key	
<b>Existing</b>	
	Parking restrictions
	On street parking
	Pedestrian crossing
	Tree
<b>Revised</b>	
	Parking restrictions
	Reinstated parking
	Reinstated footway
	Replaced trees
	Electrical control kiosk
	Permanently removed parking
	SM08X_P00 See schedule of works

**On Street Parking**  
 Permit holders - Permit holders only Mon - Fri 8:30am - 5:30pm  
 Station drop off - No waiting Mon - Fri 8:30am - 5:30pm  
 John Scurr House permit holders - Residents parking  
 John Scurr House visitors parking - Visitors parking  
 Business permit holders - Business permit holders only Mon - Fri 8:30am - 5:30pm  
 John Scurr community centre parking - Community centre parking

**Stage**  
 Permanent phase

- Standards**
- Design Manual For Roads And Bridges, Dft, 1992
  - Traffic Signs Regulations & General Directions, Tso, 2002
  - Traffic Signs Manual, Dft, 2006
  - Manual For Streets, Dft, 2007
  - Manual For Streets 2, Cilt, 2010
  - Designing For Deliveries, Fta, 1998
  - Cycle Infrastructure Design Ltn 2/08, Dft, 2008
  - Design Of Pedestrian Crossings Ltn 2/95, Dft, 1995
  - Guidance For The Use Of Tactile Paving, Dft, 1998
  - Accessible Bus Stop Design Guidance, TfL, 2006



ILLUSTRATIVE

**Location**  
 Bokesbourne Street  
 London Borough of Tower Hamlets

**Document Information**  
 Application for Development Consent  
 Permanent highway layout - Area 1 work

DCO-PP-25X-BEKST-260016  
 January 2013



## 2 Environmental impact assessment figures

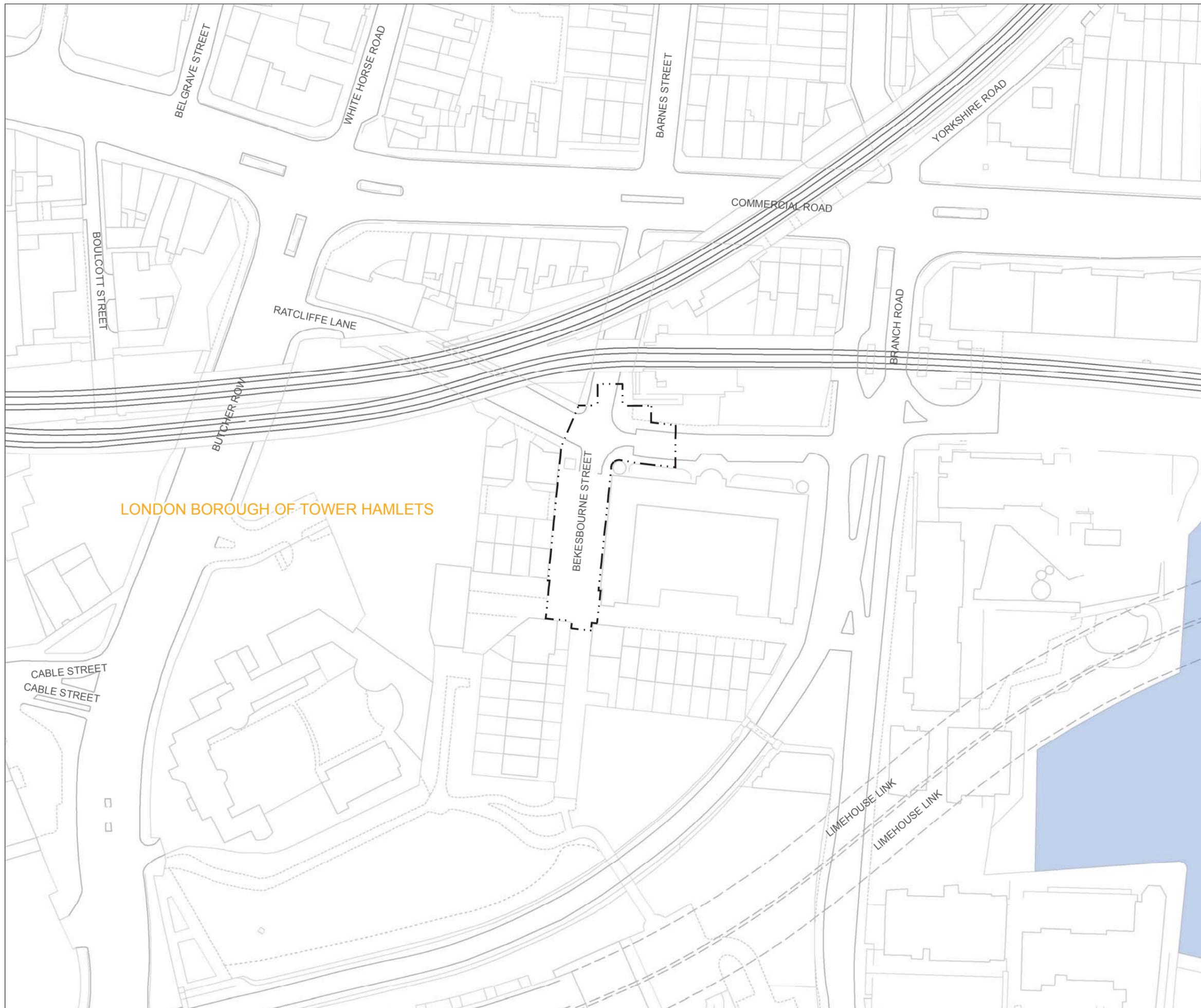
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Key

- Limits of Land to be Acquired or Used
- Local Authority Boundary
- River Thames



LONDON BOROUGH OF TOWER HAMLETS



Scale 1 : 1,000 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

**Environmental Statement**

Site location plan  
Vol. 27 Figure 2.1.1

1PL03-MG-00719  
January 2013

**Thames Tideway Tunnel**  
Creating a cleaner, healthier River Thames



Keyplan:

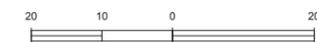


Key

--- Limits of Land  
 - - - to be Acquired or Used

Land Use

- Class A1-A5  
 (Shops, Financial & Professional Services, Restaurants, Drinking Establishments and Hot Food Takeaways)
- Class B1  
 (Business (Offices except A2) Research and Development, Light Industry)
- Class B2-B8  
 (General Industrial / Storage or Distribution)
- Class C3-C4  
 (Dwelling Houses)
- Class D1-D2  
 (Non Residential Institutions (Community Facilities) and Assembly and Leisure)
- Mixed Use
- Other
- Open Space



Scale 1 : 1,000 at A3

## FOR INFORMATION

[Location](#)

**Bekesbourne Street**  
 London Borough of Tower Hamlets

[Document Information](#)

**Environmental Statement**

Land use  
 Vol. 27 Figure 2.1.2

1PL03-MG-00767  
 January 2013



- Key**
- Listed Building Point
  - - - Limits of Land to be Acquired or Used
  - ▨ Listed Building Area
  - ▧ LPA Conservation Area
  - ▭ Local Authority Boundary
  - ▭ River Thames
  - Sites of Importance for Nature Conservation (SINC)
  - Metropolitan Importance



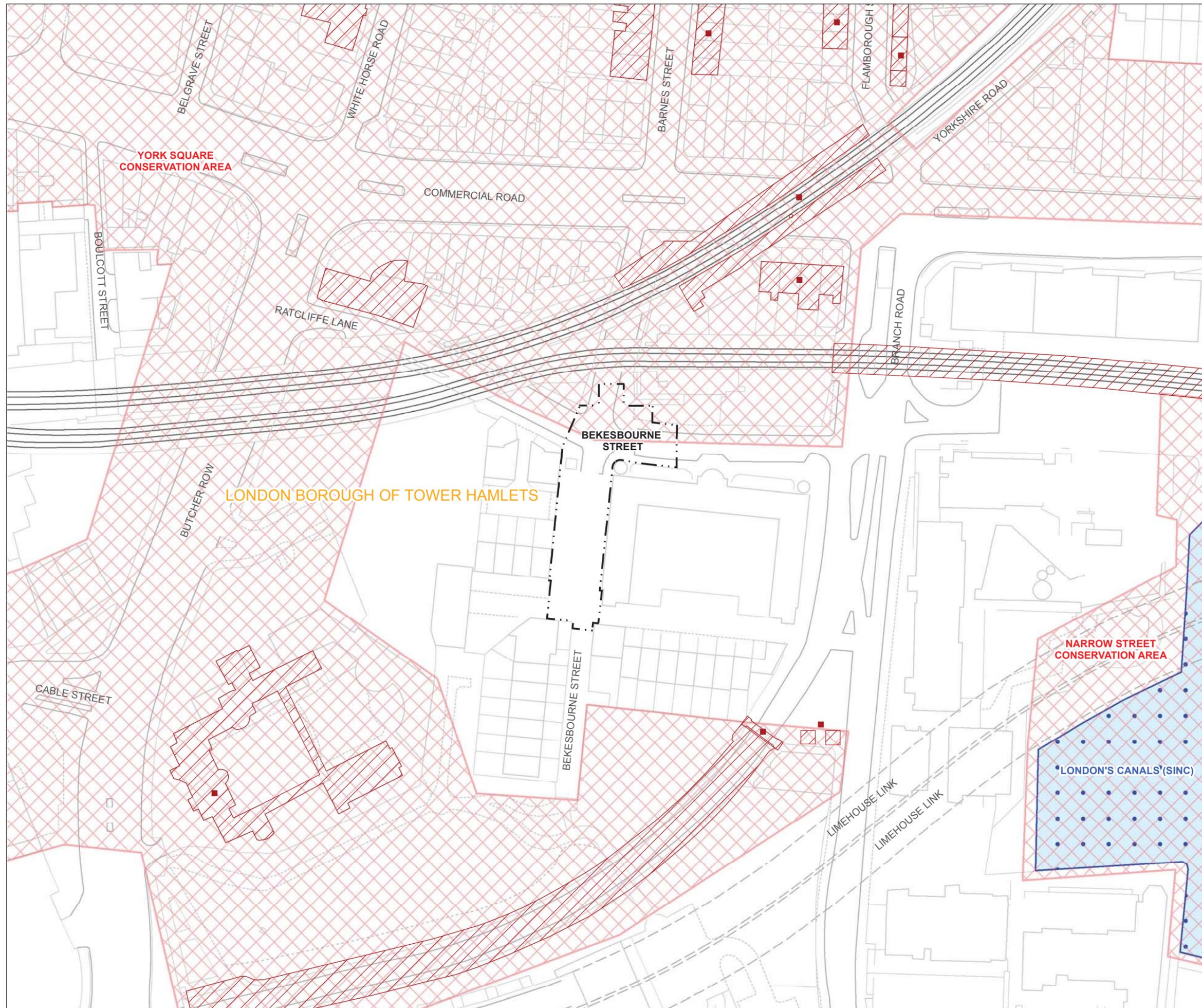
Scale 1 : 1,000 at A3

## FOR INFORMATION

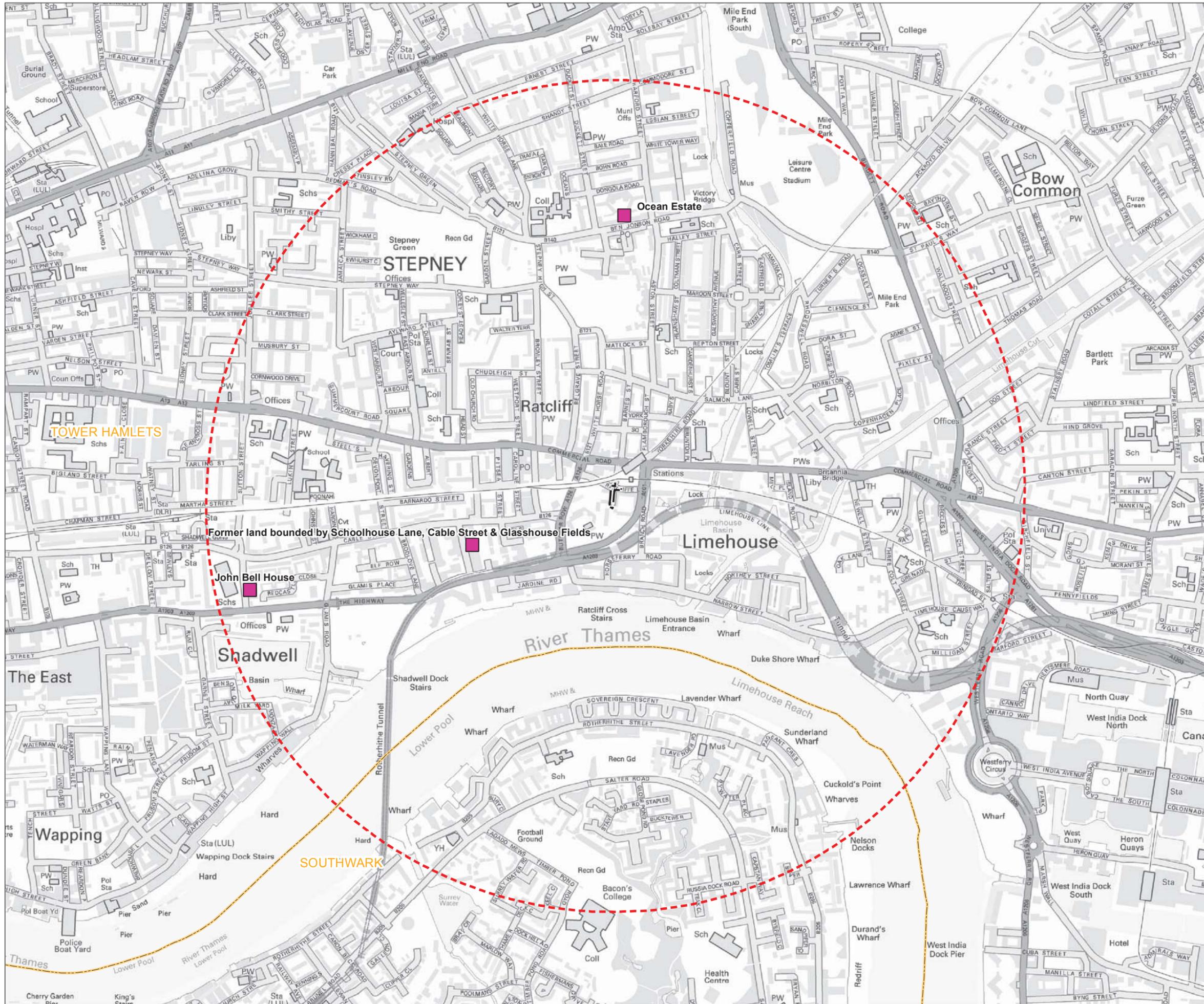
**Location**  
**Bekesbourne Street**  
 London Borough of Tower Hamlets

**Document Information**  
**Environmental Statement**  
 Environmental setting  
 Vol. 27 Figure 2.1.3

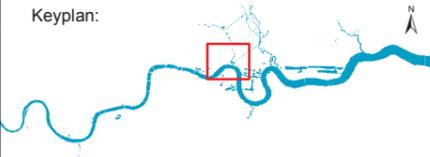
1PL03-MG-00677  
 January 2013



LONDON BOROUGH OF TOWER HAMLETS



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- Key**
- Planning Application
  - Limits of Land to be Acquired or Used
  - Planning Application (1km Boundary)
  - Local Authority Boundary

Note: This plan does not show the full extent for each planning application, but a single point within the application site.



## FOR INFORMATION

**Location**  
**Bekesbourne Street**  
 London Borough of Tower Hamlets

**Document Information**  
**Environmental Statement**  
 Base case and cumulative development projects  
 Vol. 27 Figure 3.5.1  
 1PL03-MG-00741  
 January 2013

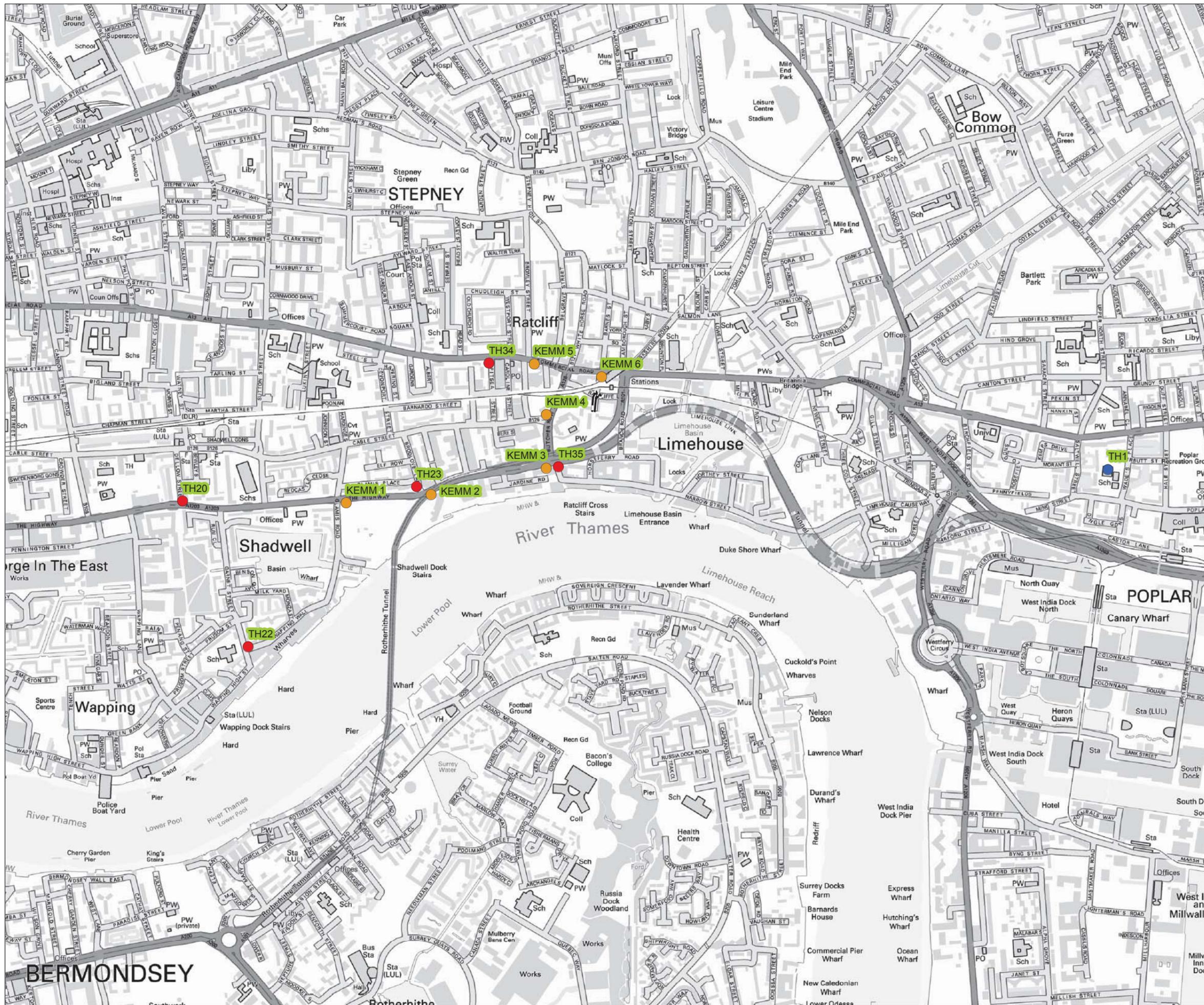


Keyplan:



Key

- Limits of Land to be Acquired or Used
- Existing Local Authority Continuous Monitors
- Existing Local Authority Diffusion Tubes
- New Diffusion Tubes (Project)



150 75 0 150 m

Scale 1 : 10,000 at A3

## FOR INFORMATION

[Location](#)

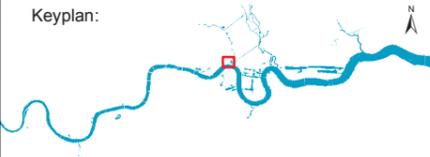
**Bekesbourne Street**  
London Borough of Tower Hamlets

[Document Information](#)

**Environmental Statement**

Air quality and odour - air quality monitoring sites  
Vol.27 Figure 4.4.1  
1PL03-AQ-10805  
January 2013





- Key**
- Limits of Land to be Acquired or Used
  - Modelled Receptors
- Note: The receptors are selected on the basis that they are representative of sensitive land uses closest to the site.
- OWSR 1 - 12 Ratcliffe Lane
  - OWSR 2 - Grocery Shop
  - OWSR 3 - John Scurr House
  - OWSR 4 - John Scurr Community Centre
  - OWSR 5 - 8 Bekesbourne Street
  - OWSR 6 - 1-11 Bekesbourne Street
  - OWSR 7 - 10-14 Bekesbourne Street
  - OWSR 8 - St James's Gardens
  - OWSR 9 - Stephen Hawking School



### FOR INFORMATION

**Location**  
**Bekesbourne Street**  
 London Borough of Tower Hamlets

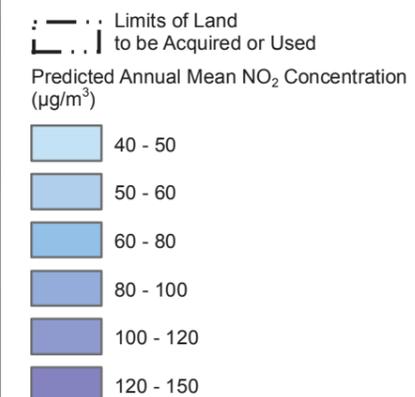
**Document Information**  
**Environmental Statement**  
 Air quality and odour - modelled air quality receptors  
 Vol.27 Figure 4.4.2  
 1PL03-AQ-10807  
 January 2013



Keyplan:



Key



Scale 1 : 1,250 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

**Environmental Statement**

Air quality and odour - annual mean NO<sub>2</sub> for 2010 baseline  
Vol.27 Figure 4.5.1  
1PL03-AQ-10808  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames



Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean NO<sub>2</sub> Concentration (µg/m<sup>3</sup>)
- < 40
- 40 - 50
- 50 - 60
- 60 - 80
- 80 - 100
- 100 - 120



Scale 1 : 1,250 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

**Environmental Statement**

Air quality and odour - annual mean NO<sub>2</sub> for peak construction year base case  
Vol.27 Figure 4.5.2

1PL03-AQ-10809  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames



Keyplan:



Key

- · · · Limits of Land to be Acquired or Used
- Predicted Annual Mean NO<sub>2</sub> Concentration (µg/m<sup>3</sup>)
- < 40
- 40 - 50
- 50 - 60
- 60 - 80
- 80 - 100
- 100 - 120



Scale 1 : 1,250 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

**Environmental Statement**

Air quality and odour - annual mean NO<sub>2</sub> for peak construction year development case Vol.27 Figure 4.5.3

1PL03-AQ-10810  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames

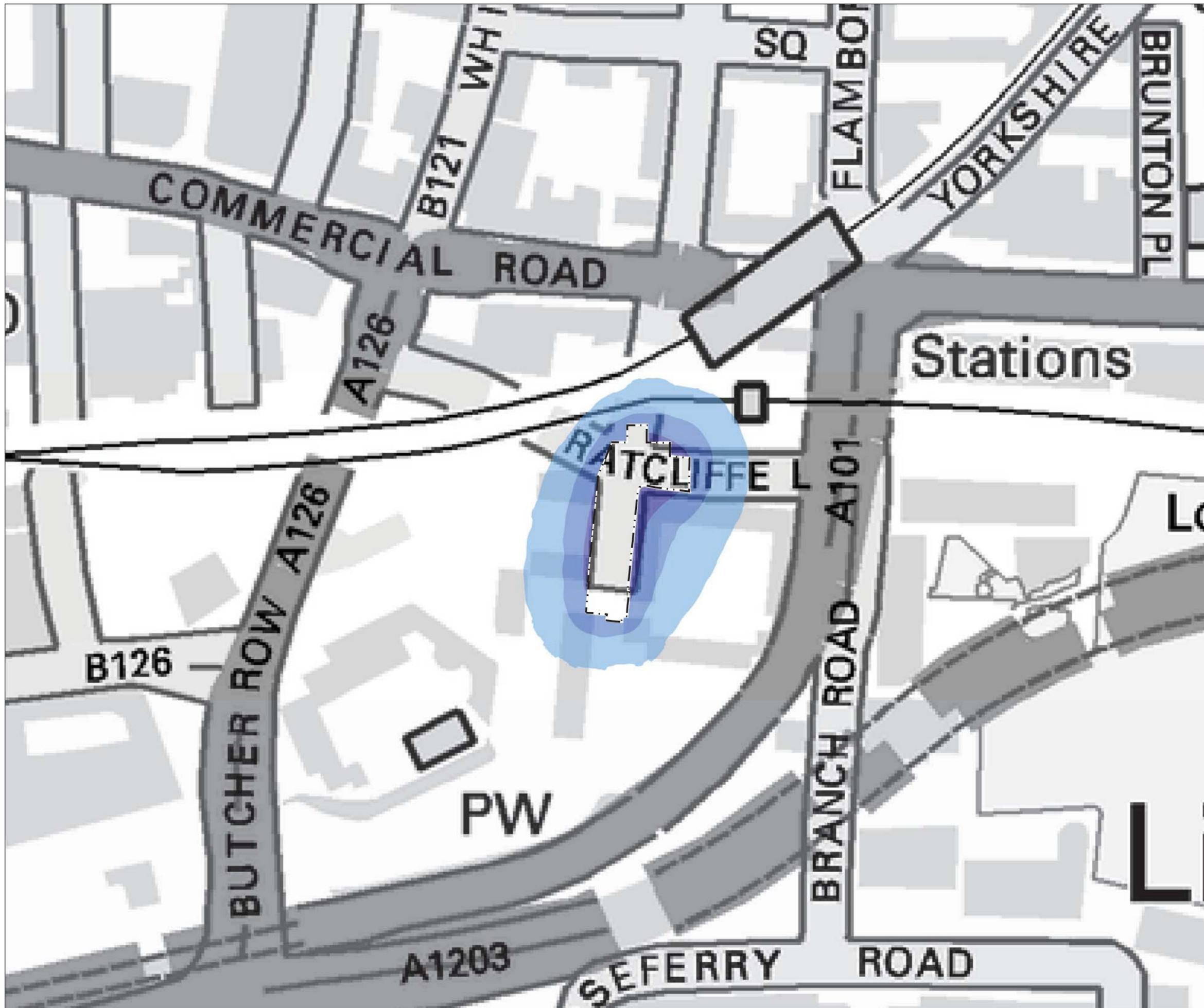


Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean NO<sub>2</sub> Impact (µg/m<sup>3</sup>)
- < 0.4
- 0.4 - 1
- 1 - 2
- 2 - 3.2



Scale 1 : 1,250 at A3

### FOR INFORMATION

**Location**  
Bekesbourne Street  
London Borough of Tower Hamlets

**Document Information**  
Environmental Statement

Air quality and odour - annual mean NO<sub>2</sub> impact for peak construction year  
Vol.27 Figure 4.5.4

1PL03-AQ-10811  
January 2013

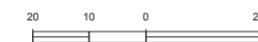
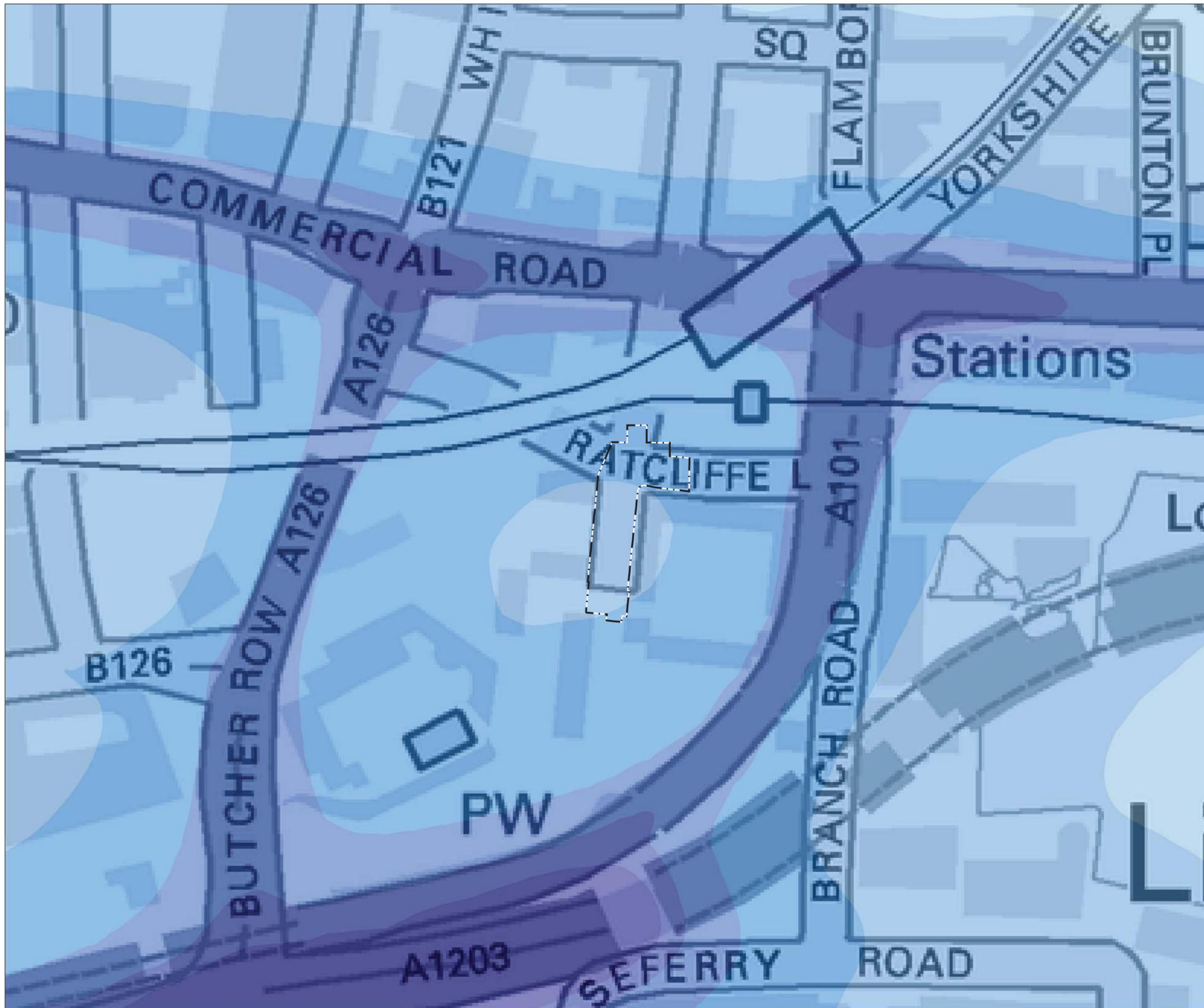


Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean PM<sub>10</sub> Concentration (µg/m<sup>3</sup>)
- 23 - 25
- 25 - 27
- 27 - 30
- 30 - 35
- 35 - 40
- 40 - 50



Scale 1 : 1,250 at A3

### FOR INFORMATION

**Location**  
Bekesbourne Street  
London Borough of Tower Hamlets

**Document Information**  
**Environmental Statement**  
Air quality and odour - annual mean PM<sub>10</sub>  
for 2010 baseline  
Vol.27 Figure 4.5.5  
1PL03-AQ-10812  
January 2013



Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean PM<sub>10</sub> Concentration (µg/m<sup>3</sup>)**
- < 23
- 23 - 25
- 25 - 27
- 27 - 30
- 30 - 35
- 35 - 40



Scale 1 : 1,250 at A3

## FOR INFORMATION

**Location**

**Bekesbourne Street**  
London Borough of Tower Hamlets

**Document Information**

**Environmental Statement**

Air quality and odour - annual mean PM<sub>10</sub>  
for peak construction year base case  
Vol.27 Figure 4.5.6

1PL03-AQ-10813  
January 2013

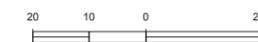
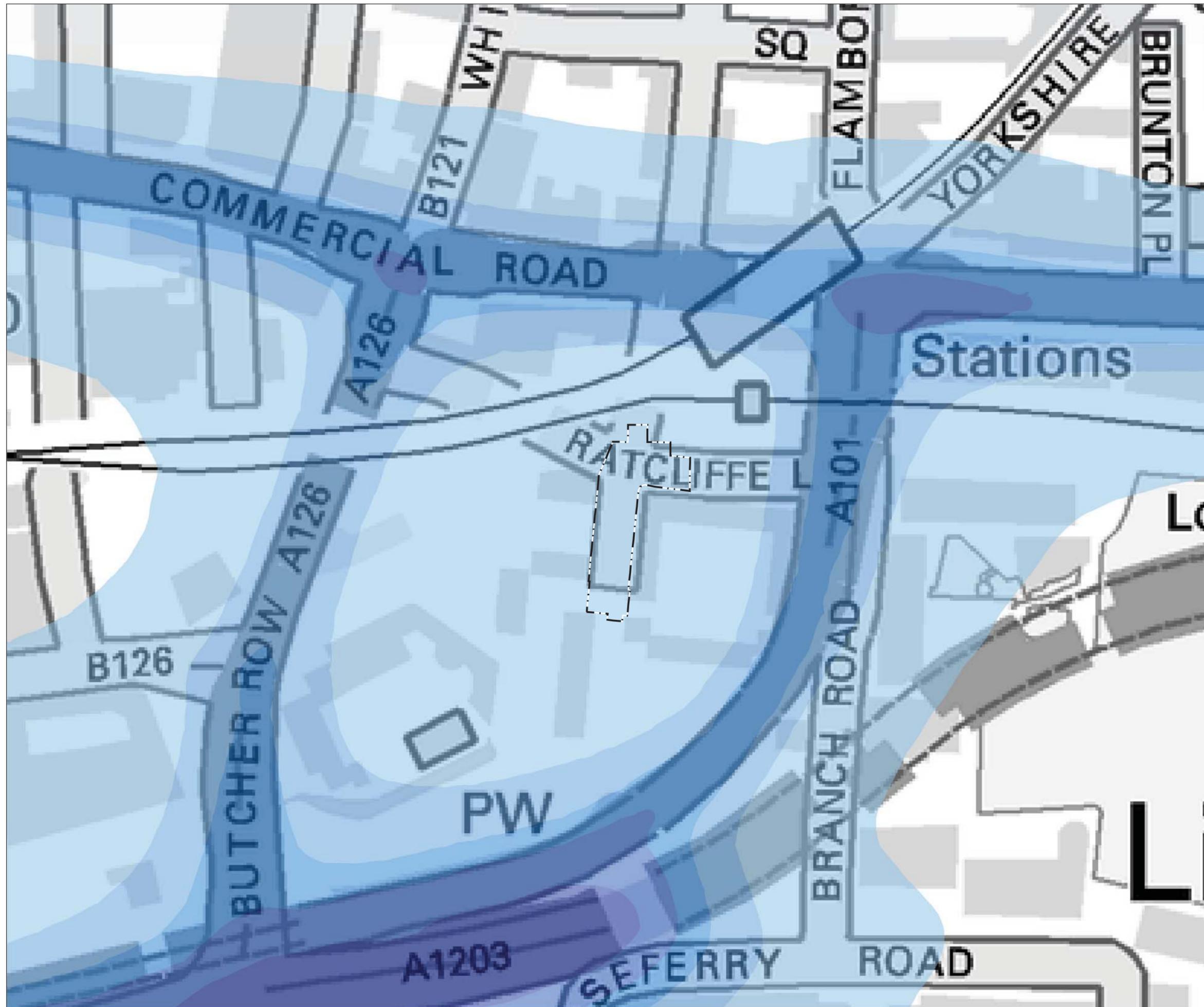


Keyplan:



Key

- · · · Limits of Land to be Acquired or Used
- Predicted Annual Mean PM<sub>10</sub> Concentration (µg/m<sup>3</sup>)
- < 23
- 23 - 25
- 25 - 27
- 27 - 30
- 30 - 35
- 35 - 40



Scale 1 : 1,250 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

**Environmental Statement**

Air quality and odour - annual mean PM<sub>10</sub>  
for peak construction year development case  
Vol.27 Figure 4.5.7

1PL03-AQ-10814  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames

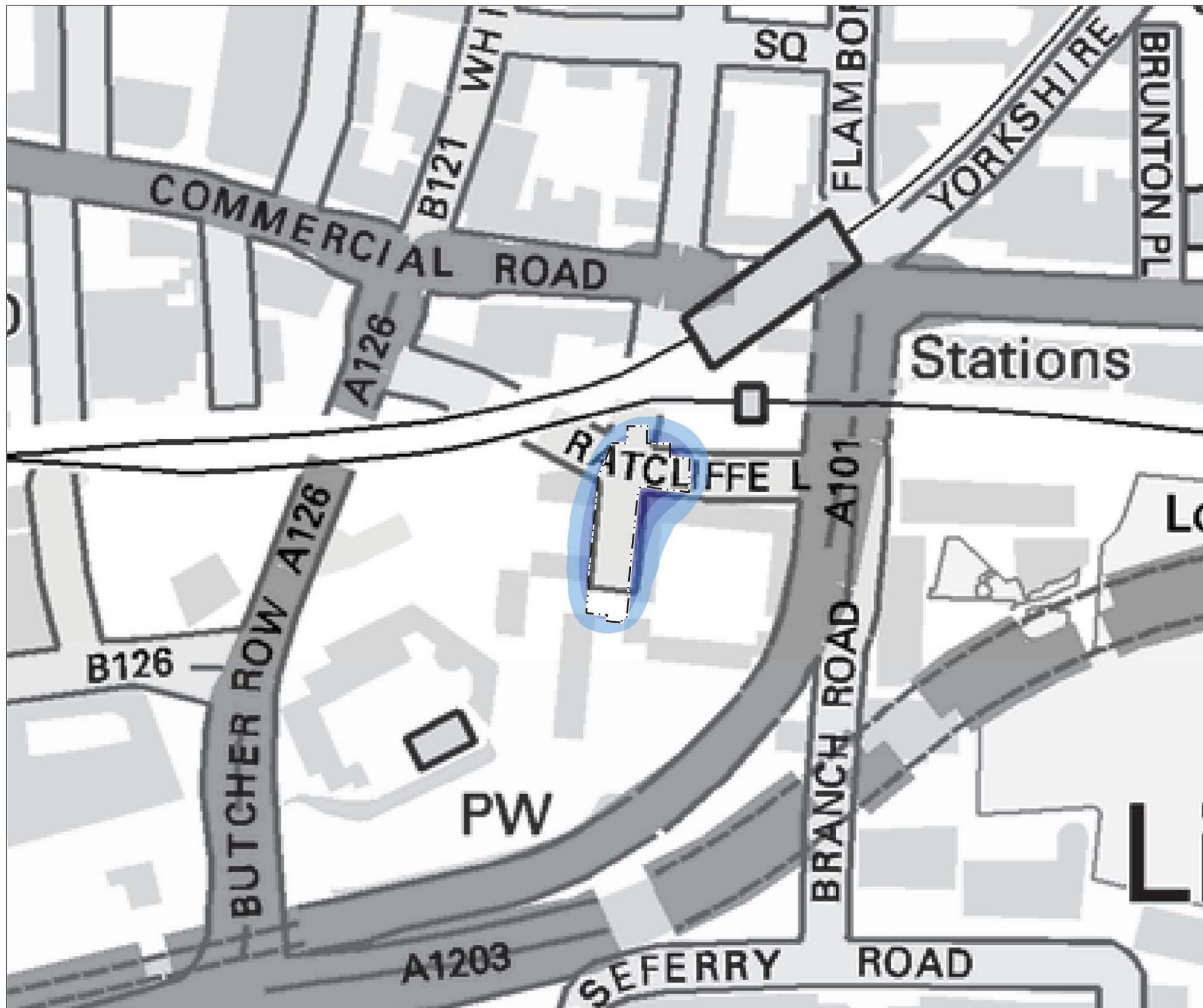


Keyplan:



Key

- Limits of Land
- - - to be Acquired or Used
- Predicted Annual Mean PM<sub>10</sub> Impact (µg/m<sup>3</sup>)
- < 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.6



Scale 1 : 1,250 at A3

### FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

**Environmental Statement**

Air quality and odour - annual mean PM<sub>10</sub> impact for peak construction year  
Vol.27 Figure 4.5.8

1PL03-AQ-10815  
January 2013

Keyplan:



Key

— Limits of Land to be Acquired or Used

250m from Site

Sites of Importance for Nature Conservation (SINC)

Metropolitan Importance

Note:  
Aerial Imagery taken in 2010, before assessment.



## FOR INFORMATION

**Location**  
Bekesbourne Street  
London Borough of Tower Hamlets

**Document Information**  
Environmental Statement  
Terrestrial ecology - designated sites

Vol. 27 Figure 6.4.1  
1PL03-TE-40215  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames



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- Key**
- - - Limits of Land to be Acquired or Used
  - ▭ Survey Area
  - Built-Up Areas - Buildings
  - ▨ Cultivated/Disturbed Land - Introduced Shrub
  - ▩ Hard Standing
  - Scattered Trees

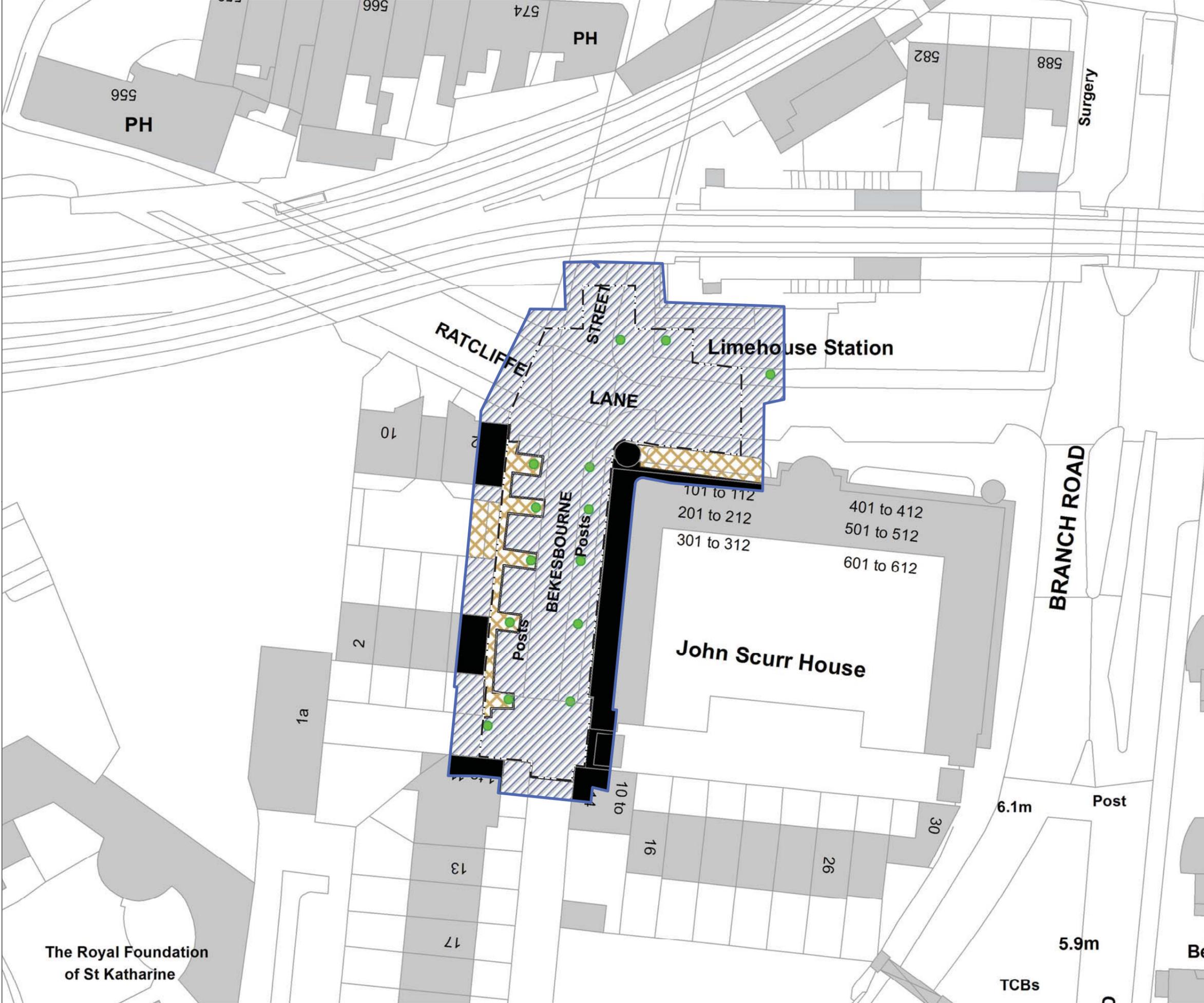


**FOR INFORMATION**

**Location**  
**Bekesbourne Street**  
 London Borough of Tower Hamlets

**Document Information**  
**Environmental Statement**  
 Terrestrial ecology – Phase 1 Habitat Survey

Vol. 27 Figure 6.4.2  
 1PL03-TE-40213  
 January 2013



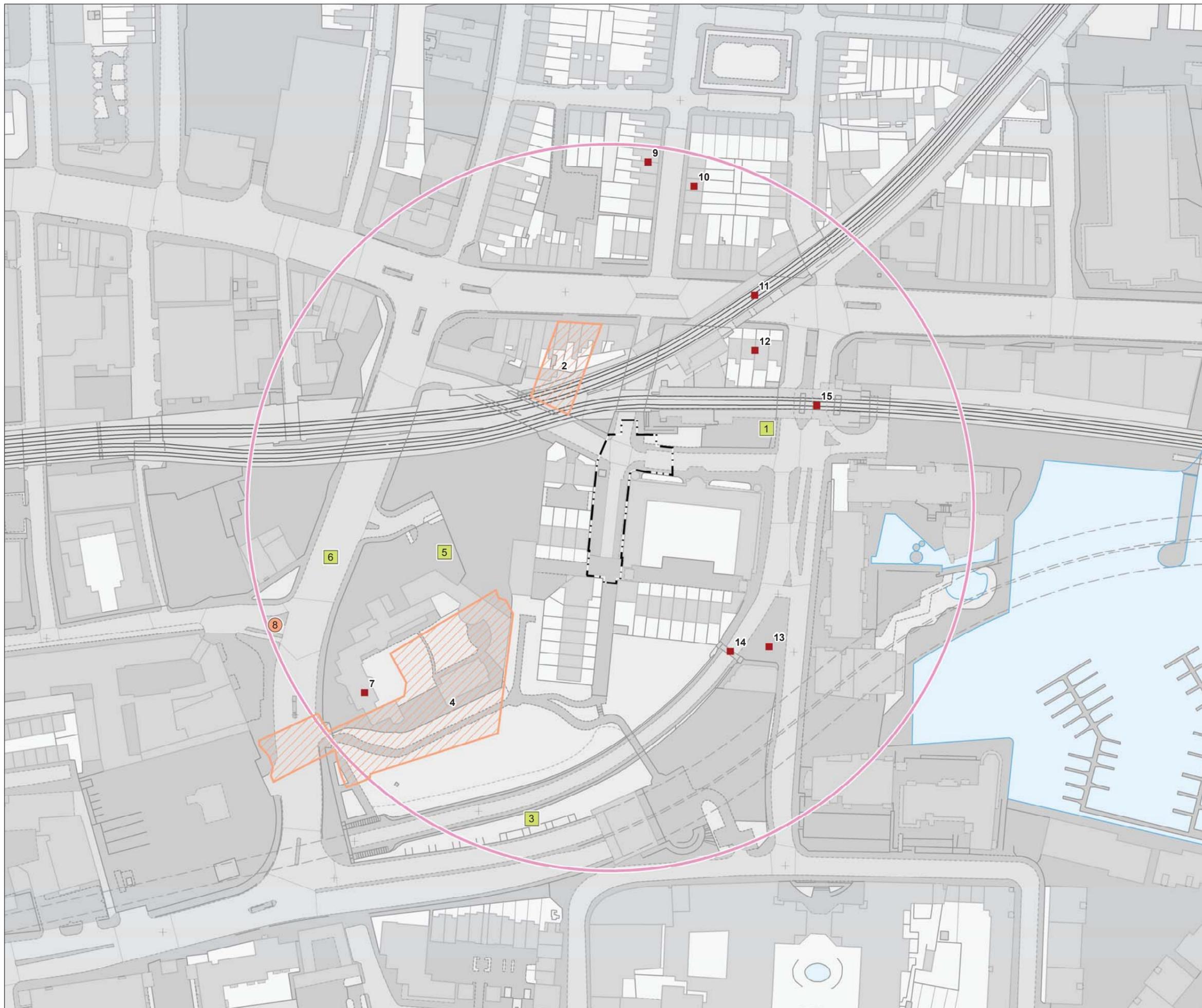
The Royal Foundation of St Katharine

Keyplan:



Key

- Limits of Land to be Acquired or Used
- Assessment Area
- Heritage Feature/Findspot
- Past Archaeological Investigation
- Statutorily Listed Building
- Heritage Feature



The reference numbers for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 27 Appendix E.1

Note: Archaeological Priority Zones/ Conservation Areas not shown



Scale 1 : 1,500 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

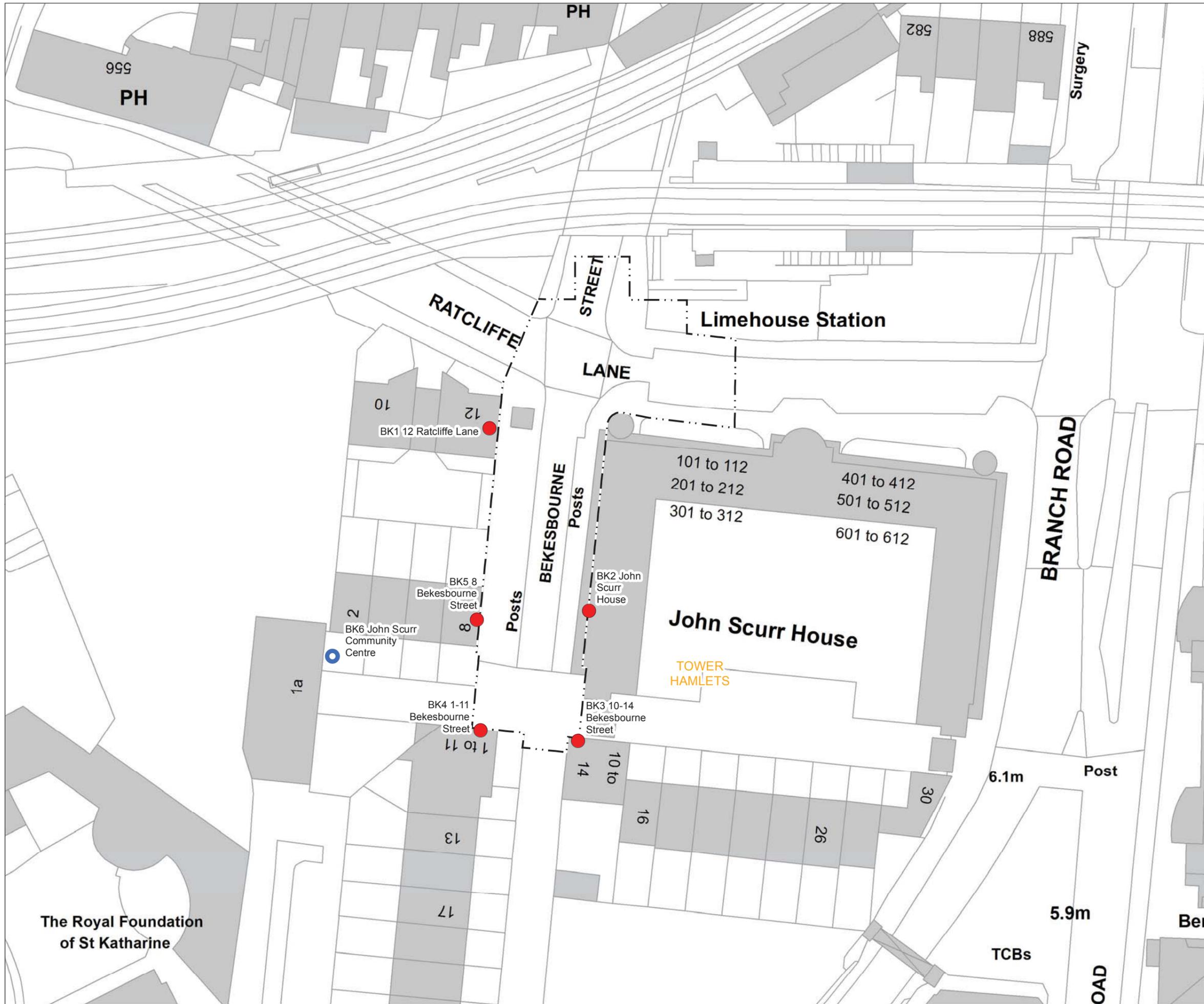
**Environmental Statement**

Historic environment -  
historic environment features map  
Vol.27 Figure 7.4.1

1PL03-HE-60094  
January 2013



- Key**
- Limits of Land to be Acquired or Used
  - Local Authority Boundary
- Representative Receptor Locations:**
- Residential
  - Non-Residential



**Note:**  
The receptors are selected on the basis that they are representative of sensitive land uses closest to the site.



Scale 1 : 500 at A3

## FOR INFORMATION

**Location**  
Bokesbourne Street  
London Borough of Tower Hamlets

**Document Information**  
**Environmental Statement**  
Noise and vibration - receptor locations

Vol.27 Figure 9.4.1  
1PL03-NV-40136  
January 2013



Keyplan:



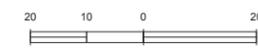
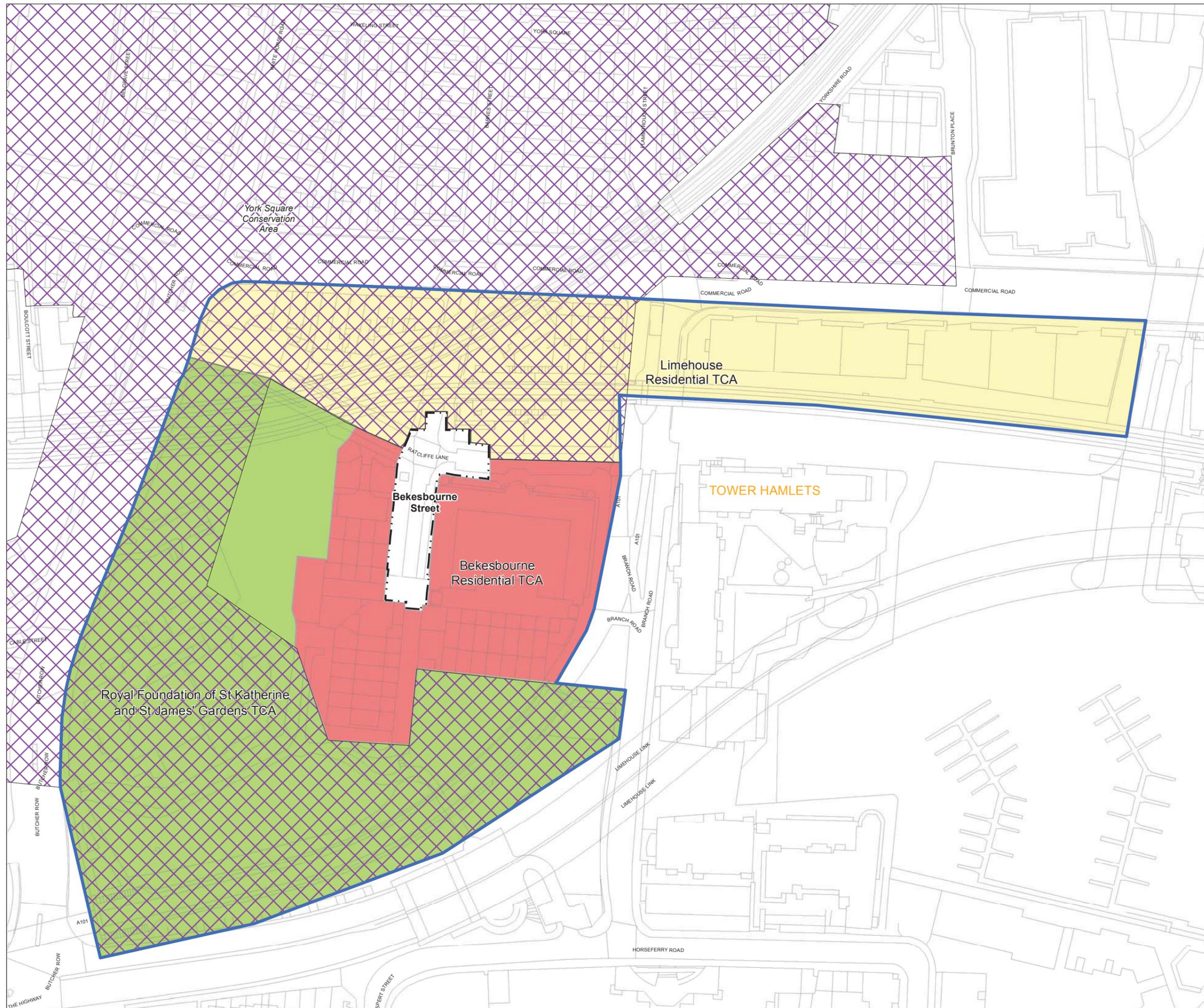
Key:

--- Limits of Land  
 - - - to be Acquired or Used

Extents of construction phase townscape assessment area

Conservation areas

The colour fills shown on the plan are used to differentiate between townscape character areas



Scale 1 : 1,250 at A3

## FOR INFORMATION

Location

**Bokesbourne Street**  
 London Borough of Tower Hamlets

Document Information

**Environmental Statement**

Townscape and visual  
 Townscape character areas  
 Vol. 27 Figure 11.4.1

1PL03-TS-40528

January 2013

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Keyplan:



Key:

The zone of theoretical visibility (ZTV) is a computer generated model which indicates the theoretical visibility of the construction works (including cranes) and operational structures. As described in Volume 2 the ZTV is a starting point for defining the assessment area and for informing the assessment of likely significant effects. Theoretical visibility does not necessarily mean a location would be subject to adverse effects.

- Limits of Land to be Acquired or Used
- Visual assessment points
- Construction phase ZTV
- River Thames and tidal tributaries



Scale 1 : 1,250 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough of Tower Hamlets

Document Information

**Environmental Statement**

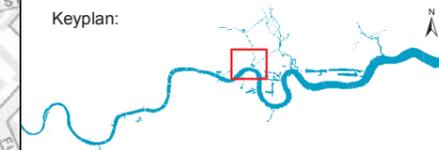
Townscape and visual  
Viewpoints  
Vol. 27 Figure 11.4.2

1PL03-TS-40529  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames



Keyplan:



Key

- \* Site access
- TFL road network
- Primary construction route
- Limits of Land to be Acquired or Used
- Local authority boundary



Scale 1 : 7,500 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough Of Tower Hamlets

Document Information

**Environmental Statement**

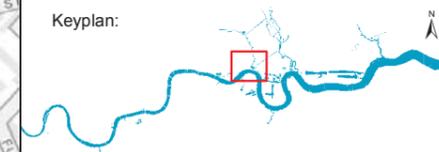
Transport - construction traffic routes

Vol.27 Figure 12.2.1

1PL03-TT-50450

January 2013

Keyplan:



Key

-  TFL road network
-  Limits of Land to be Acquired or Used
-  Local authority boundary



110 55 0 110 m

Scale 1 : 7,500 at A3

## FOR INFORMATION

Location

**Bekesbourne Street**  
London Borough Of Tower Hamlets

Document Information

**Environmental Statement**  
Transport - site location plan

Vol.27 Figure 12.4.1

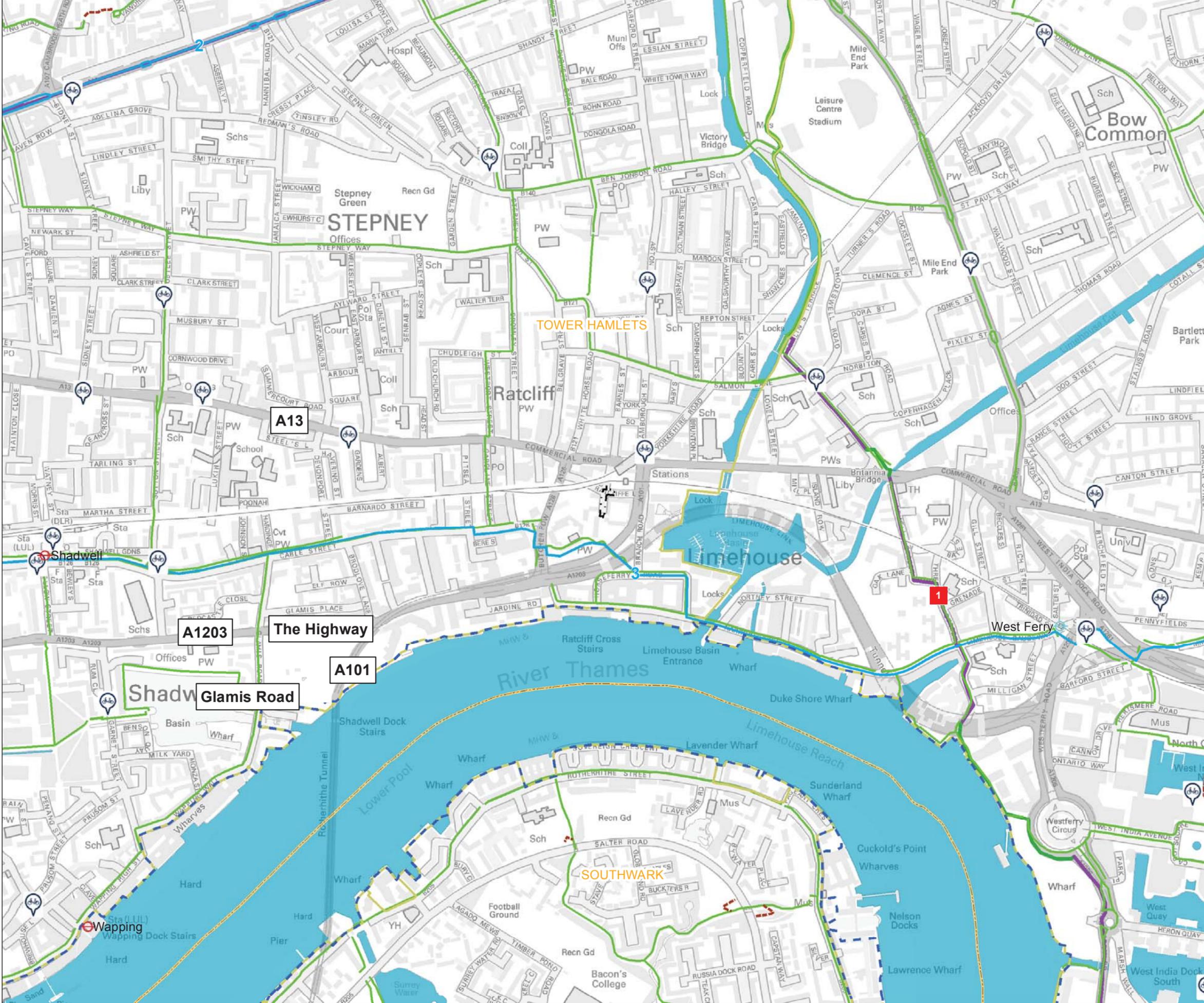
1PL03-TT-50458

January 2013

**Thames Tideway Tunnel**  
Creating a cleaner, healthier River Thames



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- Key**
- DLR stations with cycle parking
  - Underground stations with cycle parking
  - Barclays cycle hire docking stations
  - Cycle superhighway (open)
  - London strategic walk network
  - Pedestrian routes
  - Thames path
  - London cycle routes
- National cycle network**
- Route Type**
- Open Traffic Free
  - Open on-road
  - Limits of Land to be Acquired or Used
  - Local authority boundary

110 55 0 110 m  
Scale 1 : 7,500 at A3

## FOR INFORMATION

**Location**  
**Bekesbourne Street**  
 London Borough Of Tower Hamlets

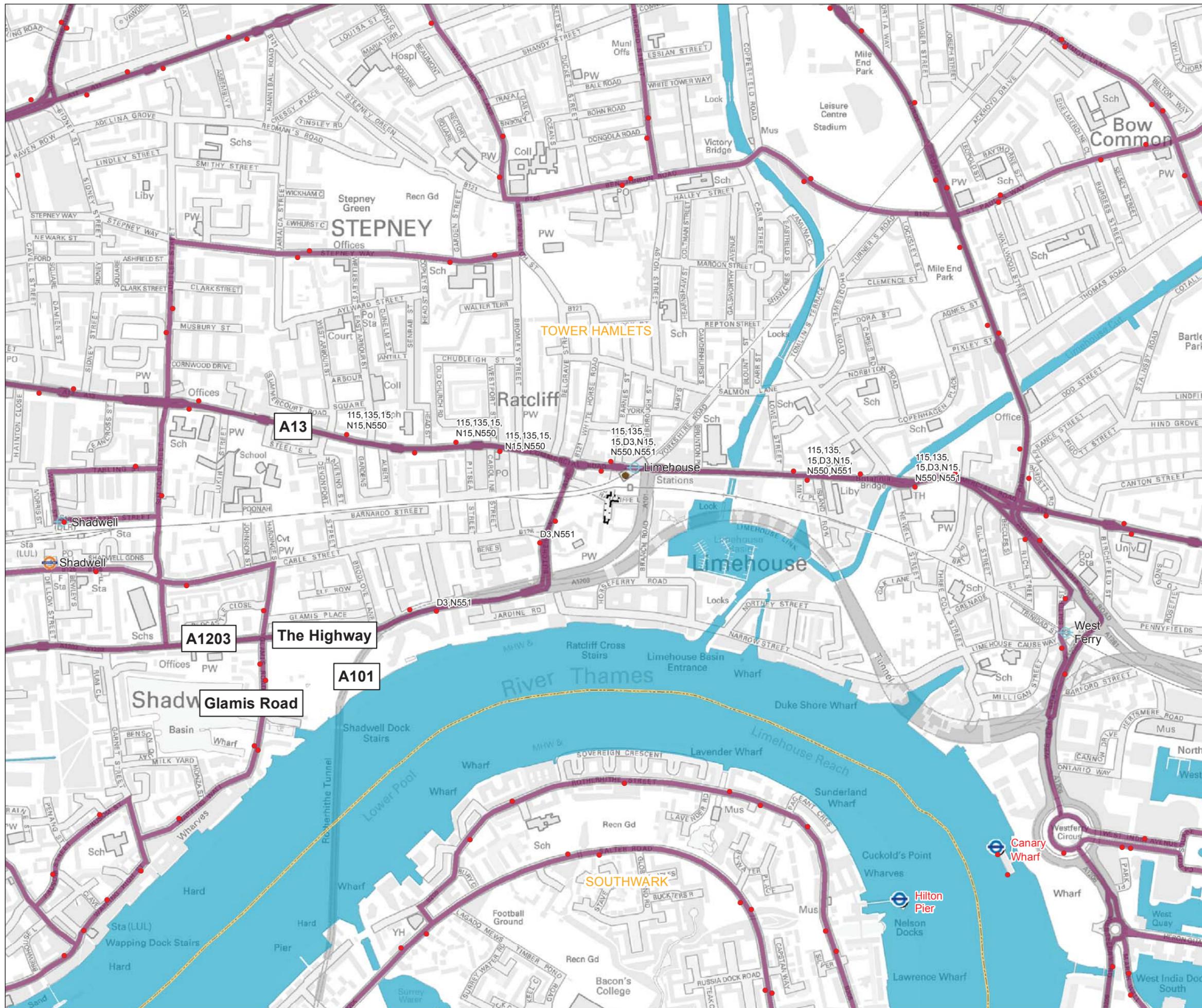
**Document Information**  
**Environmental Statement**  
 Transport - pedestrian and cycle network

Vol.27 Figure 12.4.2  
 1PL03-TT-50466  
 January 2013





- Key**
- TFL bus stops
  - National rail stations
  - ⊖ Docklands light railway stations
  - ⊖ London overground stations
  - ⊖ Pier locations
  - TfL bus routes
  - Limits of Land to be Acquired or Used
  - Local authority boundary



110 55 0 110 m  
Scale 1 : 7,500 at A3

## FOR INFORMATION

**Location**  
**Bekesbourne Street**  
 London Borough Of Tower Hamlets

**Document Information**  
**Environmental Statement**  
 Transport - public transport

Vol.27 Figure 12.4.3  
 1PL03-TT-50474  
 January 2013





**Key**

- City Car
- City Car (Coming Soon)
- Hertz on Demand
- Zip Car
- Coach Parking
- Limits of Land to be Acquired or Used
- Local authority boundary



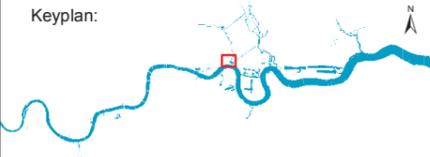
## FOR INFORMATION

**Location**  
**Bekesbourne Street**  
 London Borough of Tower Hamlets

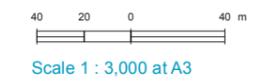
**Document Information**  
**Environmental Statement**  
 Transport - parking

Vol.27 Figure 12.4.4  
 1PL03-TT-50482  
 January 2013





- Key**
- Automatic traffic count surveys
  - Pedestrian and cycle surveys
  - Junction surveys
  - Parking surveys
  - Limits of Land to be Acquired or Used
  - Local authority boundary



**FOR INFORMATION**

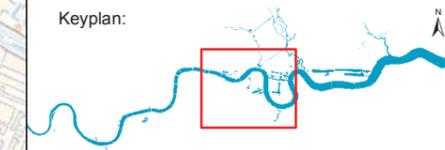
**Location**  
**Bekesbourne Street**  
 London Borough Of Tower Hamlets

**Document Information**  
**Environmental Statement**  
 Transport - survey locations

Vol.27 Figure 12.4.5  
 1PL03-TT-50490  
 January 2013

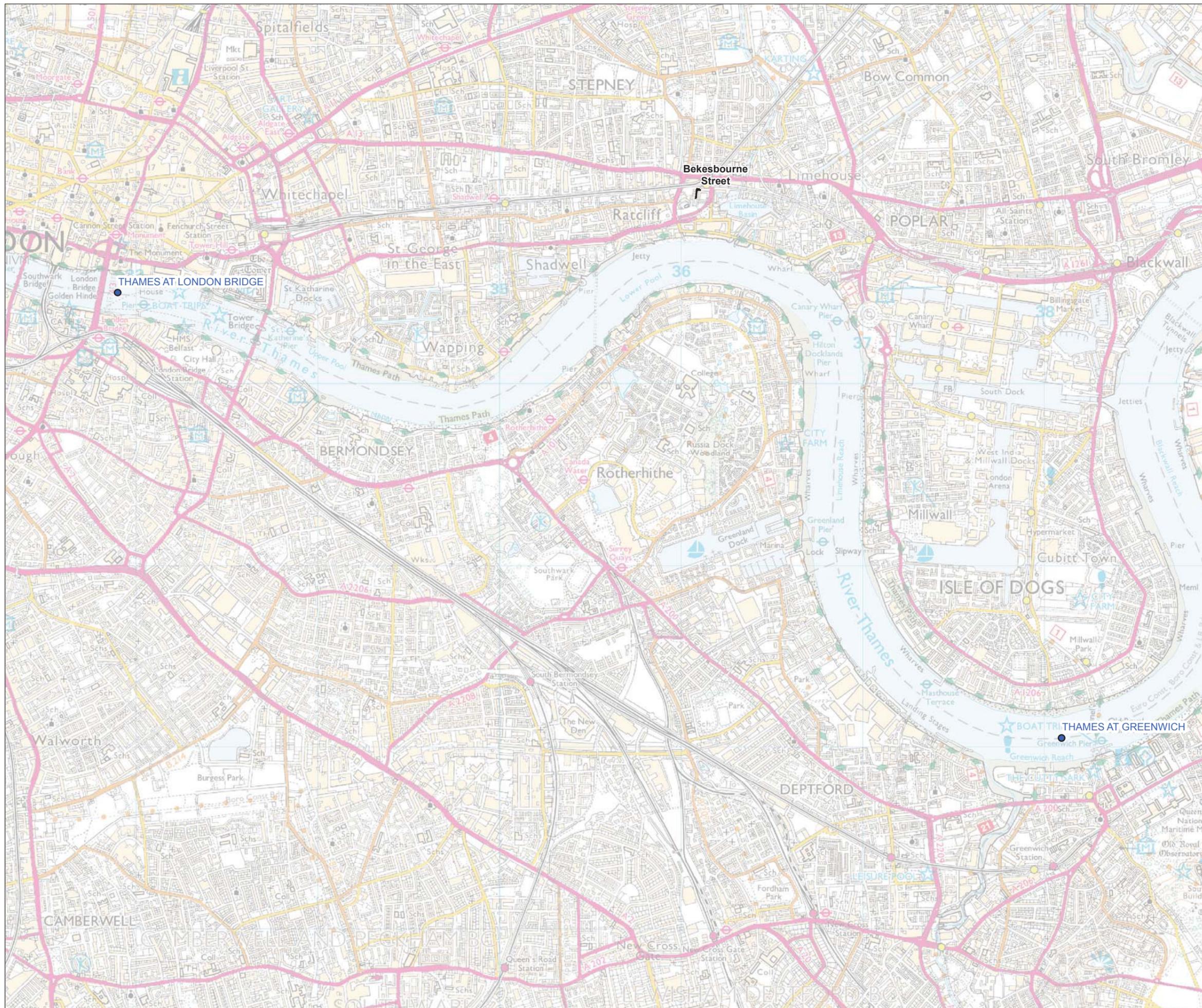


Keyplan:



Key

- Limits of Land to be Acquired or Used
- Spot Sample Locations



Scale 1 : 20,000 at A3

## FOR INFORMATION

[Location](#)

**Bekesbourne Street**  
London Borough of Tower Hamlets

[Document Information](#)

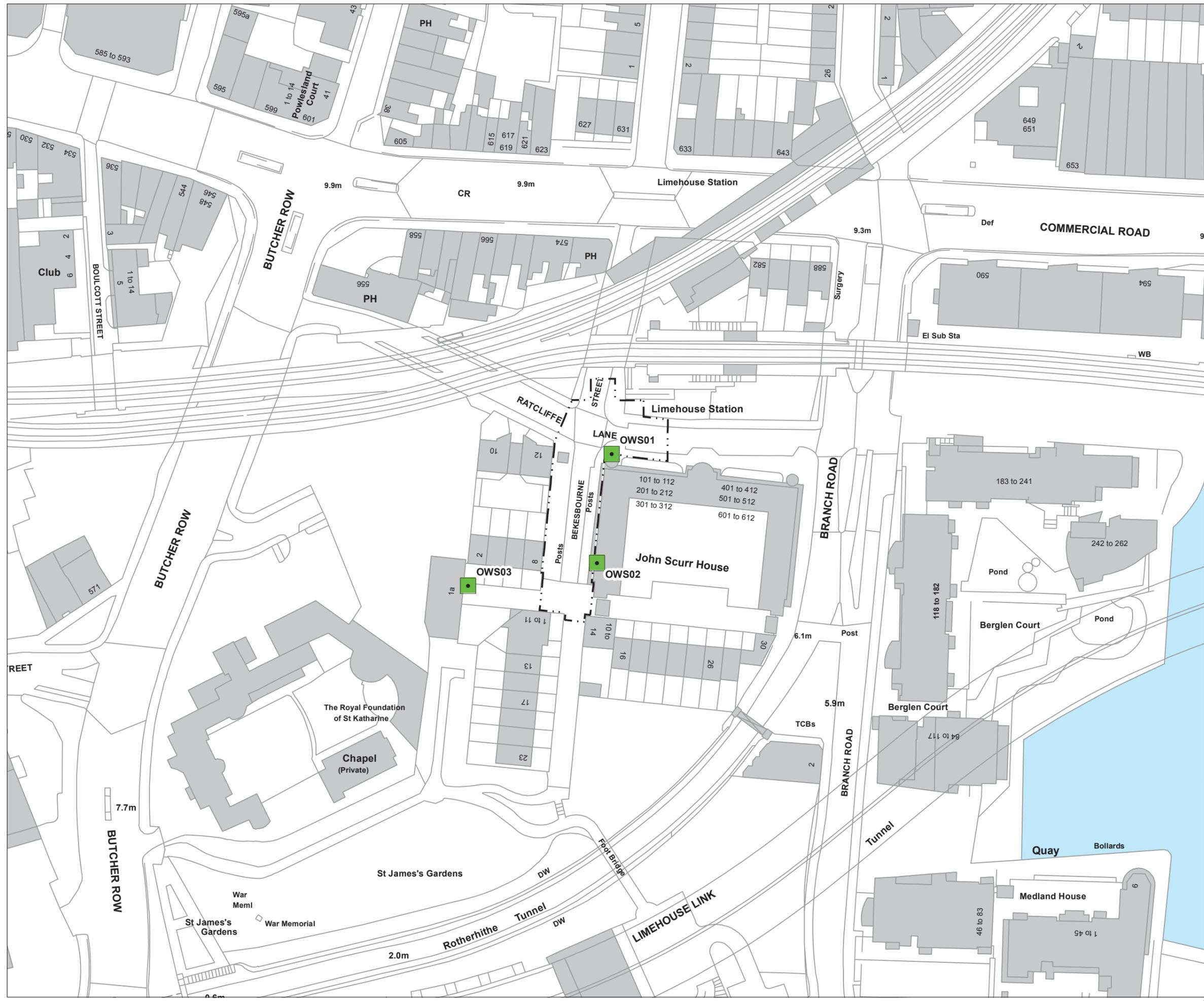
**Environmental Statement**

Water resources - surface water - water quality monitoring points  
Vol.27 Figure 14.4.1

1PL03-WR-21019  
January 2013



- Key**
- Limits of Land to be Acquired or Used
  - Attended



## FOR INFORMATION

**Location**  
**Bekesbourne Street**  
 London Borough of Tower Hamlets

**Document Information**  
**Environmental Statement**  
 Noise and vibration - noise survey locations

Vol.26 Figure G.1  
 1PL03-NV-40137  
 January 2013



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### **Thames Water Utilities Limited**

Clearwater Court, Vastern Road, Reading RG1 8DB

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