

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: **2.28**

Beckton Sewage Treatment Works

APFP Regulations 2009: Regulation **5(2)(k), (o)**

Hard copy available in
Box **62** Folder **C**
January 2013

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

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Application for Development Consent: Book of Plans

List of Volumes

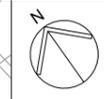
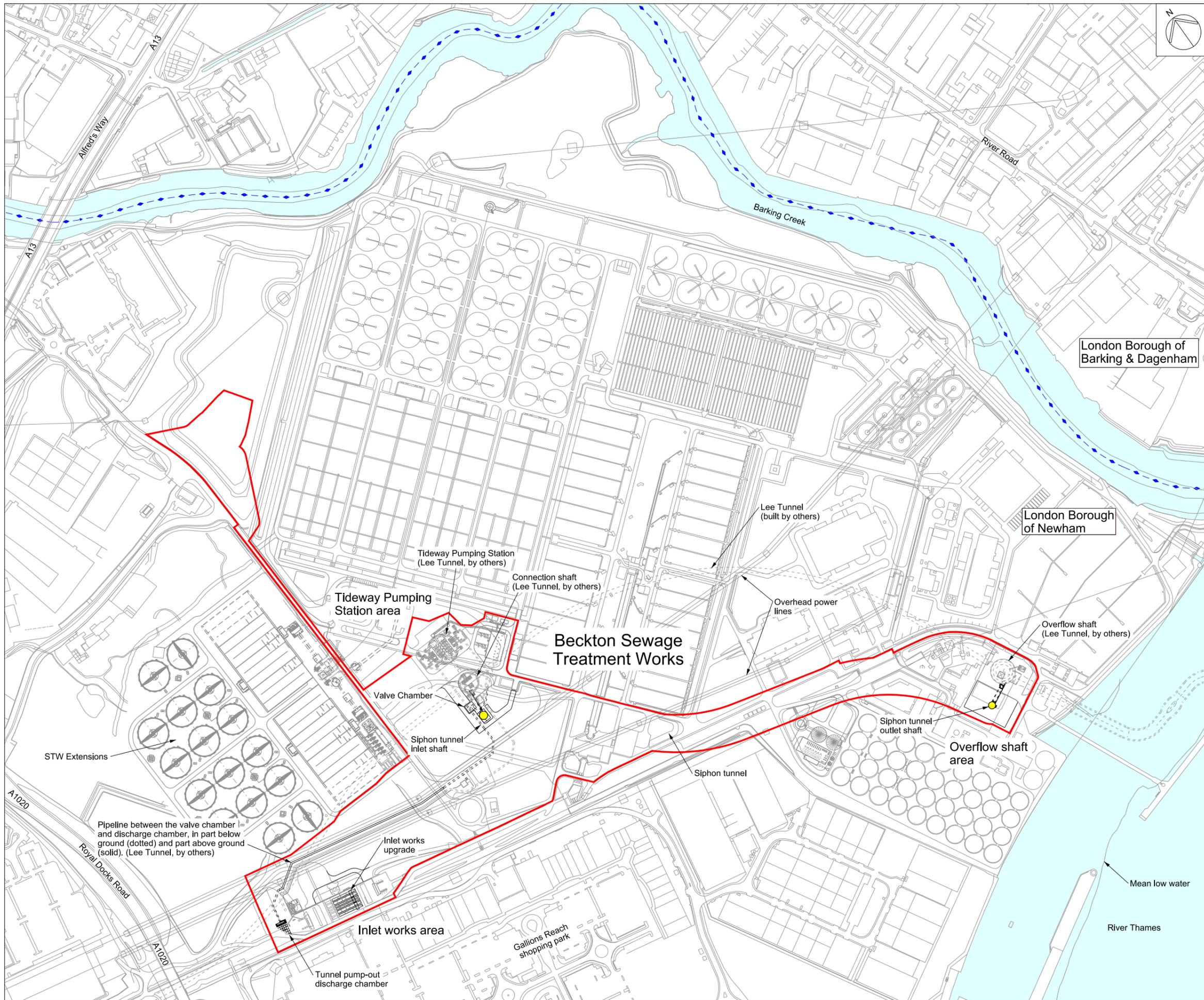
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29		Project-wide drawings	Ventilation columns	

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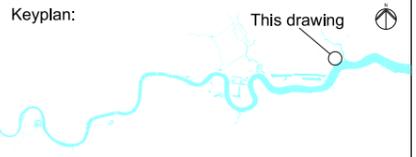
Volume 6

Drawing Title	Sheet No.	Drawing number
Section 28: Beckton Sewage Treatment Works		
Location plan		DCO-PP-27X-BESTW-280001
Access plan		DCO-PP-27X-BESTW-280002
Site works parameter plan		DCO-PP-27X-BESTW-280003
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Permanent highway layout*	2 of 2	DCO-PP-27X-BESTW-280016

* Schedules of associated highway works are located in the *Transport Assessment*



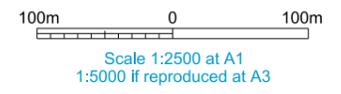
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Local authority boundary
 - Order limits
 - Tunnel
 - Shaft

- Notes:**
1. The alignment of the tunnels are illustrative within limits of deviation.
 2. The Lee Tunnel and STW extensions are currently under construction and will be 'existing' when construction of the Thames Tunnel project commences.



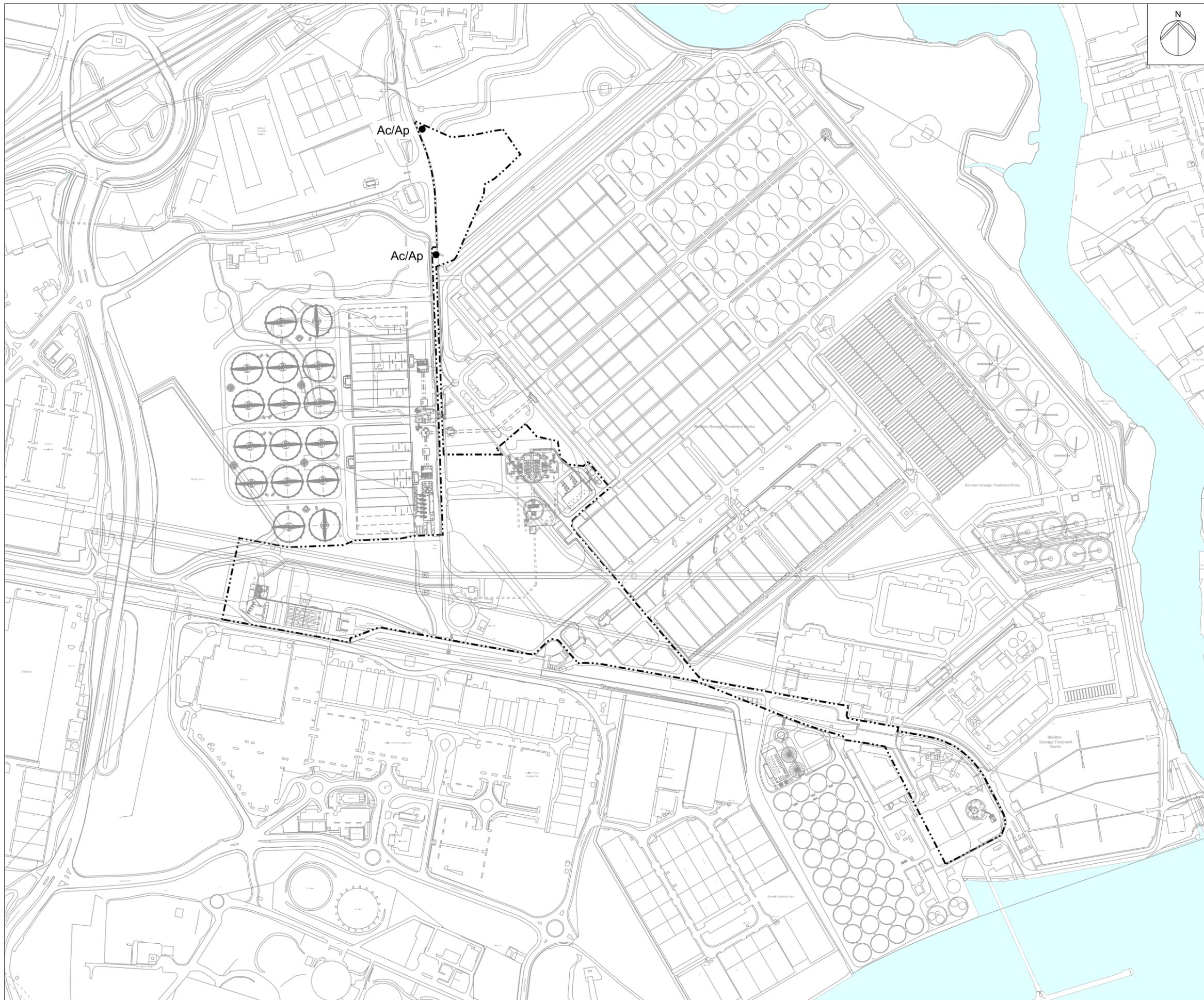
FOR INFORMATION

Location
Beckton STW
 London Borough of Newham

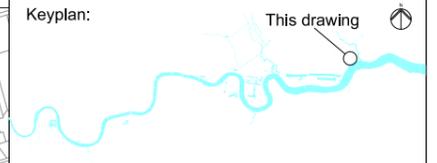
Document Information
Application for Development Consent
 Location plan

Book of plans - section 28
 DCO-PP-27X-BESTW-280001
 January 2013





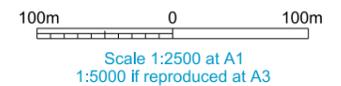
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- 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. The Lee Tunnel and STW extensions are currently under construction and will be 'existing' when construction of the Thames Tunnel project commences.



FOR APPROVAL

Location
Beckton STW
London Borough of Newham

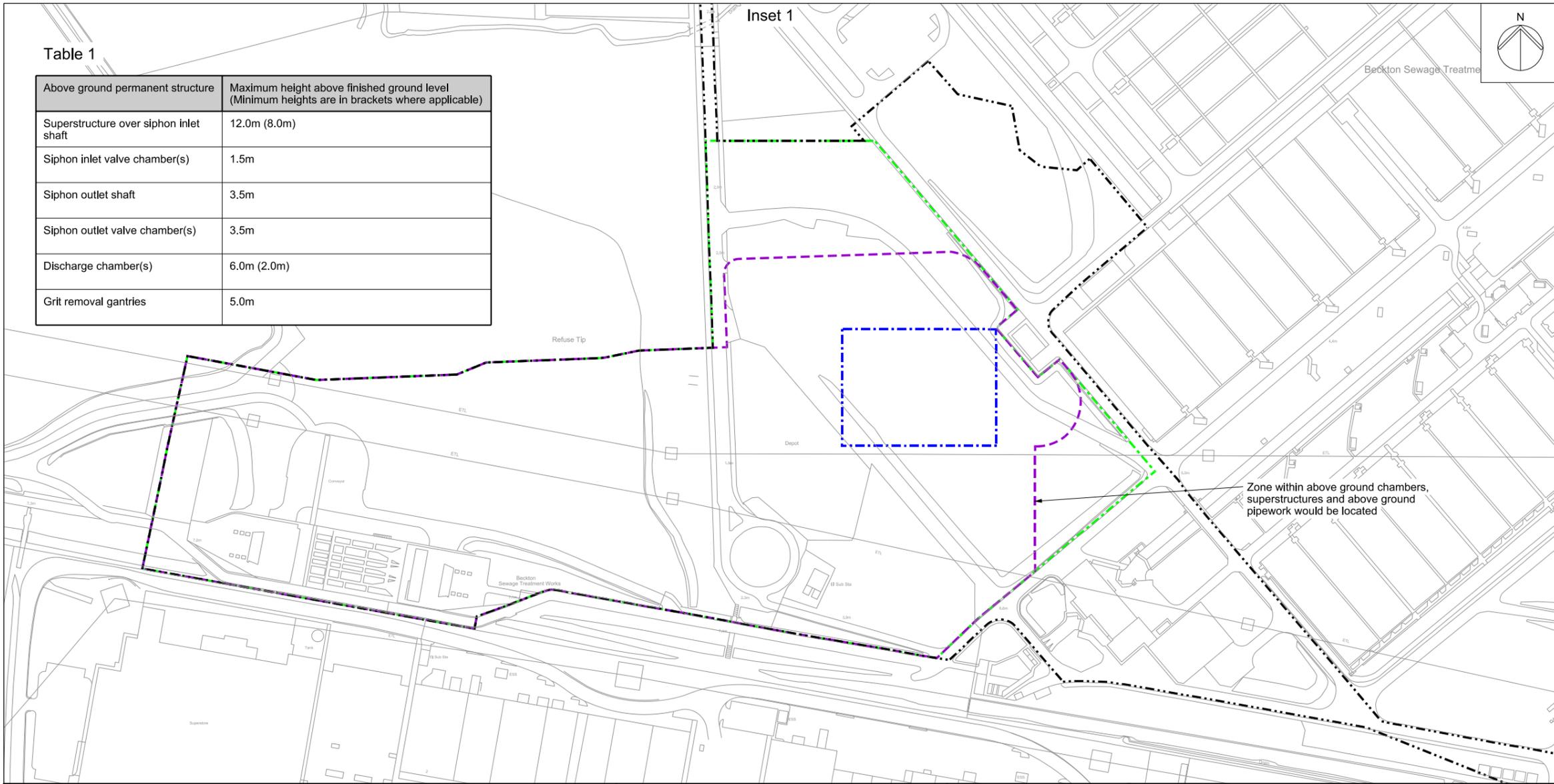
Document Information
Application for Development Consent
Access plan

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DCO-PP-27X-BESTW-280002
January 2013



Table 1

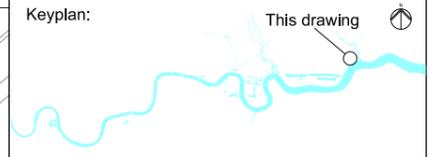
Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Superstructure over siphon inlet shaft	12.0m (8.0m)
Siphon inlet valve chamber(s)	1.5m
Siphon outlet shaft	3.5m
Siphon outlet valve chamber(s)	3.5m
Discharge chamber(s)	6.0m (2.0m)
Grit removal gantries	5.0m



Zone within above ground chambers, superstructures and above ground pipework would be located

Zone within which the siphon outlet valve chamber and ventilation duct would be located.

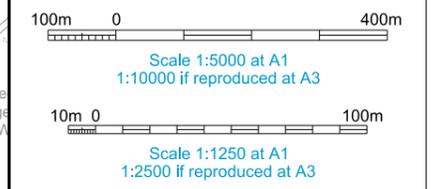
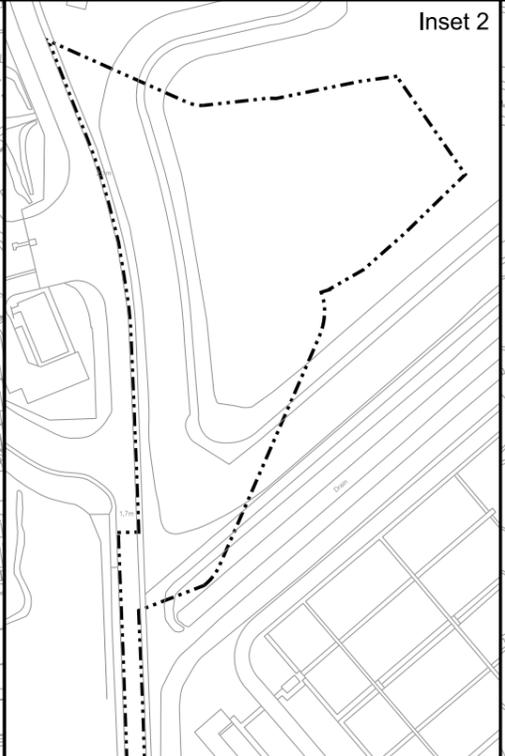
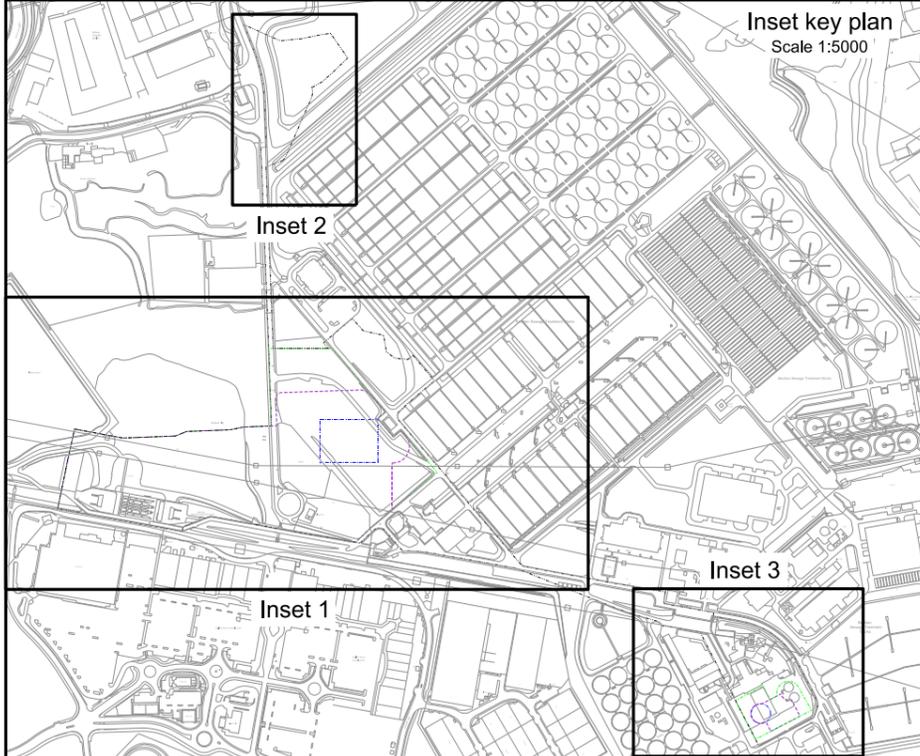
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located (those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

- Notes:**
1. All dimensions and levels are approximate.
 2. The Site Works Parameter Key Plan identifies each zone independently.
 3. 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
 Beckton STW
 London Borough of Newham

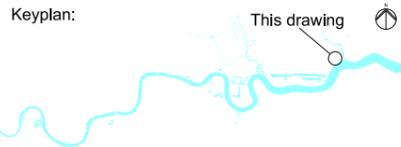
Document Information
 Application for Development Consent
 Site works parameter plan

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 January 2013





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Keyplan:  This drawing

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Key:

-  Limits of land to be acquired or used (LLAU)
-  Zone within which all permanent site structures would be located
-  Zone within which the shaft would be located
-  Zone within which permanent above ground structures would be located

Notes:

1. All dimensions and levels are approximate.
2. The Site Works Parameter Key Plan identifies each zone independently. The zones are identical to those shown on the Site works parameter plan
3. 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.

200m 0 200m
Scale 1:4000 at A1
1:8000 if reproduced at A3

FOR INFORMATION

Location
Beckton STW
London Borough of Newham

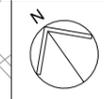
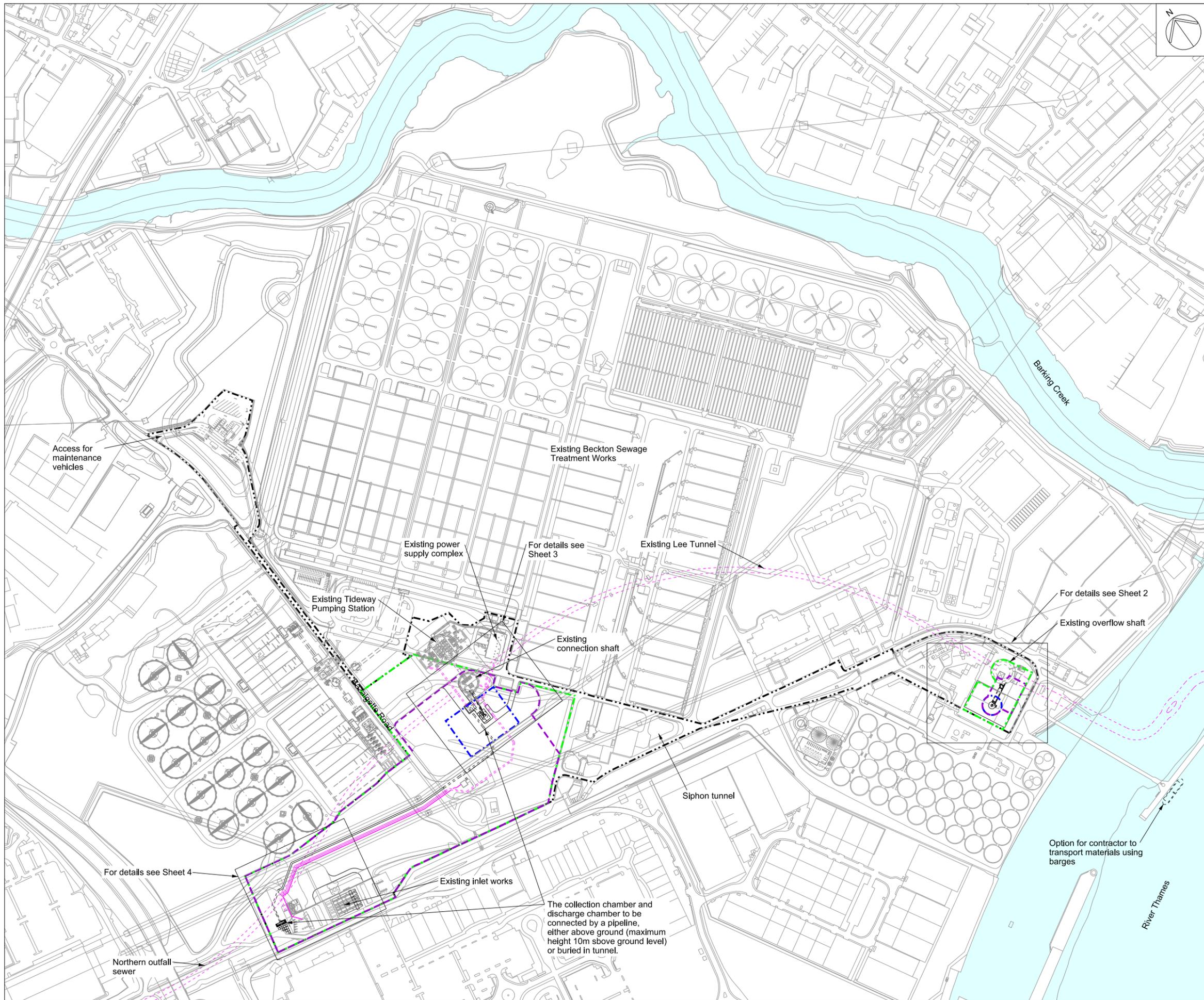
Document Information
Application for Development Consent
Site works parameter key plan

Book of plans - section 28
DCO-PP-27X-BESTW-280004
January 2013

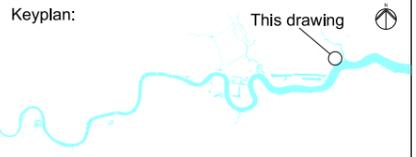
 

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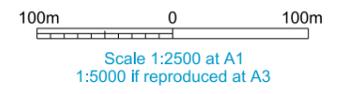
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - Proposed access cover
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located

- Notes:**
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 topographical survey base, both of which have been used in the preparation of this drawing.
 3. This drawing shows permanent site structures only. Landscaping hard works and soft works are shown on the Proposed landscape plan and/or Proposed site features plan.
 4. The Lee Tunnel and STW extensions are currently under construction and will be 'existing' when construction of the project commences.
 5. The alignment of the siphon tunnel is illustrative. Its limits of deviation are not shown on this drawing.

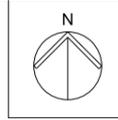
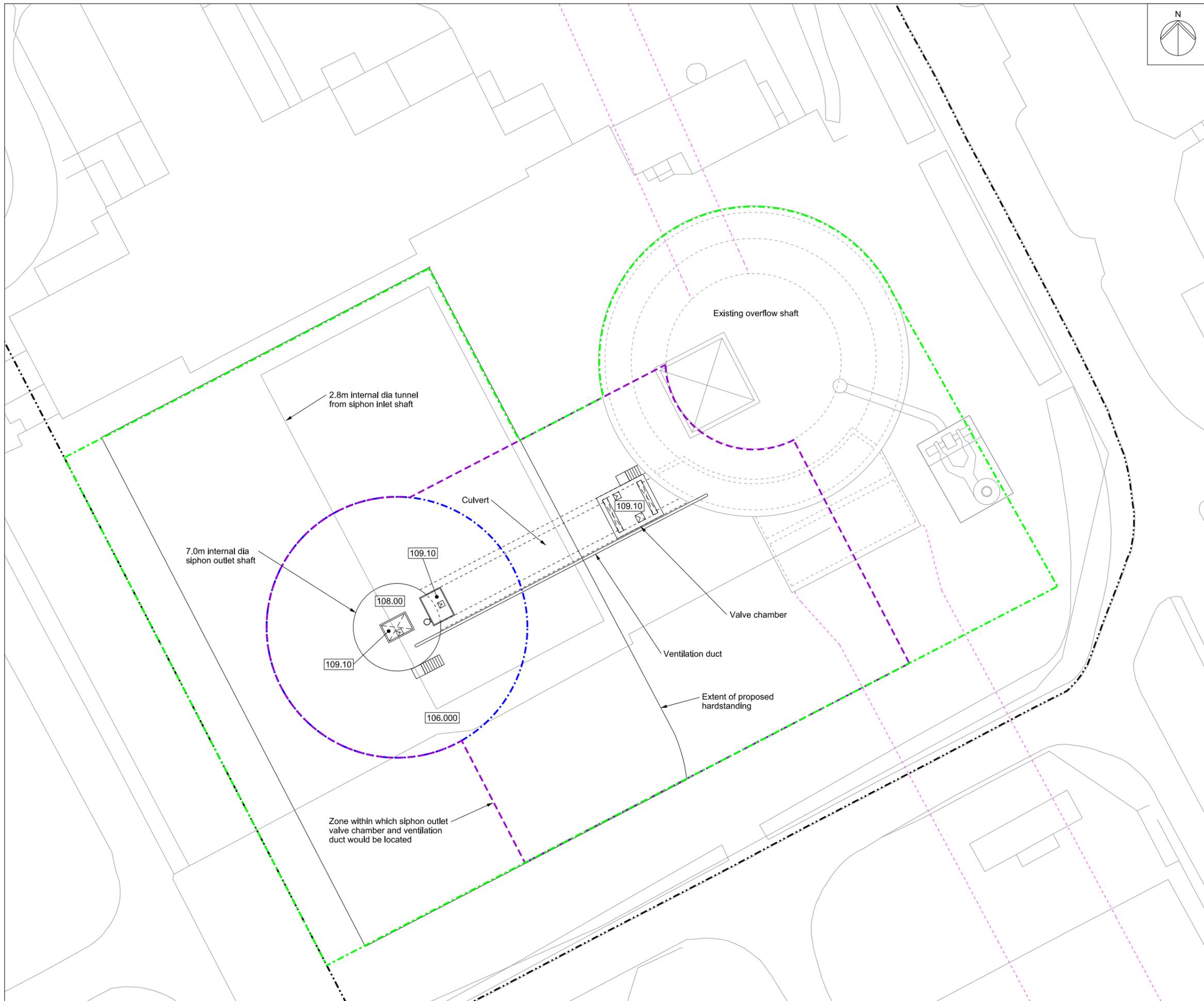


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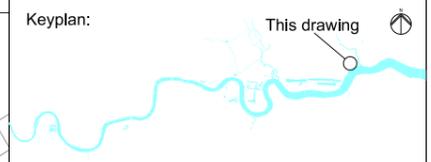
Location
Beckton STW
 London Borough of Newham

Document Information
Application for Development Consent
 Permanent works layout
 Sheet 1 of 4
 Book of plans - section 28
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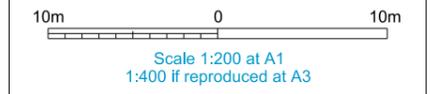
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - Proposed access cover
 - Proposed level (shown in metres above tunnel datum)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located

- Notes:**
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 4. The Lee Tunnel and STW extensions are currently under construction and will be 'existing' when construction of the project commences.

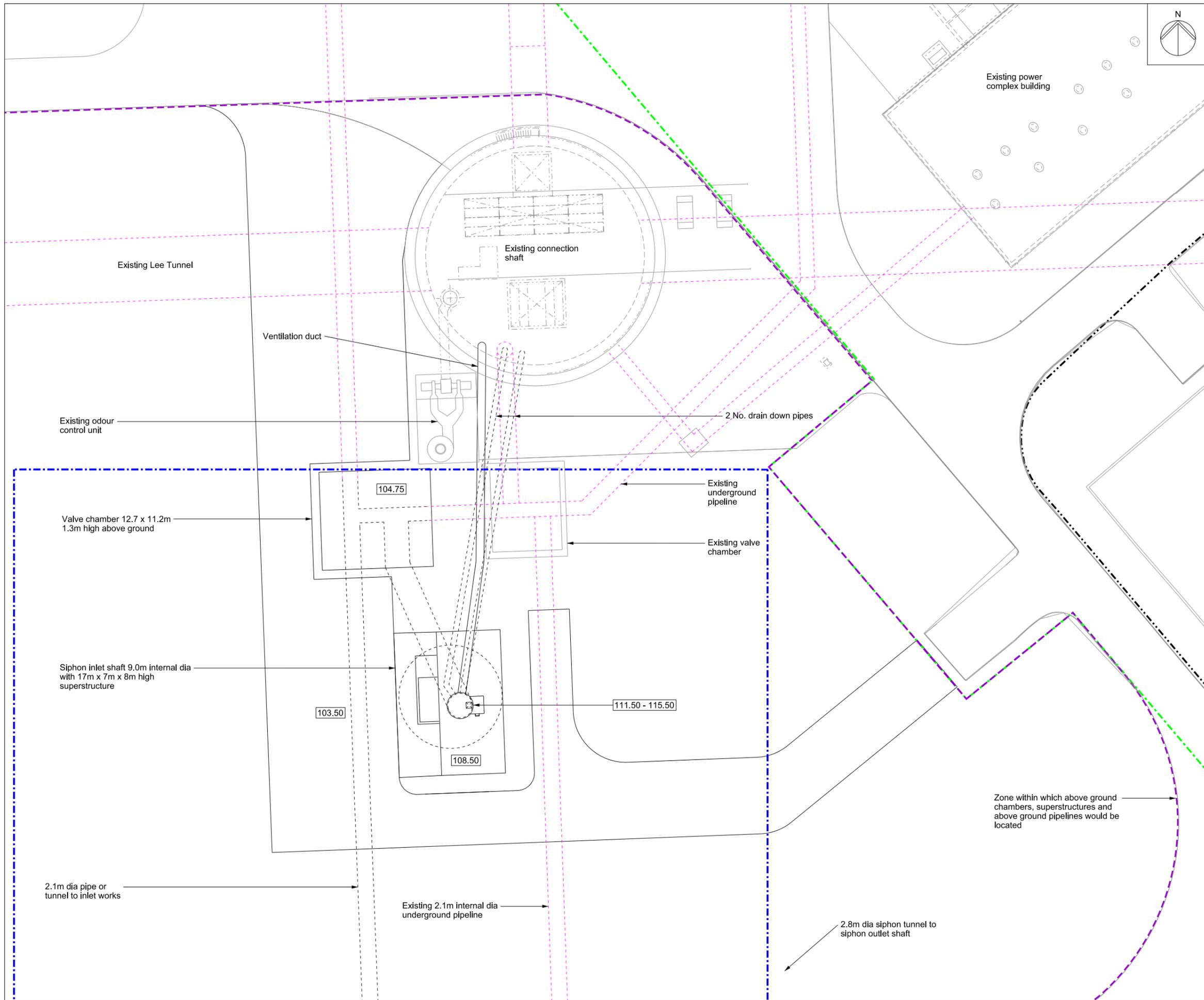


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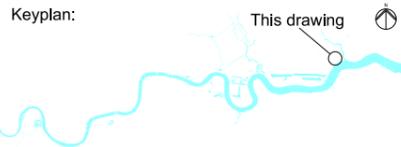
Location
Beckton STW
 London Borough of Newham

Document Information
Application for Development Consent
 Permanent works layout
 Sheet 2 of 4
 Book of plans - section 28
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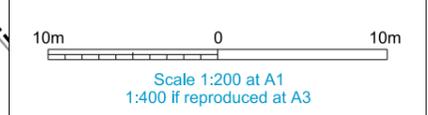
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Keyplan: 

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- Key:**
-  Limits of land to be acquired or used (LLAU)
 -  Existing sewers
 -  Proposed access cover
 -  Proposed level (shown in metres above tunnel datum)
 -  Zone within which all permanent site structures would be located
 -  Zone within which the shaft would be located
 -  Zone within which permanent above ground structures would be located

- Notes:**
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 topographical survey base, both of which have been used in the preparation of this drawing.
 3. This drawing shows permanent site structures only. Landscaping hard works and soft works are shown on the Proposed landscape plan and/or Proposed site features plan.
 4. The Lee Tunnel and STW extensions are currently under construction and will be 'existing' when construction of the project commences.



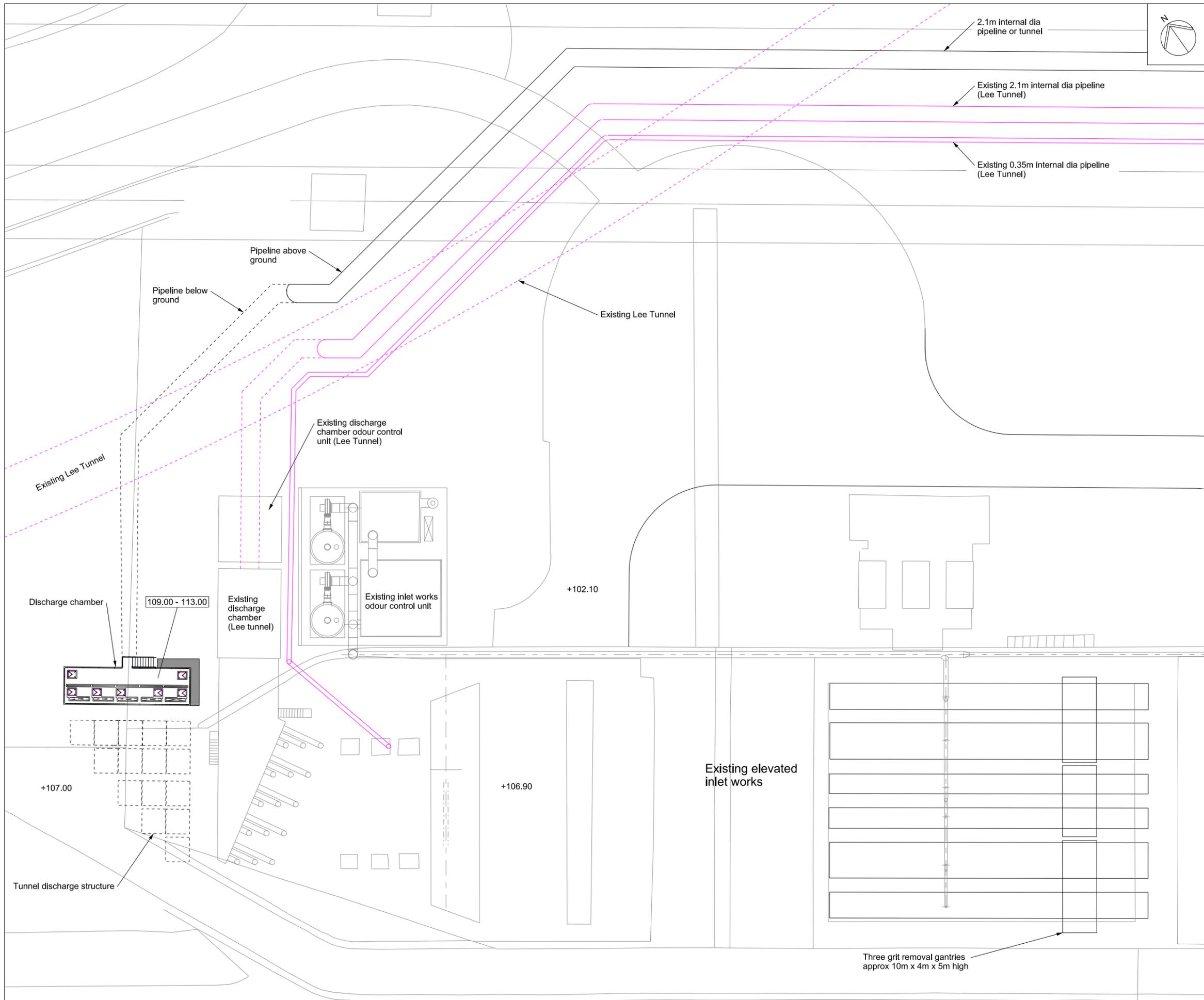
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Location
Beckton STW
 London Borough of Newham

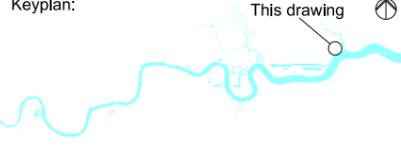
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Application for Development Consent
 Permanent works layout
 Sheet 3 of 4
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Keyplan: 

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Key:

-  Existing sewers
-  Proposed access cover
- + 104.10m Existing Level (shown in metres above tunnel datum)
-  Proposed level (shown in metres above tunnel datum)

Notes:

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 topographical survey base, both of which have been used in the preparation of this drawing.
3. This drawing shows permanent site structures only. Landscaping hard works and soft works are shown on the Proposed landscape plan and/or Proposed site features plan.
4. The Lee Tunnel and STW extensions are currently under construction and will be 'existing' when construction of the project commences.
5. Air from proposed discharge chamber will be treated by existing (Lee Tunnel) odour control unit.

10m 0 10m
Scale 1:200 at A1
1:400 if reproduced at A3

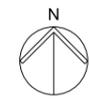
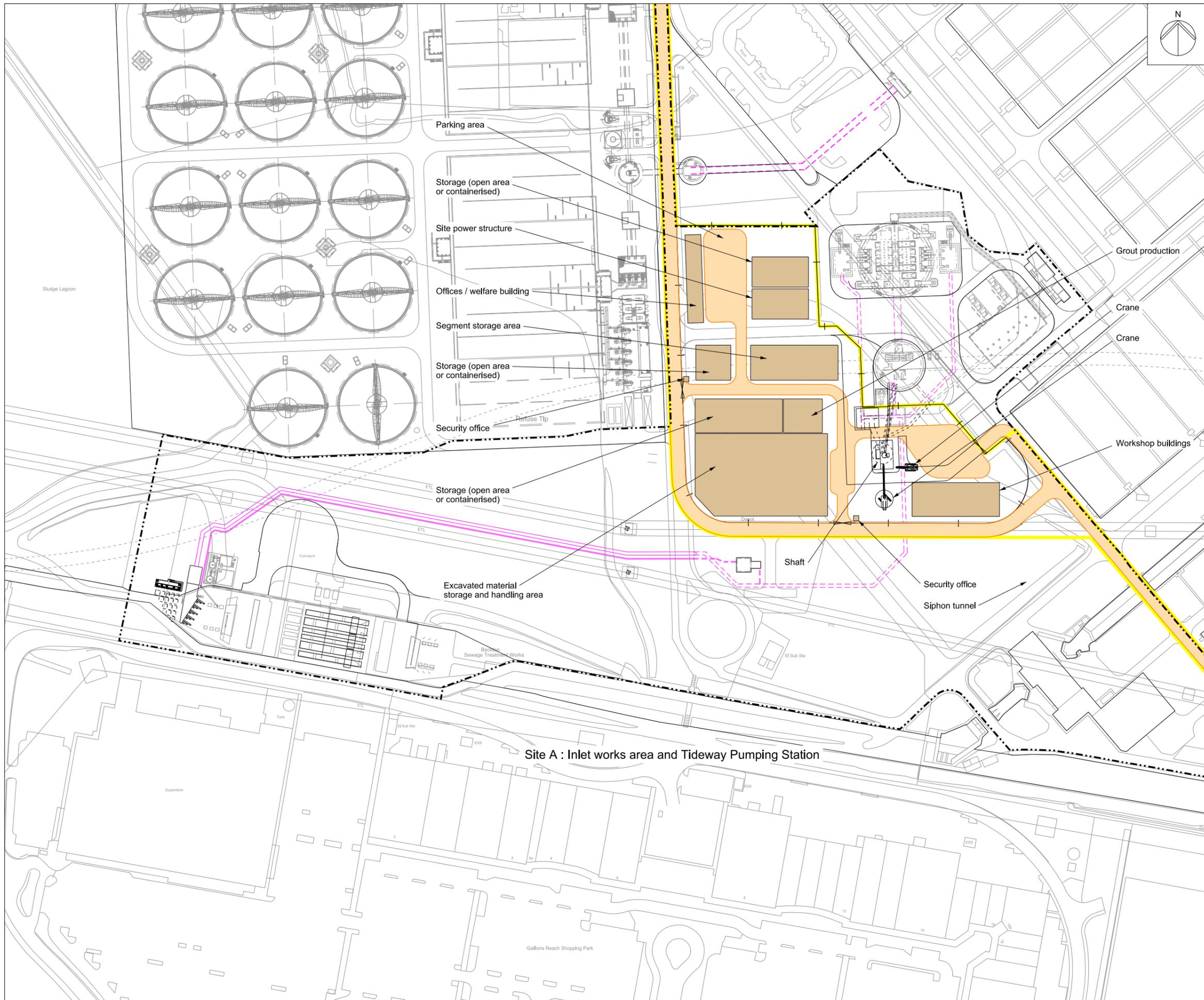
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Location
Beckton STW
London Borough of Newham

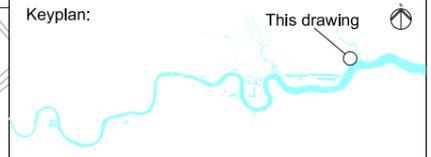
Document Information
Application for Development Consent
Permanent works layout
Sheet 4 of 4
Book of plans - section 28
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January 2013

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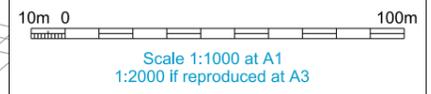
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Site access
 - Access / haul route
 - - - Existing sewers

- 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.



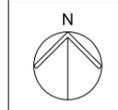
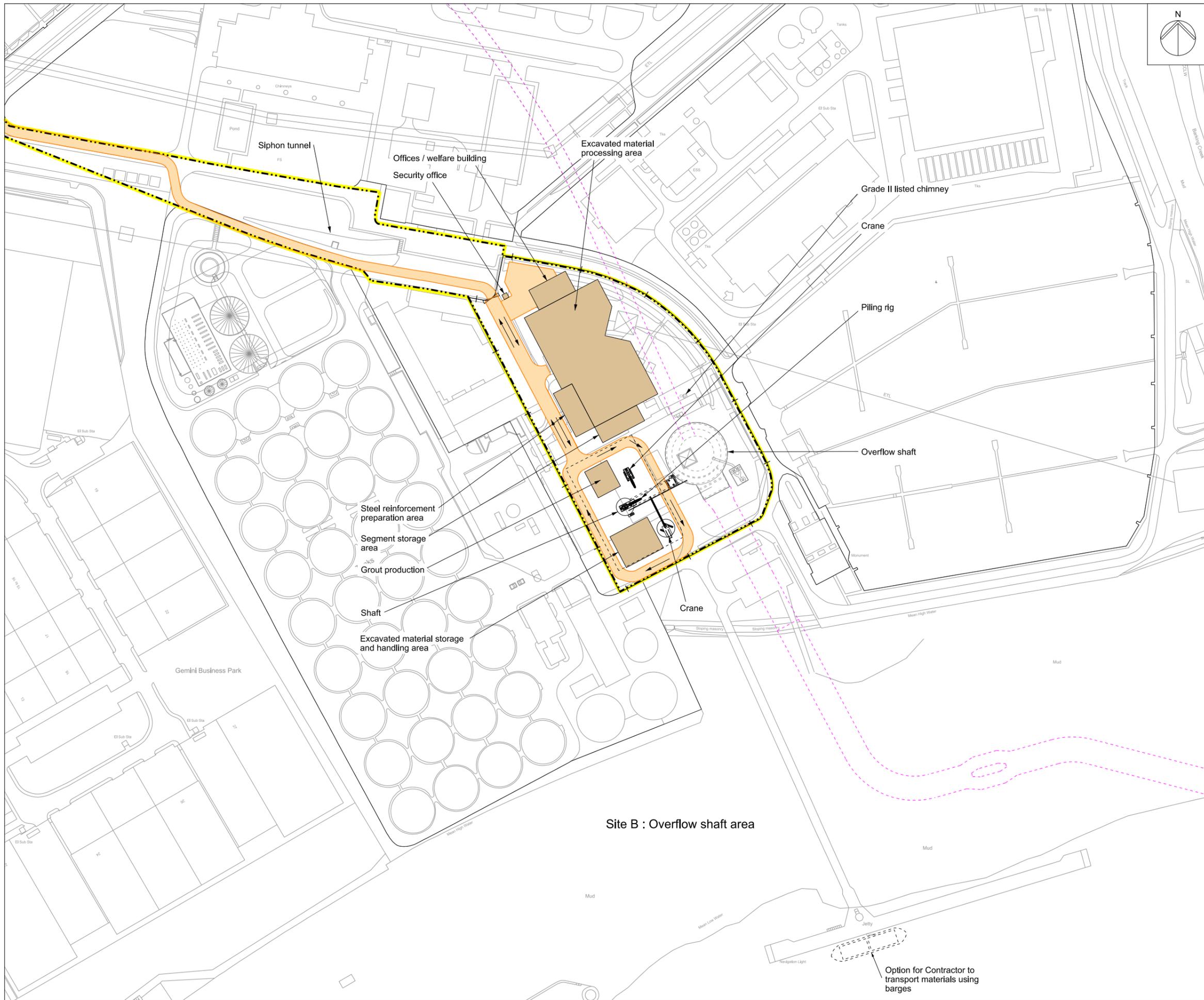
Site A : Inlet works area and Tideway Pumping Station

ILLUSTRATIVE

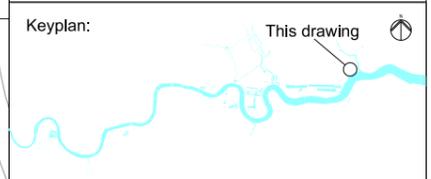
Location
Beckton STW
 London Borough of Newham

Document Information
Application for Development Consent
 Construction phases - phase 1 - site A
 Setup, shaft construction & siphon tunnelling
 Book of plans - section 28
 DCO-PP-27X-BESTW-280009
 January 2013





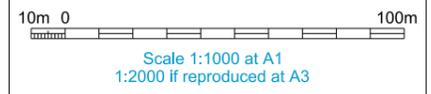
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Site access
 - Access / haul route
 - Existing sewers

- 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.

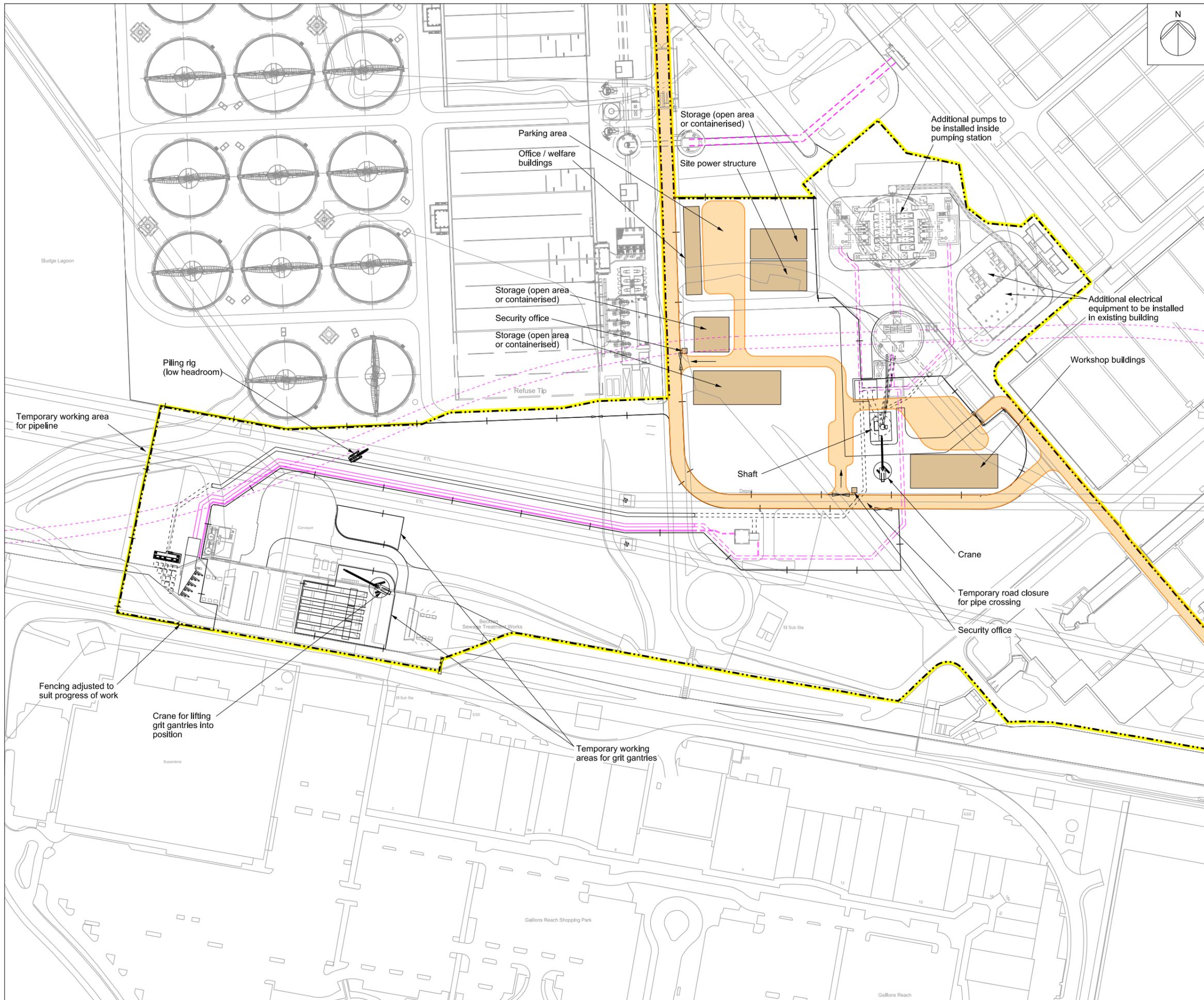


ILLUSTRATIVE

Location
Beckton STW
 London Borough of Newham

Document Information
Application for Development Consent
 Construction phases - phase 1 - site B
 Setup, shaft construction & other structures
 Book of plans - section 28
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 January 2013





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Keyplan: This drawing

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Key:

- Limits of land to be acquired or used (LLAU)
- +— Hoarding
- Maximum extent of working area
- 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.

10m 0 100m
 Scale 1:1000 at A1
 1:2000 if reproduced at A3

ILLUSTRATIVE

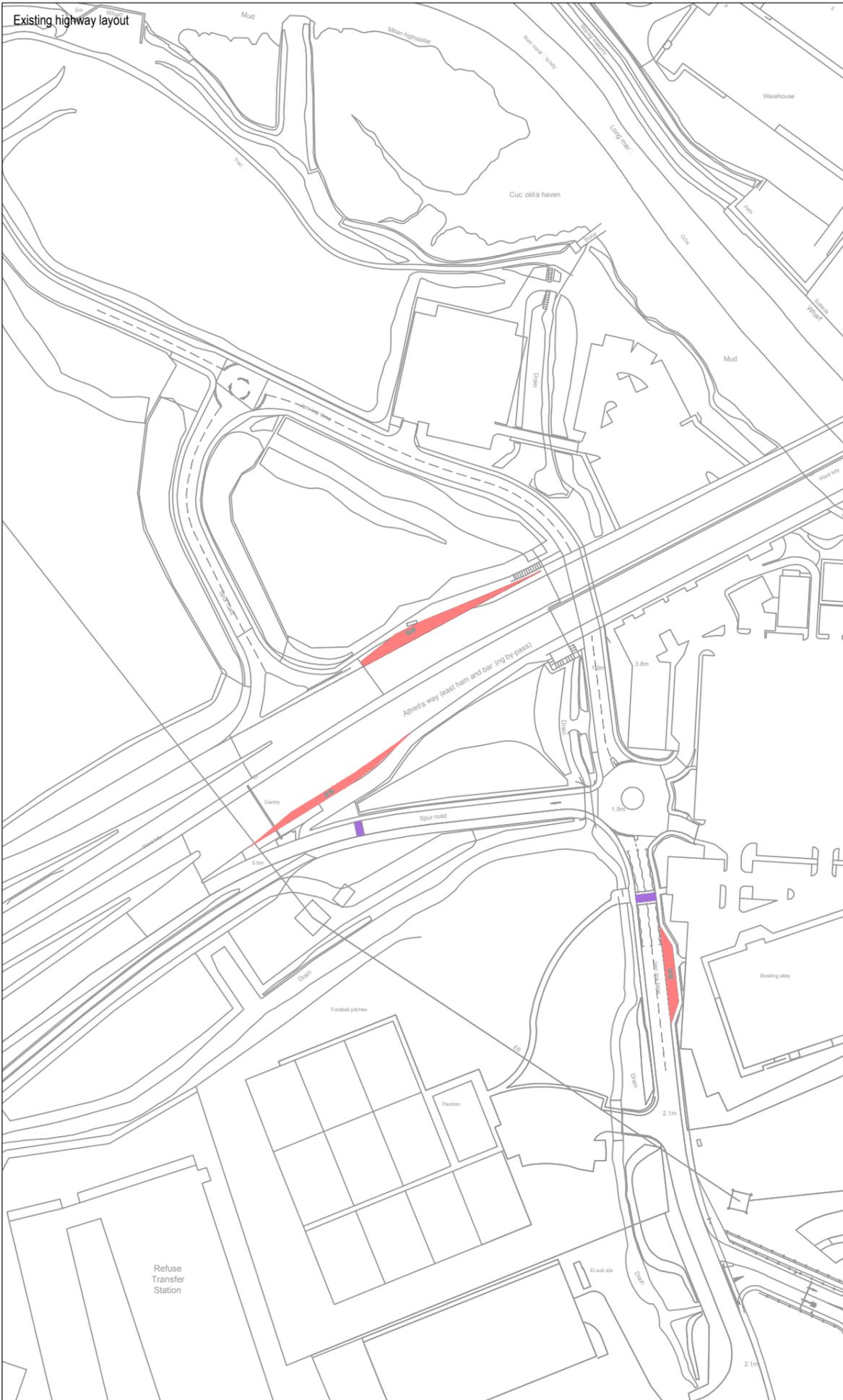
Location
 Beckton STW
 London Borough of Newham

Document Information
 Application for Development Consent
 Construction phases - phase 2 - site A
 Flow transfer & other structures
 Book of plans - section 28
 DCO-PP-27X-BESTW-280011
 January 2013

Thames Tideway Tunnel
 Creating a cleaner, healthier River Thames

Thames Water

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Key
 Existing
 Bus stop / stand
 Pedestrian crossing
 Revised
 See schedule of works
 L.L.A.U.

- 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, CIHT, 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

Stage
 All phases

Scale 1:1000 at A1
 1:2000 if reproduced at A3

ILLUSTRATIVE

Location
 Beckton sewage treatment plant
 LB Newham

Document Information
 Application for Development Consent
 Highway layout during construction
 1 of 2

DCO-PP-27X-BESTW-280013
 January 2013



Notes
 1. All dimensions and levels are approximate.
 2. Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.



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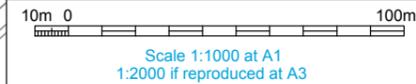


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key
Revised
--- L.L.A.U.

- 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, CIHT, 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

Stage
All phases



ILLUSTRATIVE

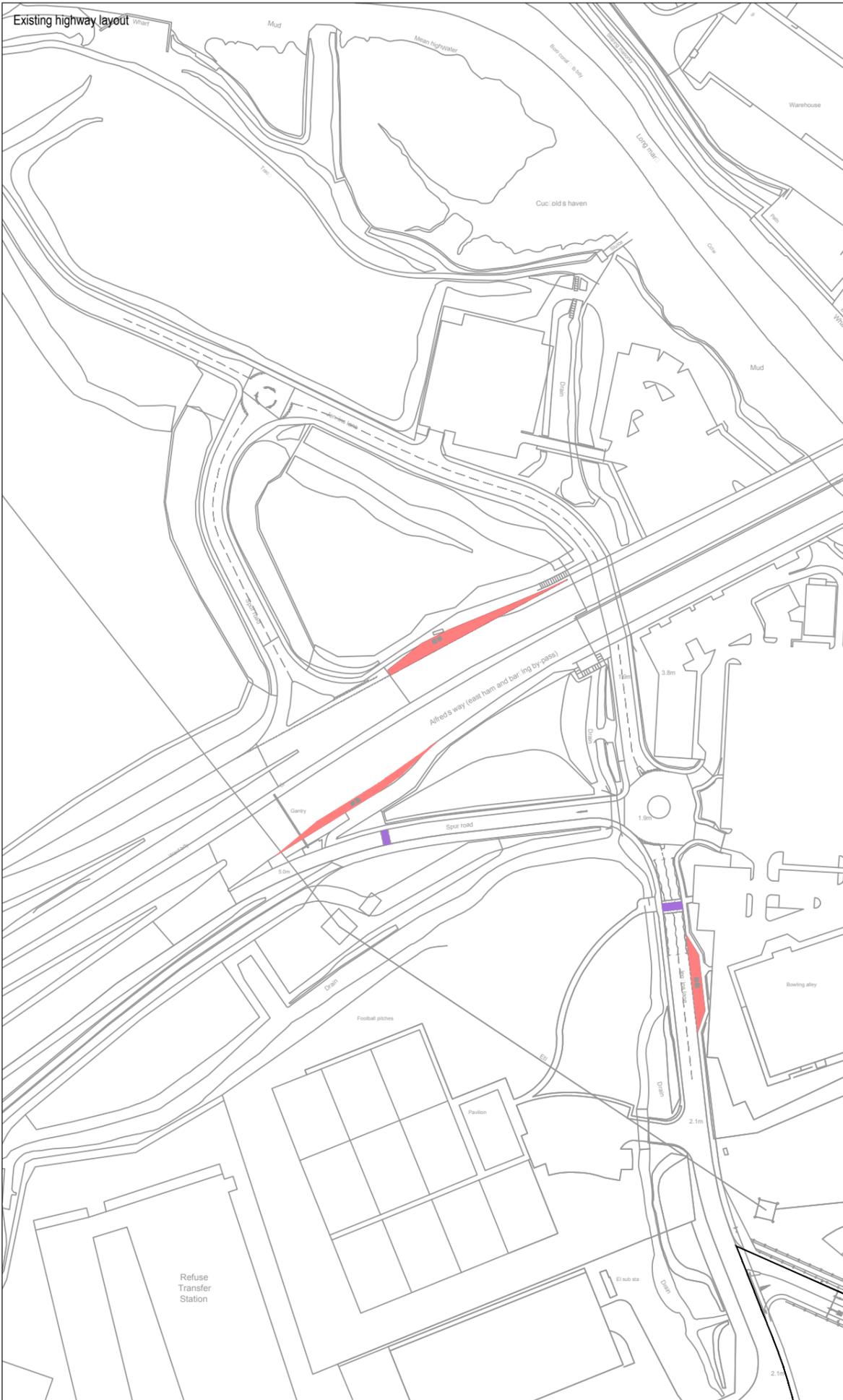
Location
Beckton sewage treatment plant
London Borough of Newham

Document Information
Application for Development Consent
Highway layout during construction
2 of 2

DCO-PP-27X-BESTW-280014
January 2013



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Keyplan:

This drawing

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Key

- Existing
- Bus stop / stand
- Pedestrian crossing
- Revised
- See schedule of works

On street parking

Permit holder
 permit holders only mon - fri 8:30am - 6:30pm
 Solo motorcycle
 solo motorcycles only at all times
 Car club permit holders
 car club permit holders at all times

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, CIHT, 2010
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- Accessible bus stop design guidance, TfL, 2006

Stage
 Permanent phase

10m 0 100m

Scale 1:1000 at A1
 1:2000 if reproduced at A3

ILLUSTRATIVE

Location
 Beckton sewage treatment plant
 London Borough of Newham

Document Information
 Application for Development Consent
 Permanent highway layout
 1 of 2

DCO-PP-27X-BESTW-280015
 January 2013

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Thames Tideway Tunnel
 Creating a cleaner, healthier River Thames

Thames Water

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Existing highway layout

Permanent layout



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Keyplan:



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Standards

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- Accessible bus stop design guidance, TfL, 2006

Stage

Permanent phase

10m 0 100m

Scale 1:1000 at A1
1:2000 if reproduced at A3

ILLUSTRATIVE

Location

Beckton sewage treatment plant
London Borough of Newham

Document Information

Application for Development Consent

Permanent highway layout
2 of 2

DCO-PP-27X-BESTW-280016
January 2013

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