

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: **2.05**

Acton Storm Tanks

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

Hard copy available in
Box **61** Folder **B**
January 2013

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

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Application for Development Consent: Book of Plans

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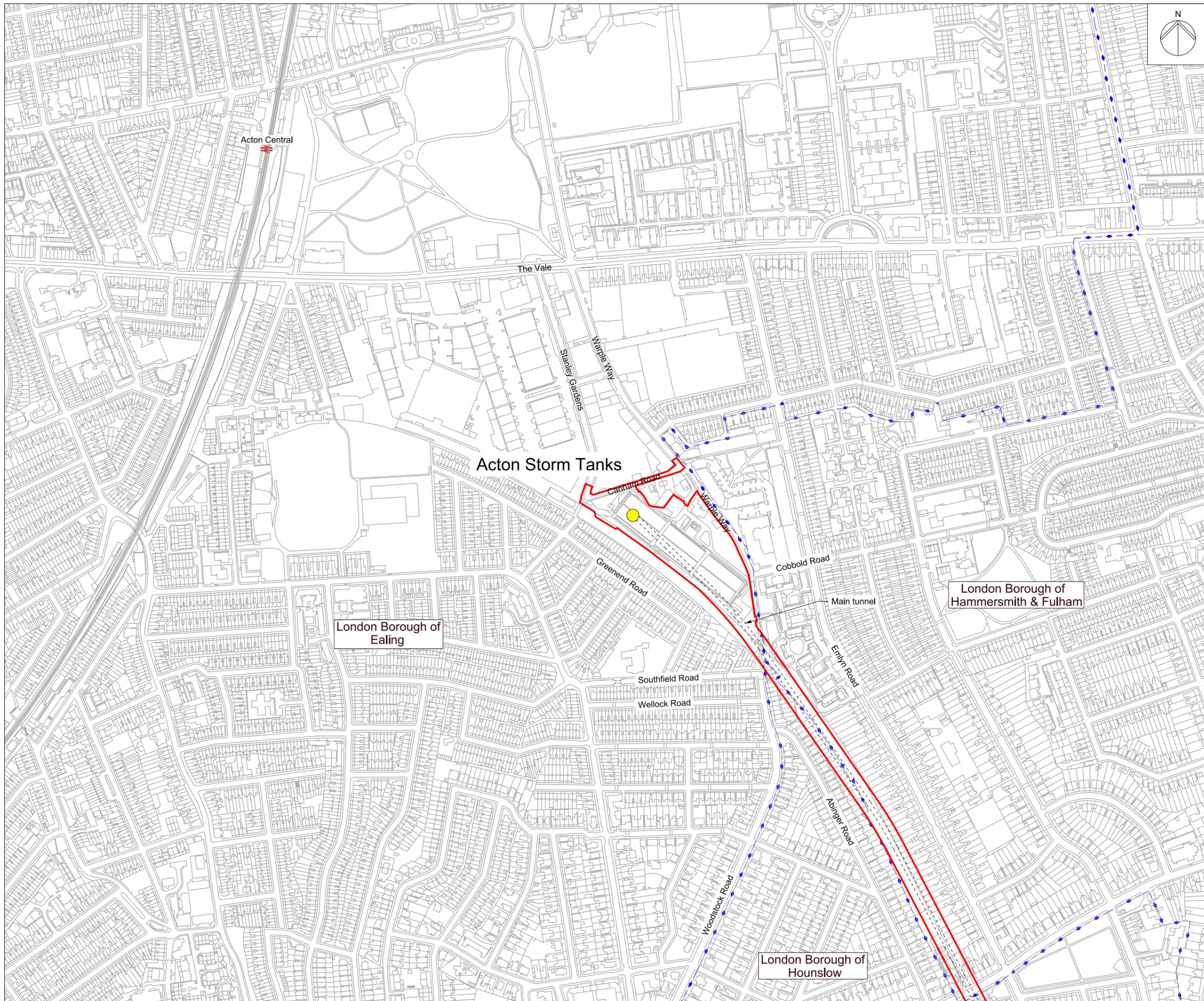
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Volume 2

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* Schedules of associated highway works are located in the *Transport Assessment*, which accompanies the application



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Keyplan:



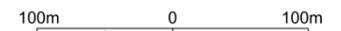
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

-  Local authority boundary
-  Order limits
-  Tunnel
-  Shaft

Notes:

1. The alignment of the tunnels are illustrative within limits of deviation.



Scale 1:2500 at A1
1:5000 if reproduced at A3

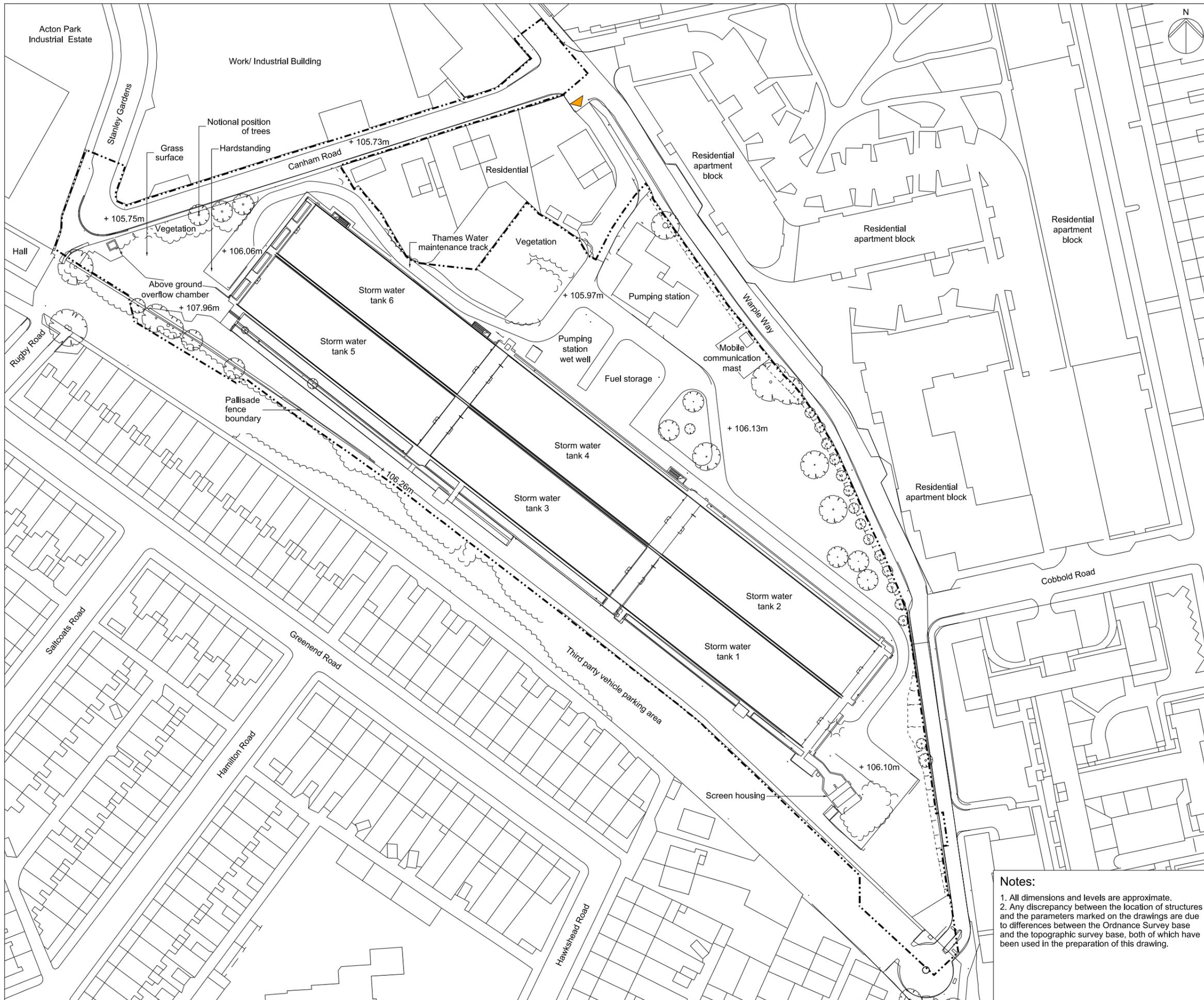
FOR INFORMATION

Location
Acton Storm Tanks
 London Borough of Ealing

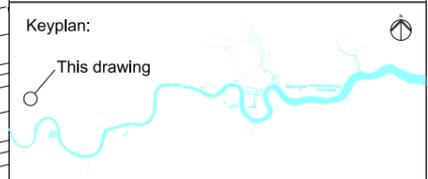
Document Information
Application for Development Consent
 Location plan

Book of plans - section 5
 DCO-PP-02X-ACTST-050001
 January 2013



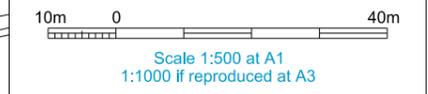


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - Existing trees within surveyed area (trunk sizes vary)
 - Thames Water access



FOR INFORMATION

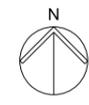
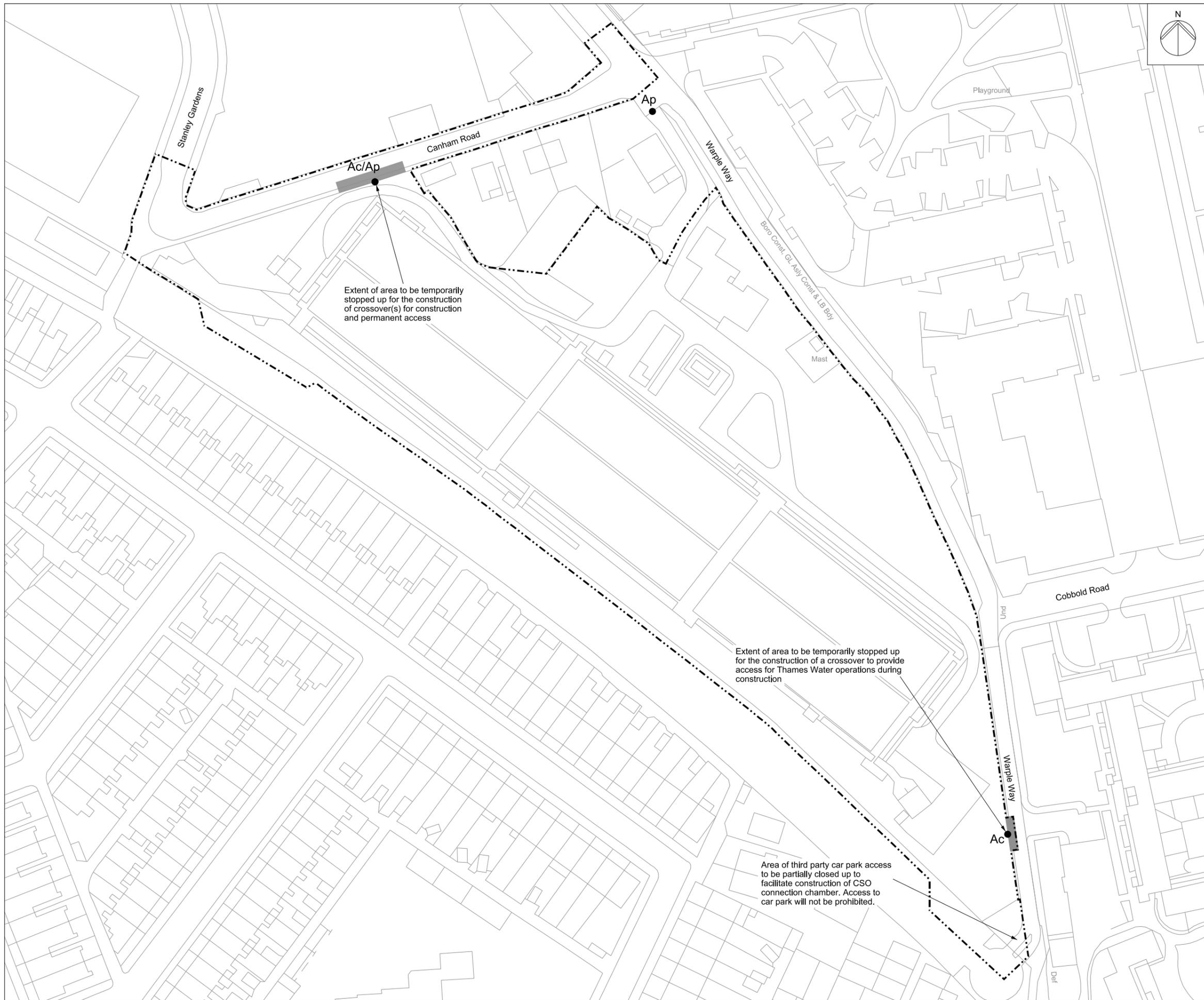
Location
Acton Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
As existing
Site features plan
Book of plans - section 5
DCO-PP-02X-ACTST-050002
January 2013

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 the topographic survey base, both of which have been used in the preparation of this drawing.





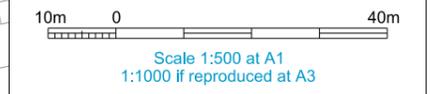
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Area of highway to be temporarily stopped up
 - Ap** ● Access to permanent works
 - Ac** ● Access to construction works

- 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.



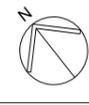
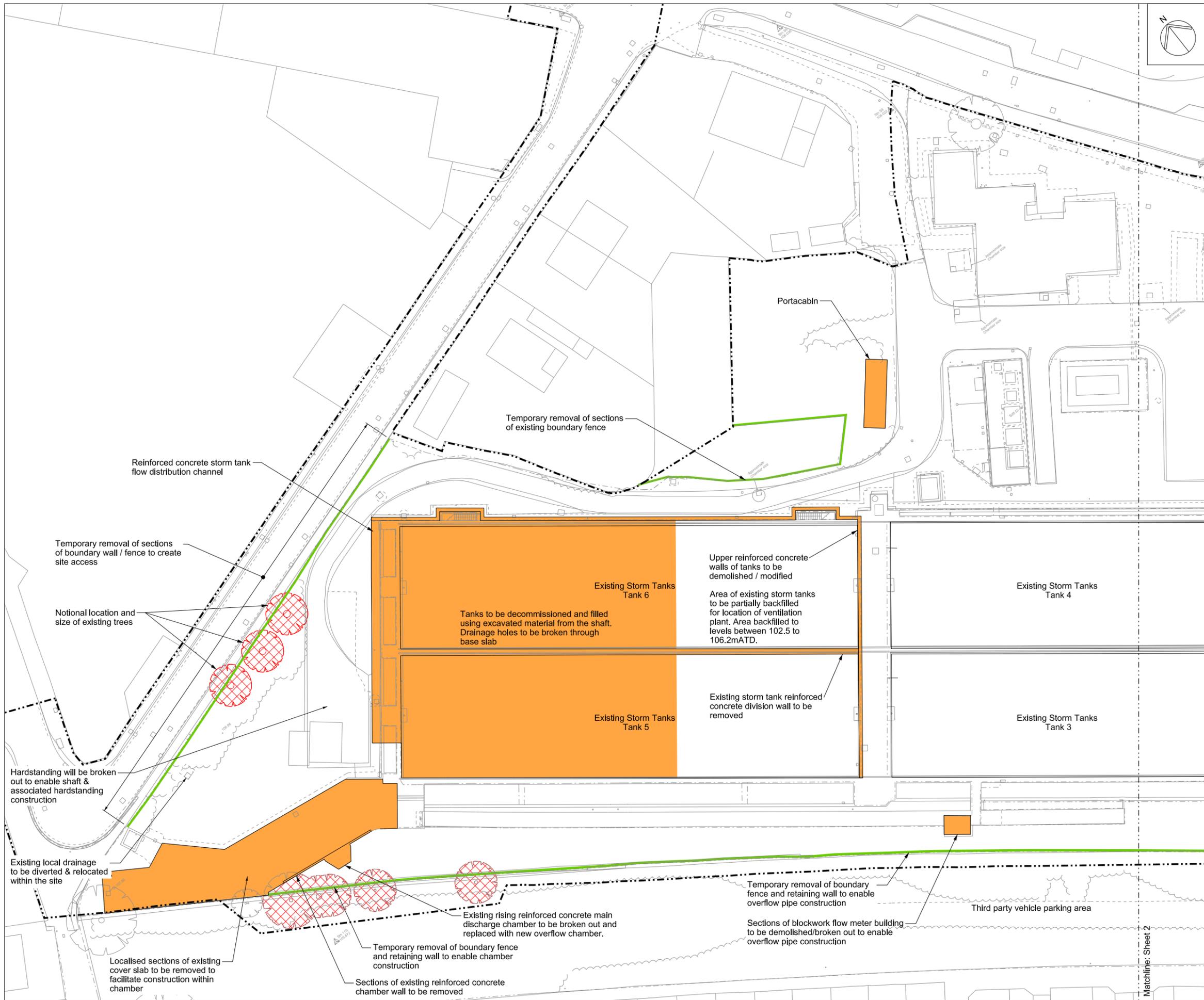
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Location
Acton Storm Tanks
 London Borough of Ealing

Document Information
Application for Development Consent
 Access plan

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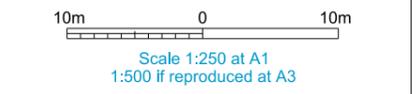
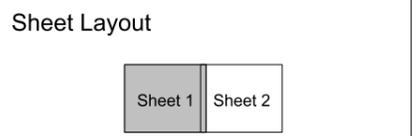
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Above ground structures to be removed
 - Structure to be removed and relocated or reinstated

- 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.

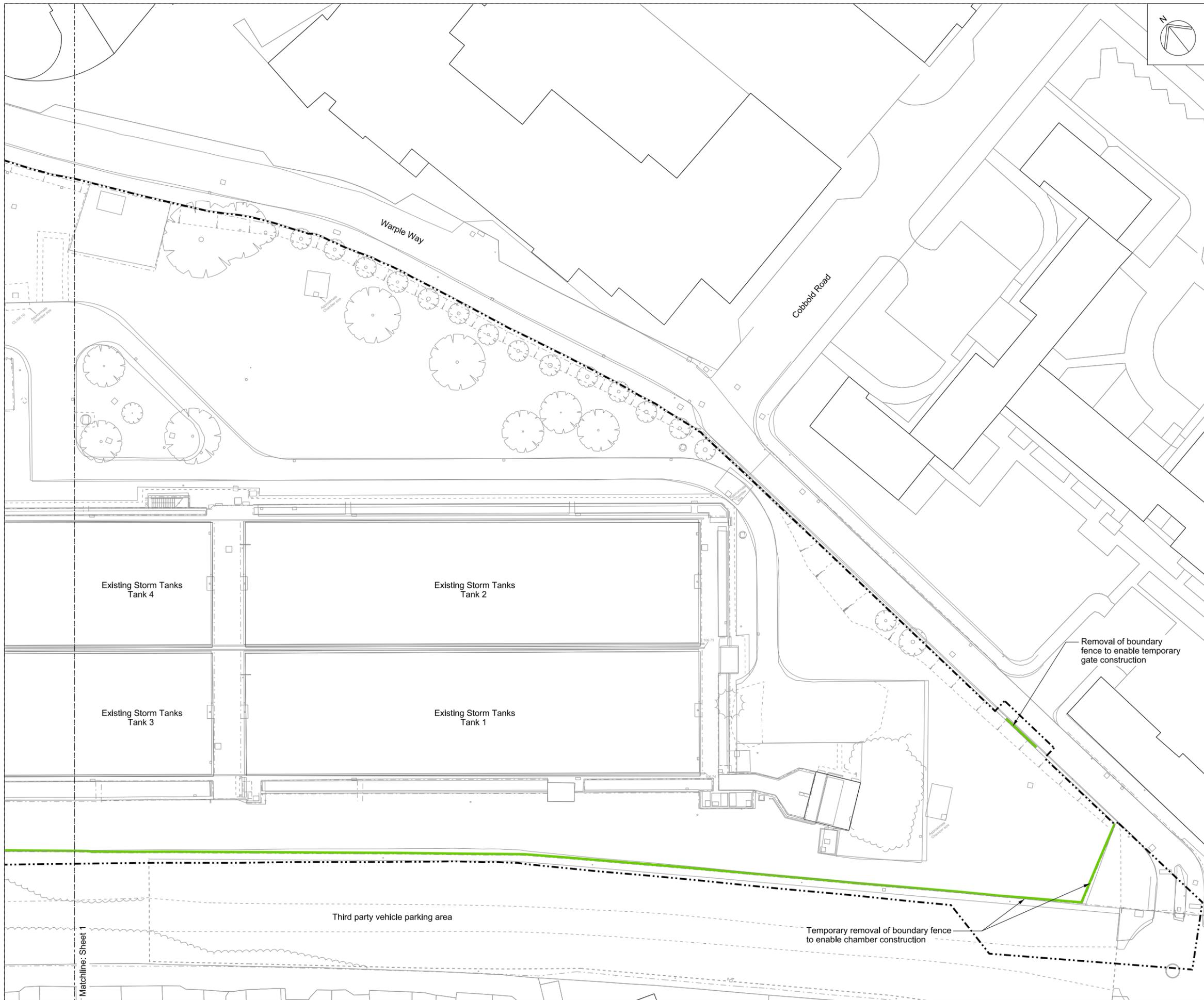


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Location
Acton Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
Demolition and site clearance
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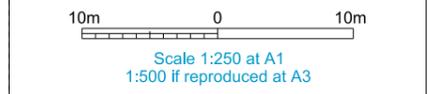
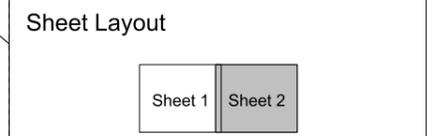
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

- Limits of land to be acquired or used (LLAU)
- Structure to be removed and relocated or reinstated

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.

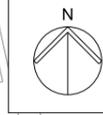


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Location
Acton Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
Demolition and site clearance
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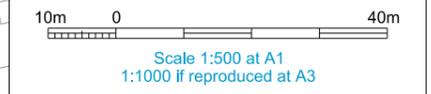
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located (those listed in Table 1)
 - Zone within which required landscaping 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.



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Location
Acton Storm Tanks
 London Borough of Ealing

Document Information
Application for Development Consent
 Site works parameter plan

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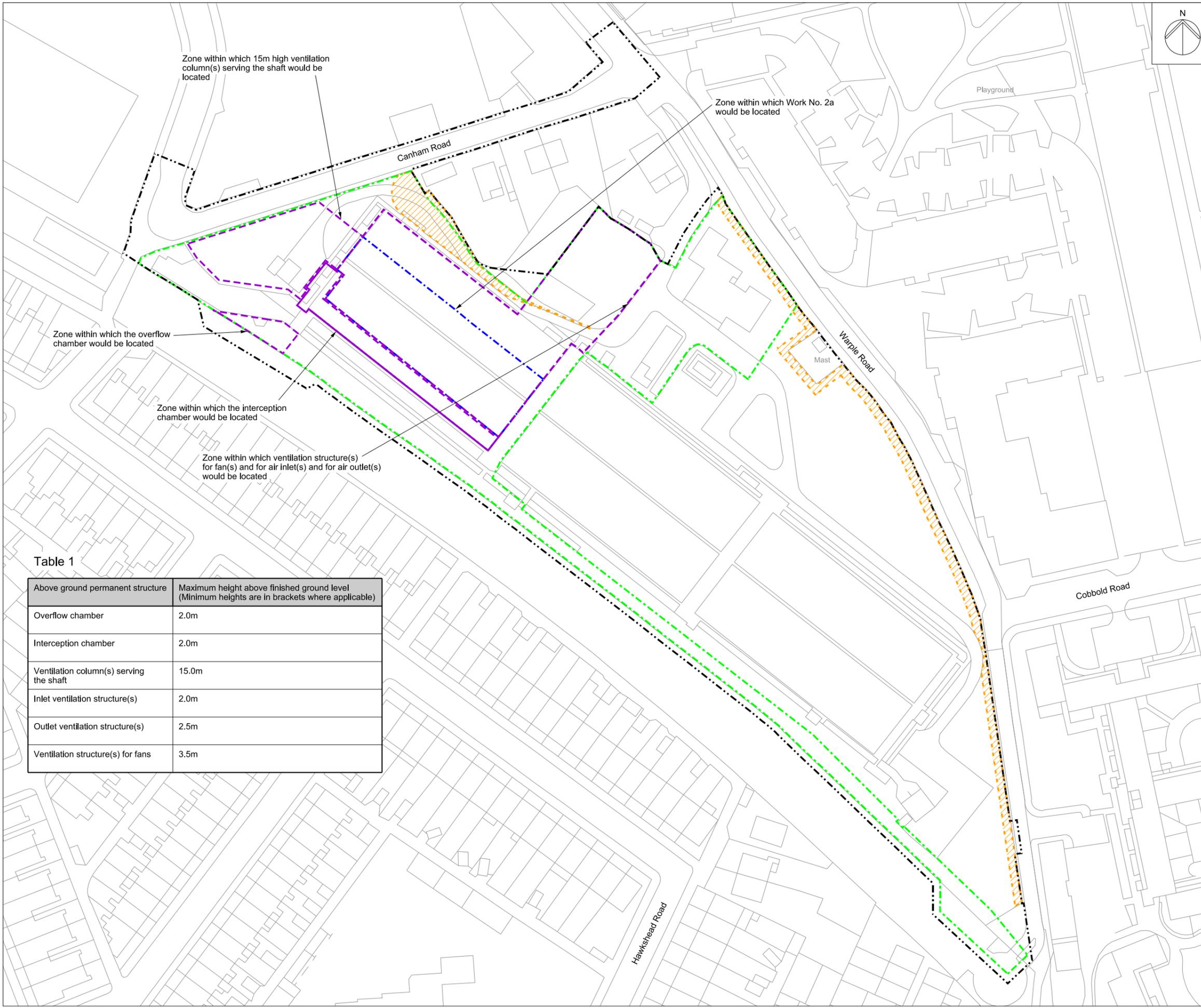
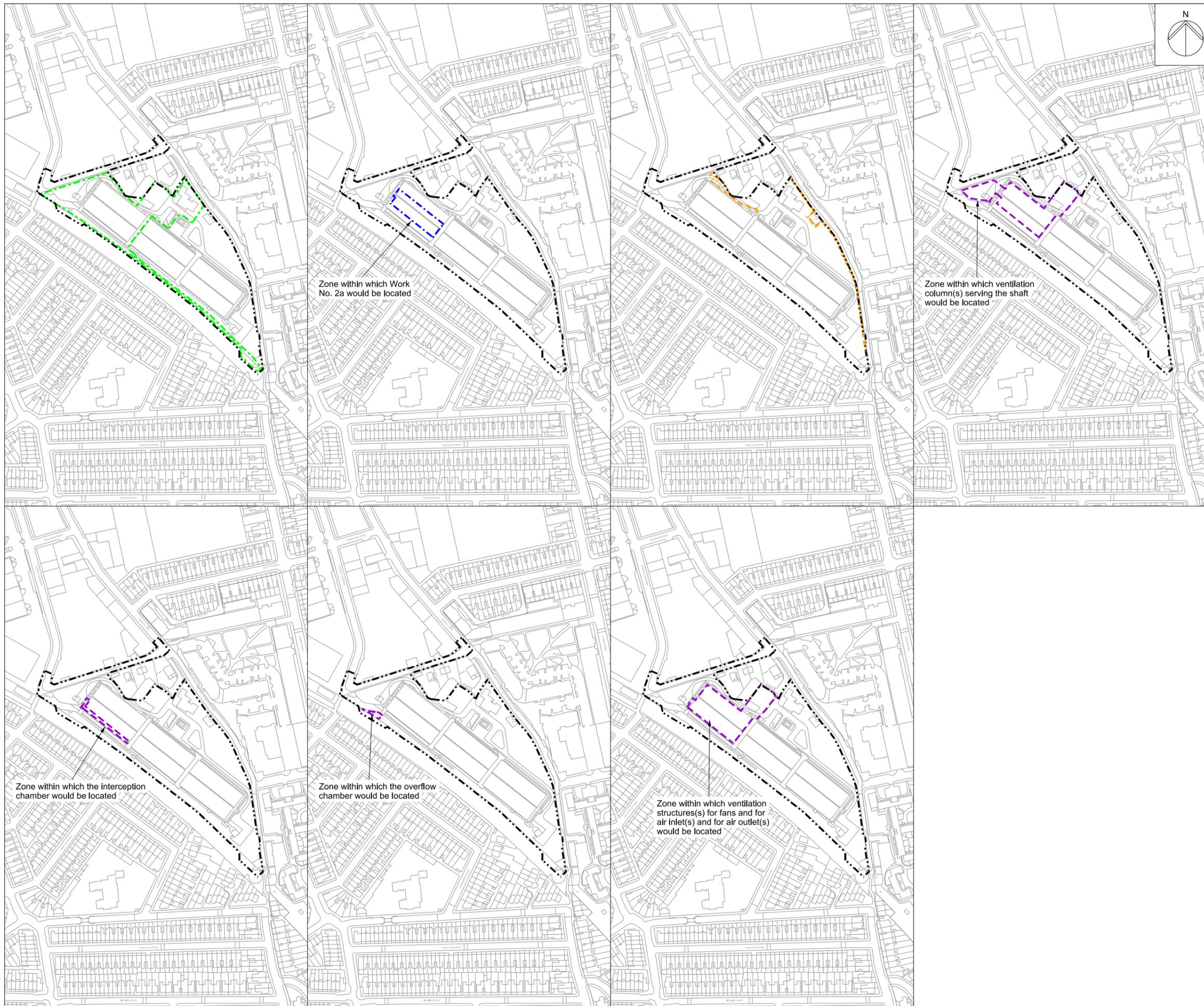


Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Overflow chamber	2.0m
Interception chamber	2.0m
Ventilation column(s) serving the shaft	15.0m
Inlet ventilation structure(s)	2.0m
Outlet ventilation structure(s)	2.5m
Ventilation structure(s) for fans	3.5m



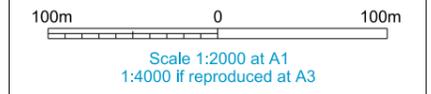
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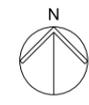
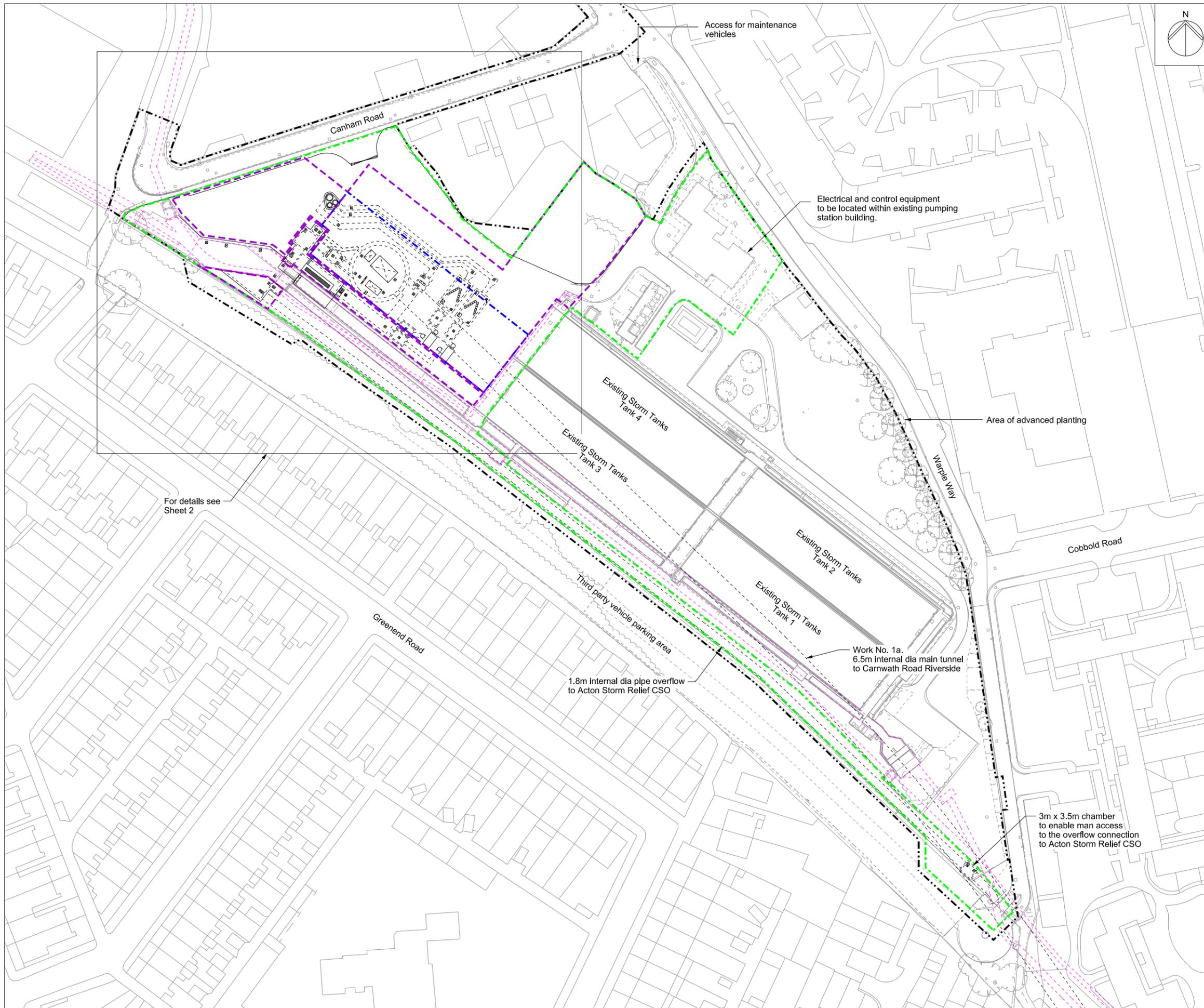
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 London Borough of Ealing

[Document Information](#)
Application for Development Consent
 Site works parameter key plan

Book of plans - section 5
 DCO-PP-02X-ACTST-050007
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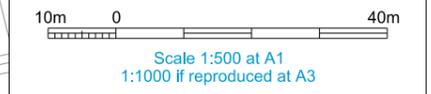
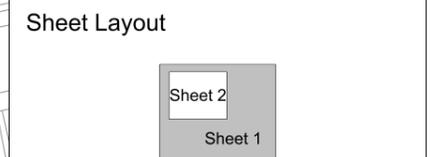
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - ☐ Proposed access cover
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent 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.

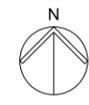
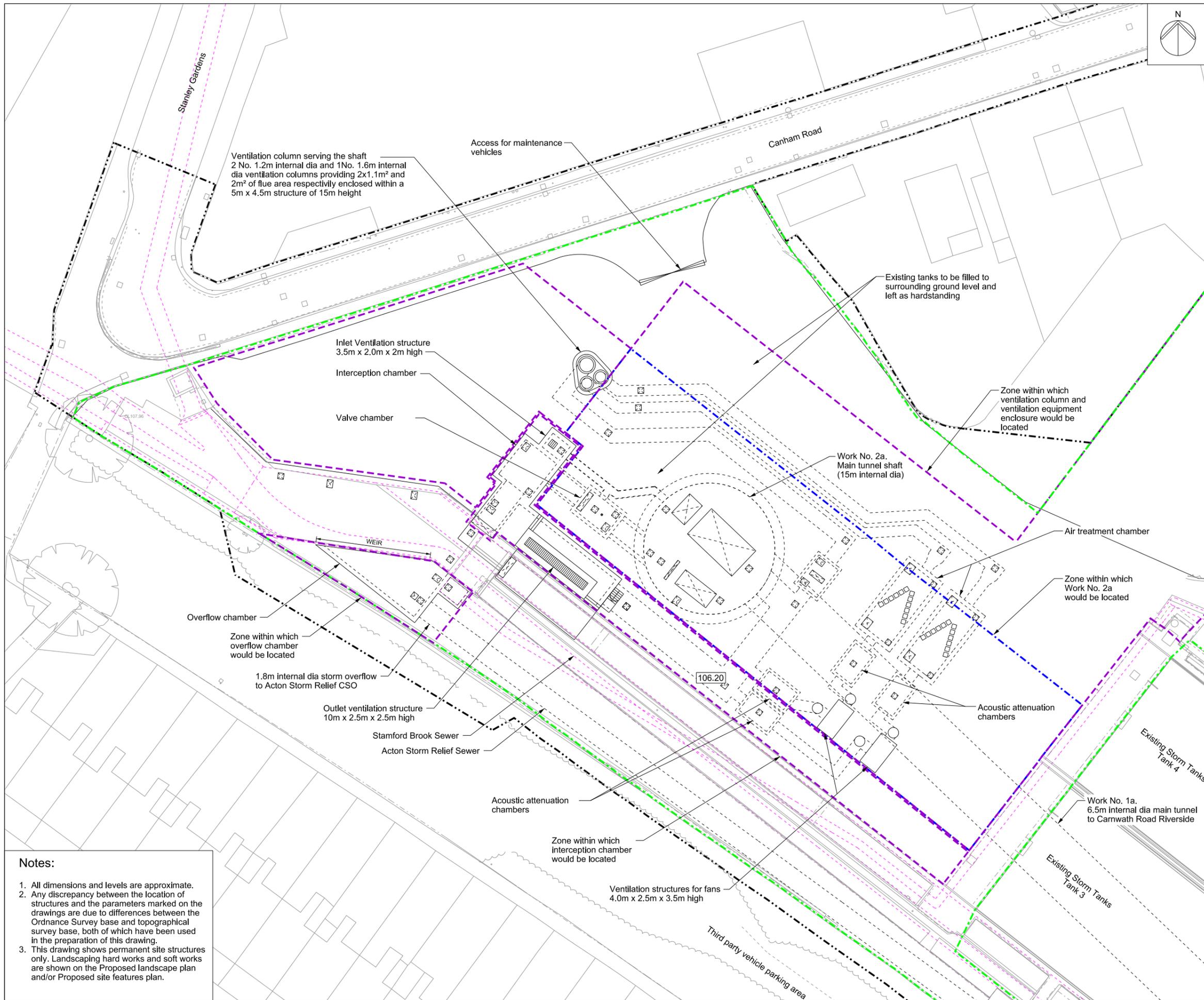


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Location
Acton Storm Tanks
 London Borough of Ealing

Document Information
Application for Development Consent
 Permanent works layout
 Sheet 1 of 2
 Book of plans - section 5
 DCO-PP-02X-ACTST-050008
 January 2013



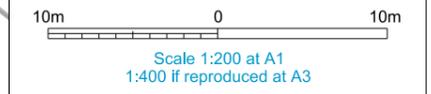
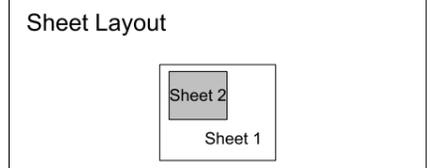


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - ☒ Proposed access cover
 - + 104.10m Existing Level (shown in metres above tunnel datum)
 - 104.50 Proposed level (shown in metres above tunnel datum)
 - Zone within which 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



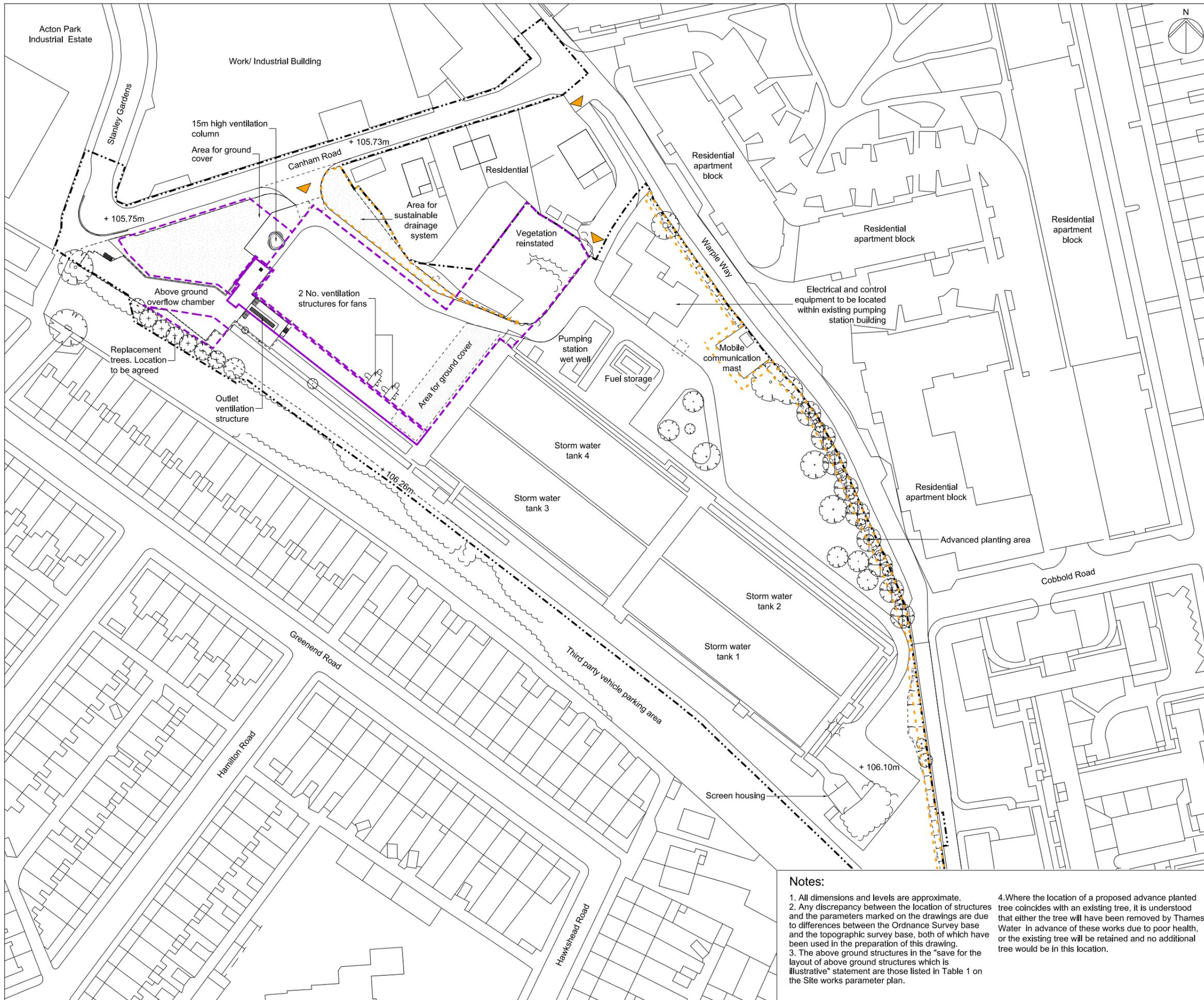
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Location
Acton Storm Tanks
 London Borough of Ealing

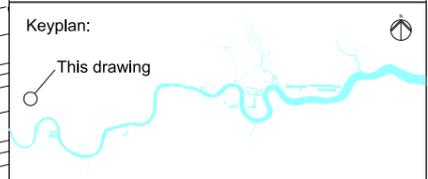
Document Information
Application for Development Consent
 Permanent works layout
 Sheet 2 of 2
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 January 2013



- Notes:**
1. All dimensions and levels are approximate.
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 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.

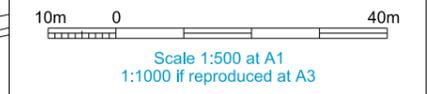


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - Zone within which permanent above ground structures would be located
 - . - Zone within which required landscaping would be located
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - ⊙ Existing trees within surveyed area (trunk sizes vary)
 - ⊕ Proposed trees
 - ▶ Thames Water access
 - ⊗ Advanced planting



INDICATIVE
Save for layout of above ground structures which is illustrative

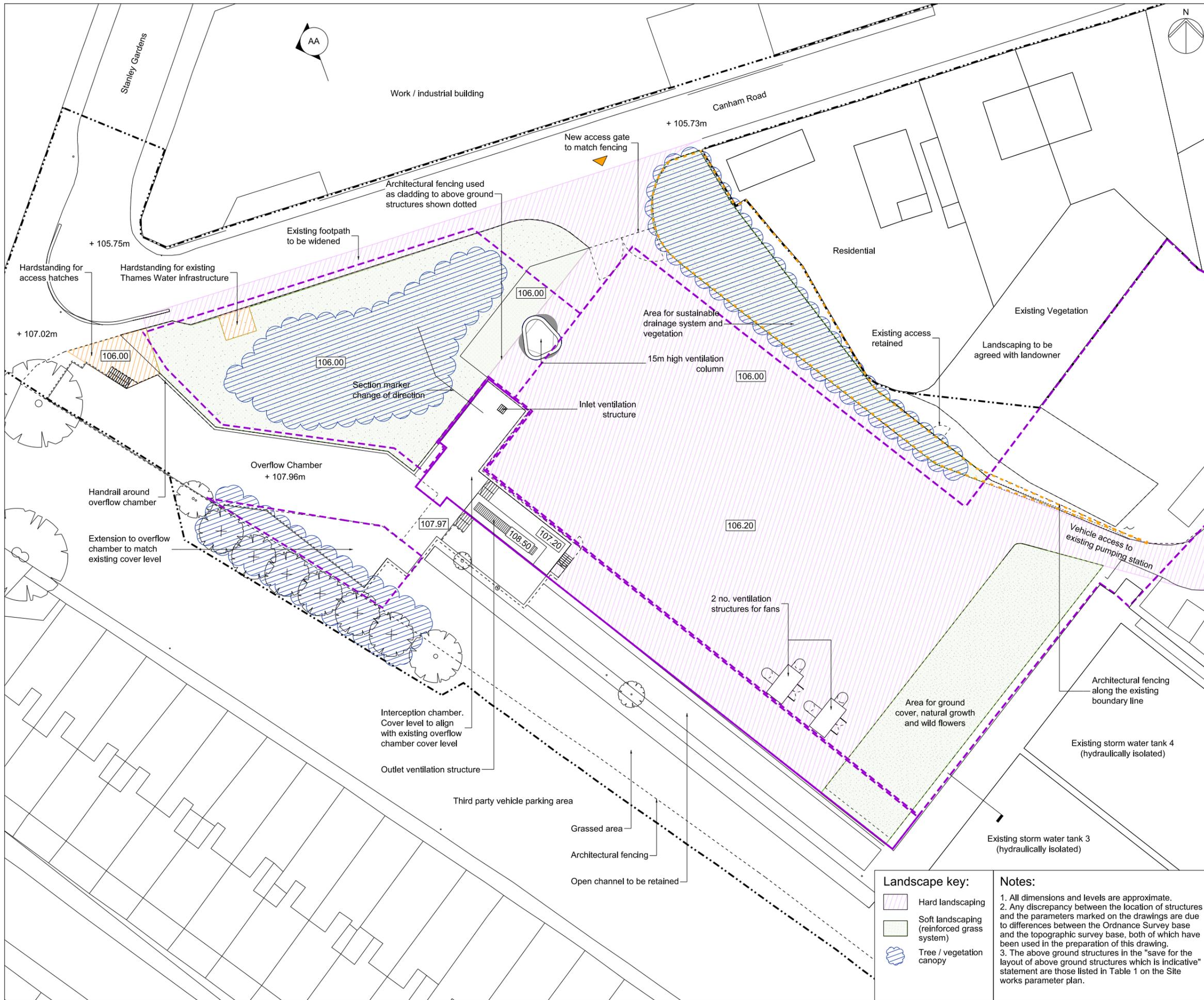
Location
Acton Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
Proposed
Landscape plan - overall
Book of plans - section 5
DCO-PP-02X-ACTST-050010
January 2013



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 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.
4. Where the location of a proposed advance planted tree coincides with an existing tree, it is understood that either the tree will have been removed by Thames Water in advance of these works due to poor health, or the existing tree will be retained and no additional tree would be in this location.

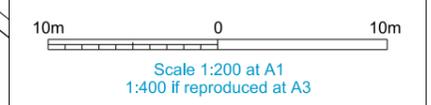


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - Zone within which permanent above ground structures would be located
 - - - Zone within which required landscaping 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
 - Thames Water access



INDICATIVE
Save for layout of above ground structures which is illustrative

Location
Acton Storm Tanks
London Borough of Ealing

Document Information
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Proposed
Landscape plan - shaft area
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- Landscape key:**
- Hard landscaping
 - Soft landscaping (reinforced grass system)
 - Tree / vegetation canopy
- Notes:**
- All dimensions and levels are approximate.
 - 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.
 - The above ground structures in the "save for the layout of above ground structures which is indicative" statement are those listed in Table 1 on the Site works parameter plan.

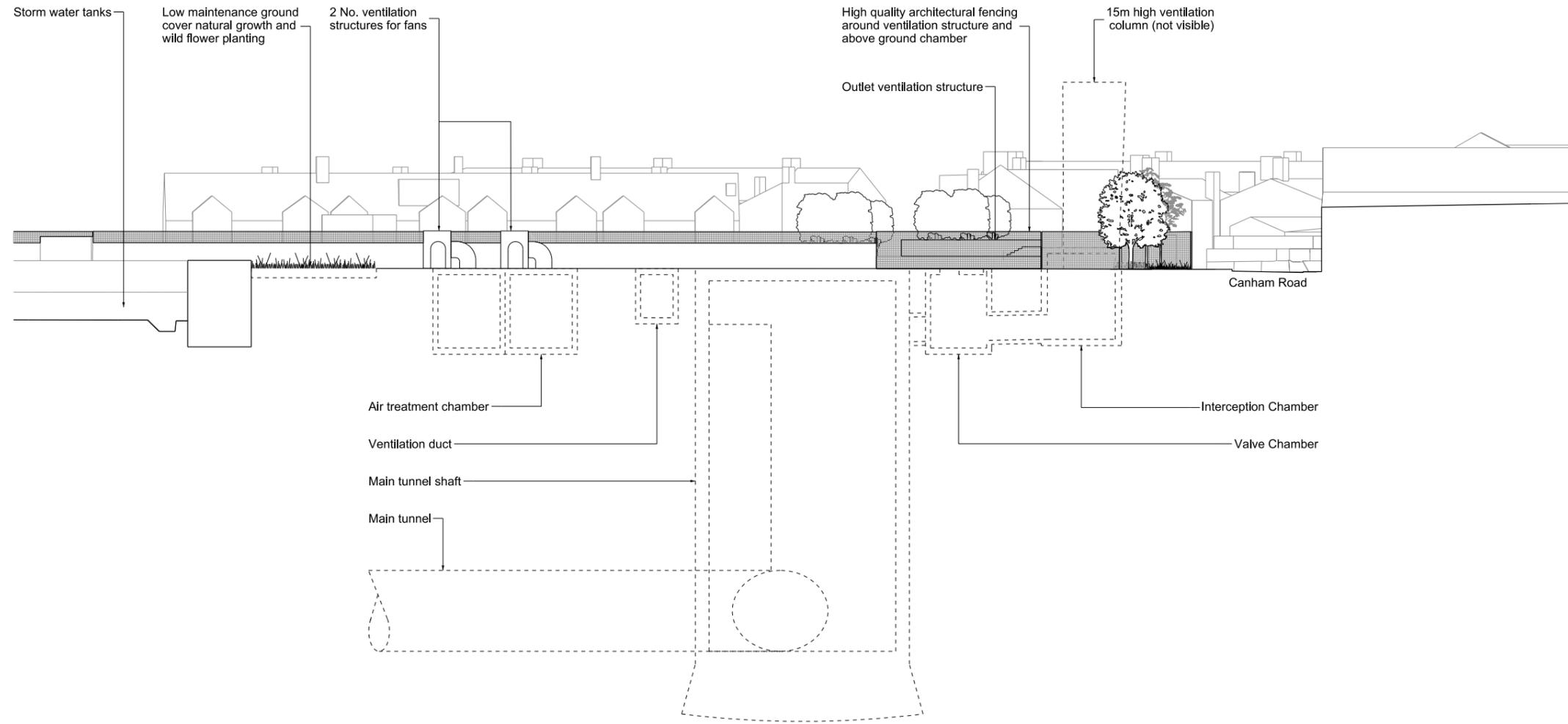
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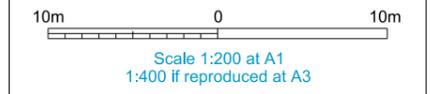
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

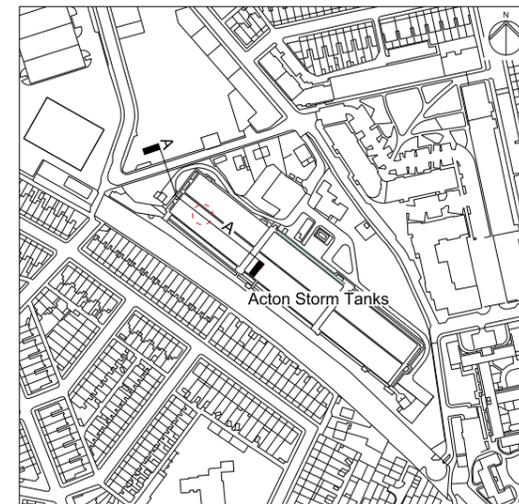
1. All dimensions and levels are approximate.
2. The purpose of this section is to illustrate the scale of the below ground infrastructure to be provided.



Section AA



ILLUSTRATIVE



Location
Acton Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
Section AA

Book of plans - section 5
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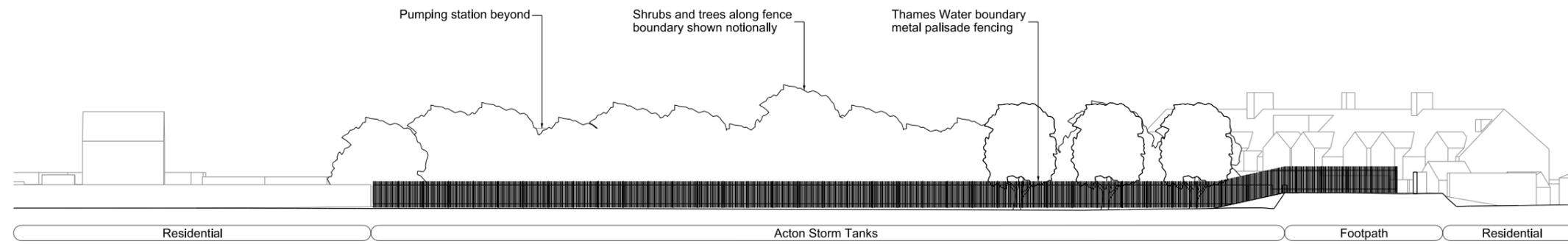
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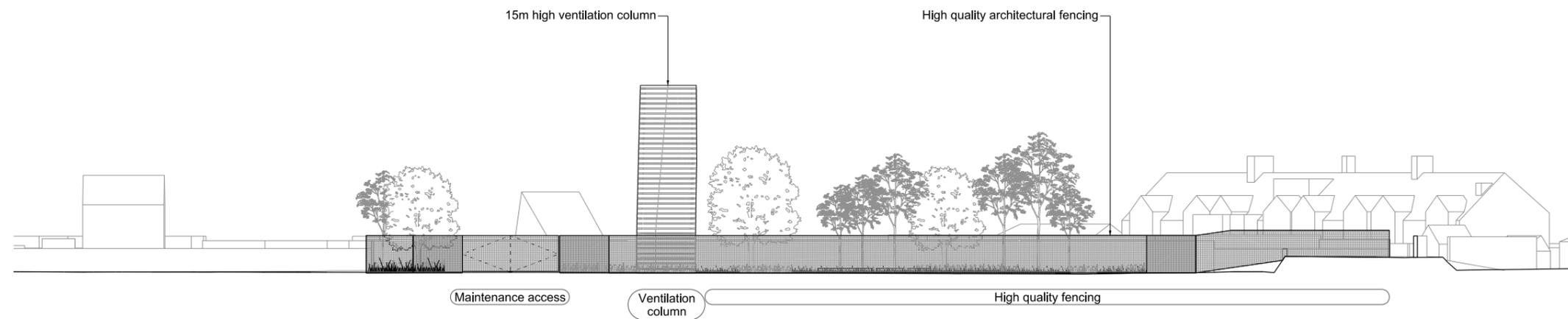
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

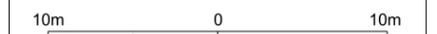
1. All dimensions and levels are approximate.



As existing North elevation

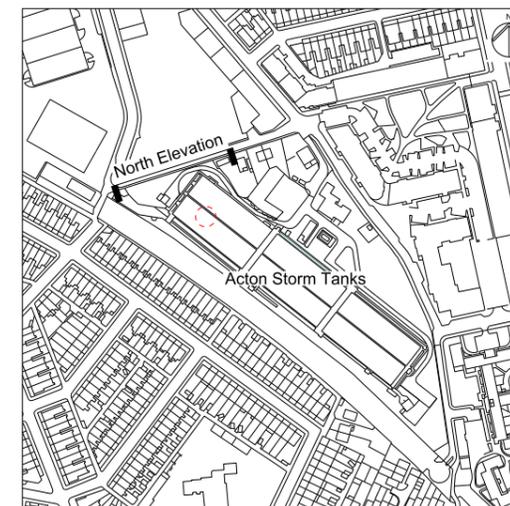


Proposed North elevation



Scale 1:200 at A1
1:400 if reproduced at A3

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Location
Acton Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
As existing and proposed
North elevation
Book of plans - section 5
DCO-PP-02X-ACTST-050013
January 2013

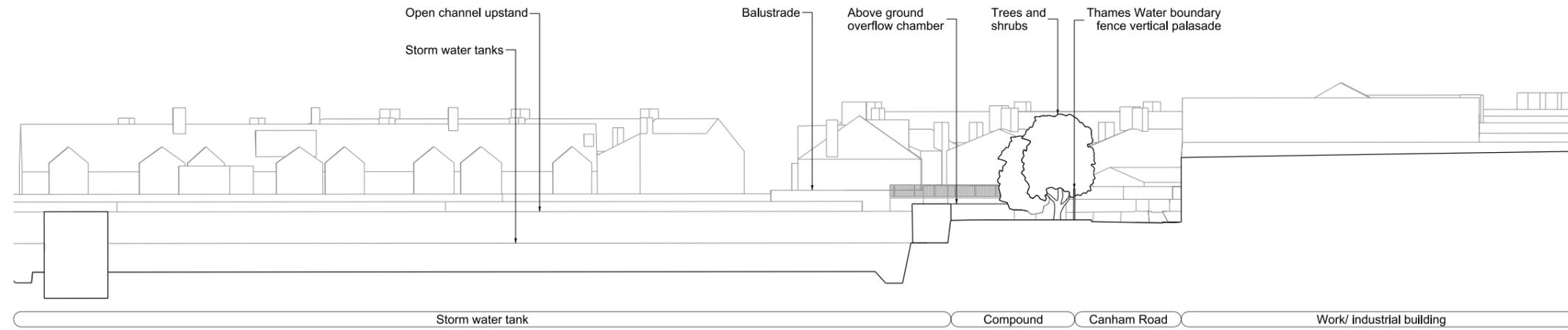


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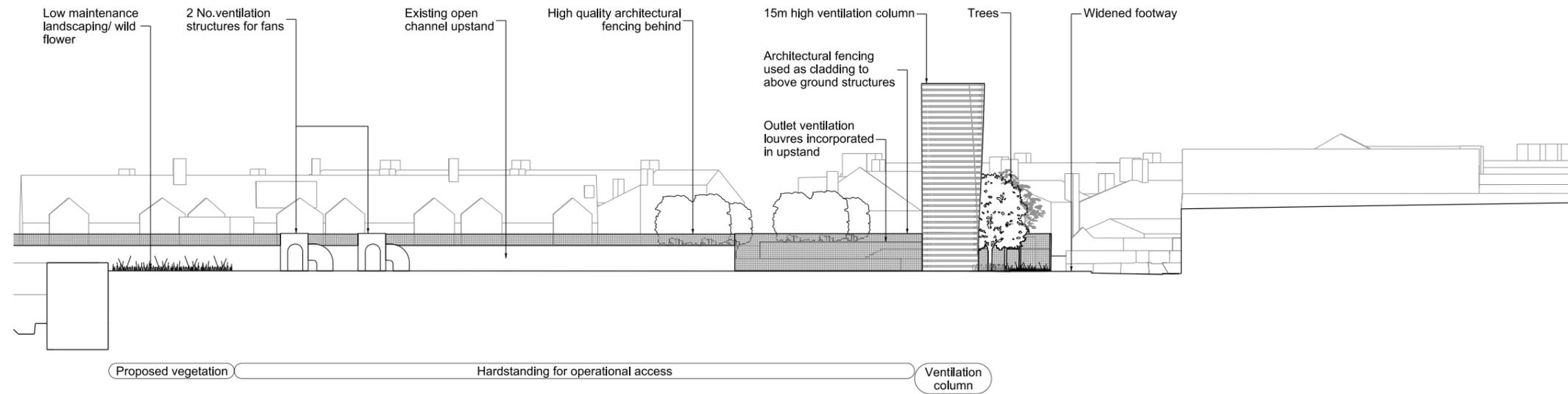


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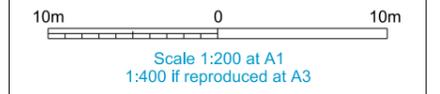
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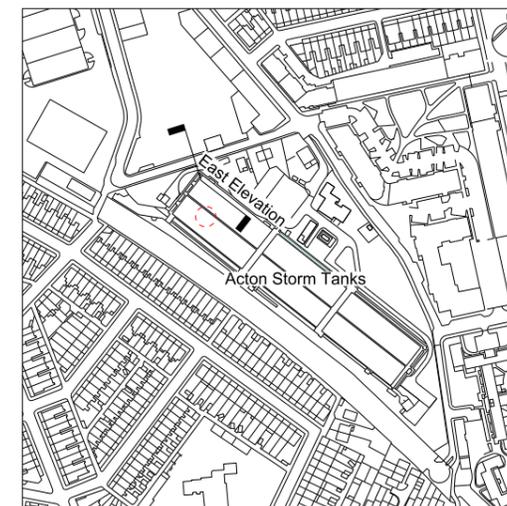
As existing East elevation



Proposed East elevation



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Location
Acton Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
As existing and proposed
East elevation
Book of plans - section 5
DCO-PP-02X-ACTST-050014
January 2013

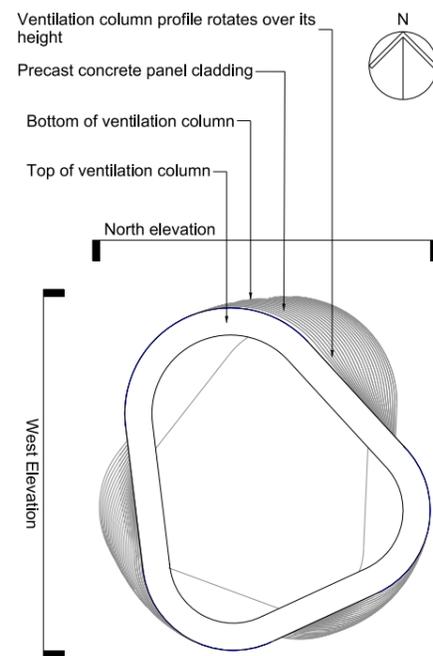




Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

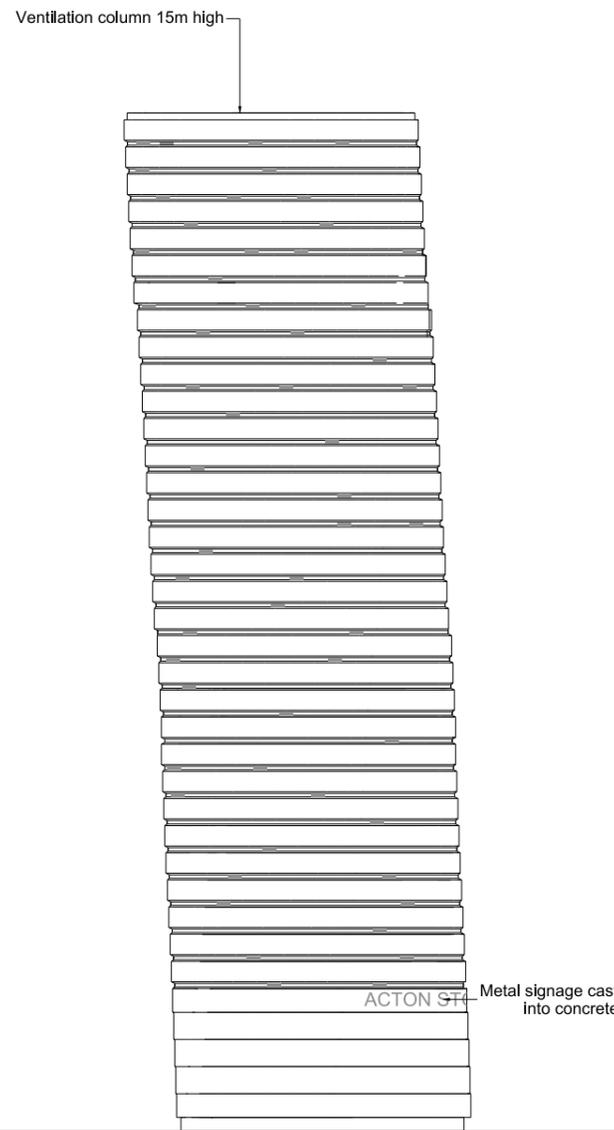
Notes:

1. All dimensions and levels are approximate.



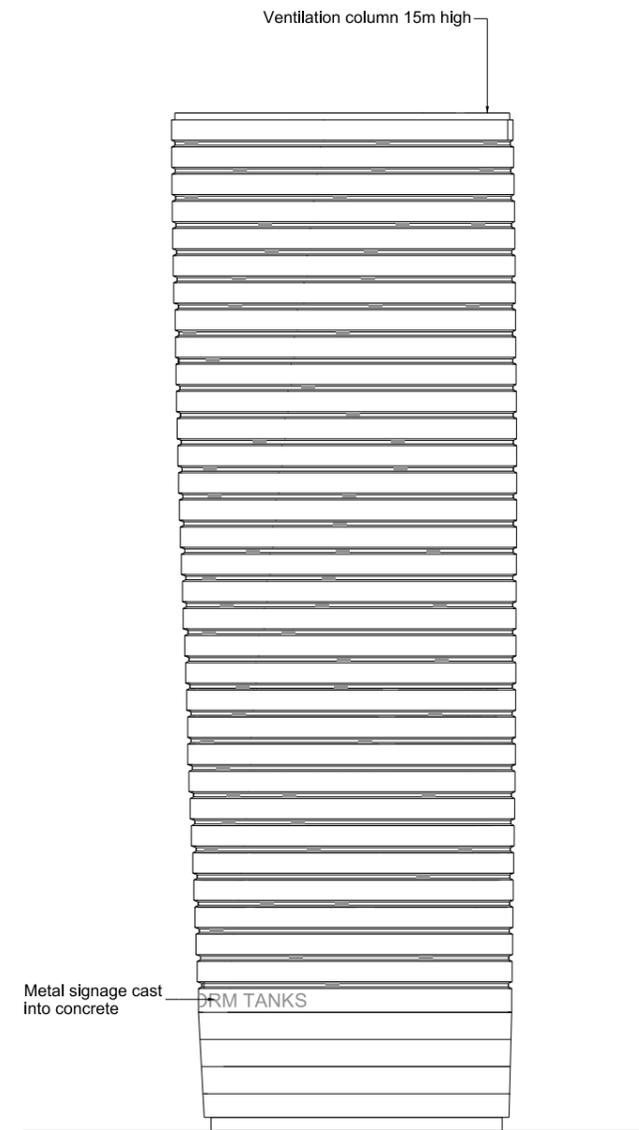
Plan

Scale 1:50



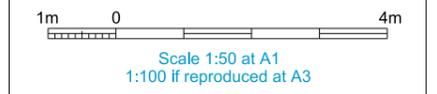
North elevation

Scale 1:50



West elevation

Scale 1:50



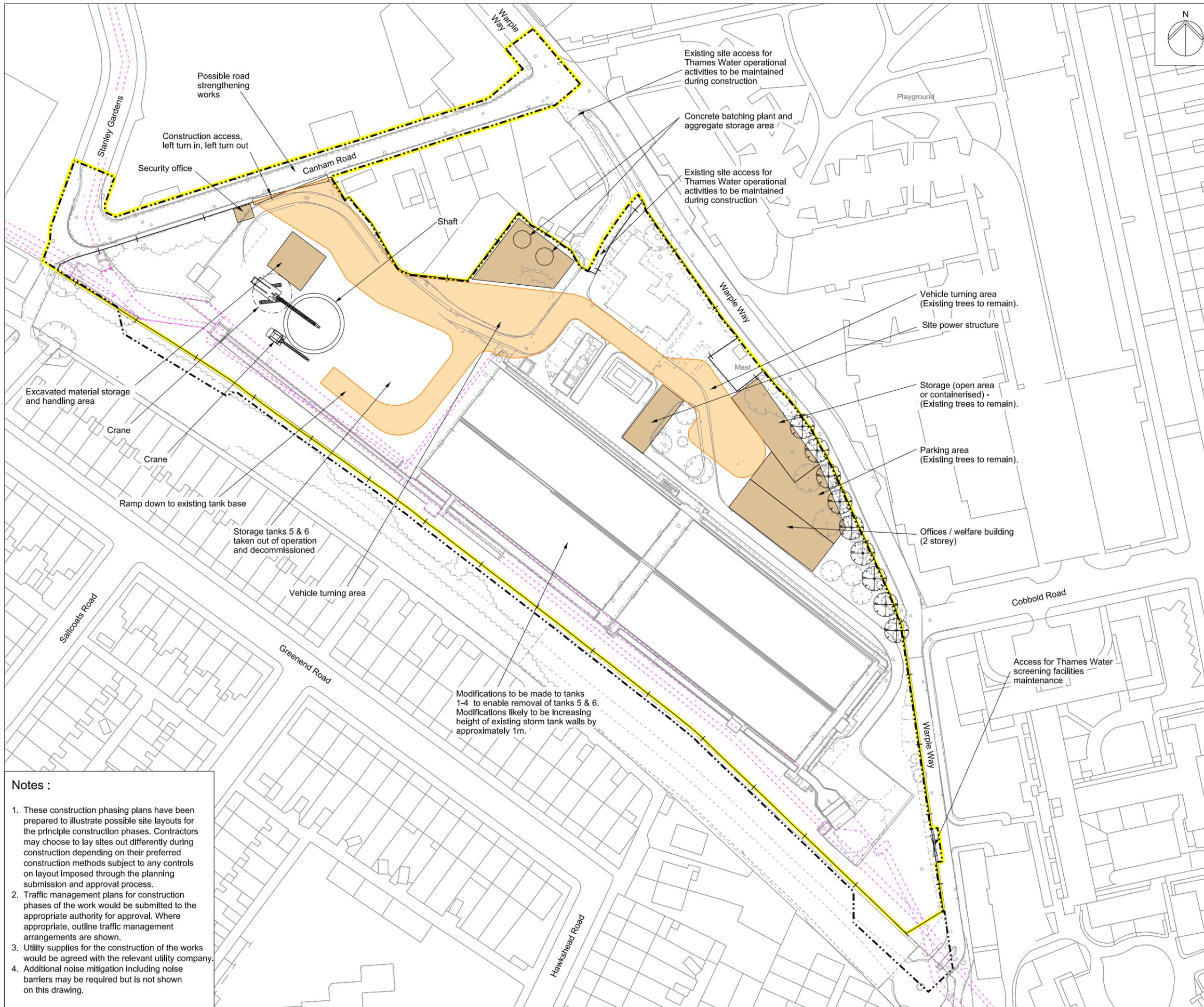
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Location
Acton Storm Tanks
London Borough of Ealing

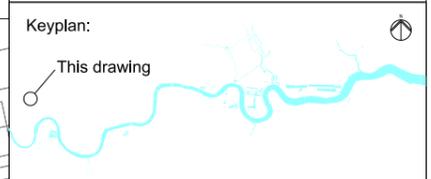
Document Information
Application for Development Consent
Ventilation column design intent

Book of plans - section 5
DCO-PP-02X-ACTST-050015
January 2013



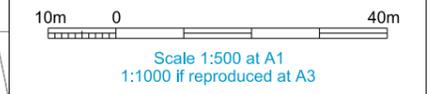


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- Key:
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Site access
 - Access / haul route
 - Existing sewers
 - Advanced planting to be agreed with local authority



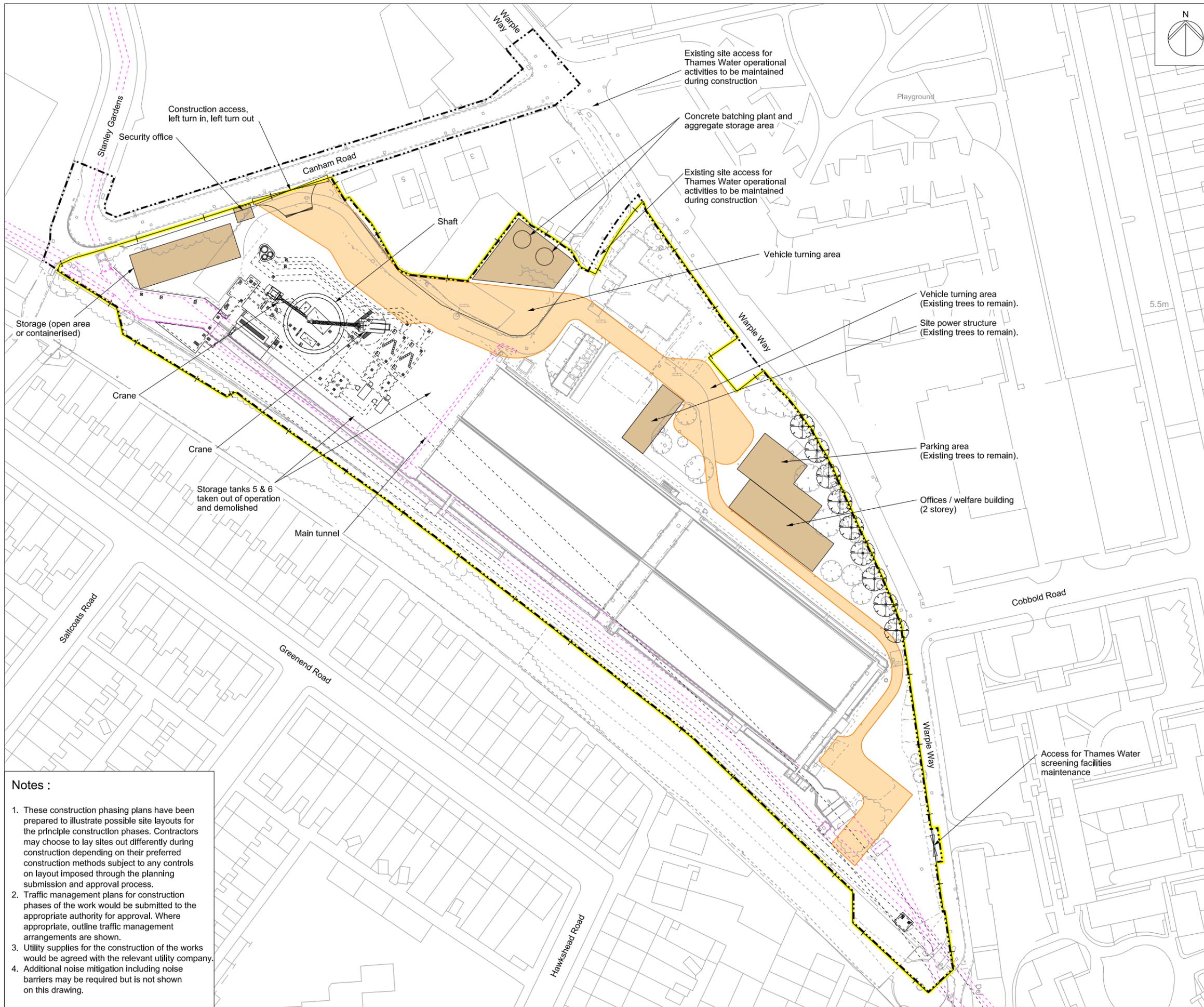
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- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction 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.

Location
Acton Storm Tanks
 London Borough of Ealing

Document Information
Application for Development Consent
 Construction phases - phase 1
 Site setup & shaft construction
 Book of plans - section 5
 DCO-PP-02X-ACTST-050016
 January 2013

Thames Tideway Tunnel
 Creating a cleaner, healthier River Thames



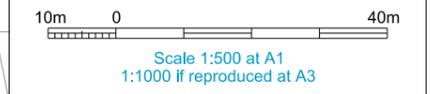
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

	Limits of land to be acquired or used (LLAU)
	Hoarding
	Maximum extent of working area
	Site access
	Access / haul route
	Existing sewers
	Advanced planting to be agreed with local authority



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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.

Location
Acton Storm Tanks
 London Borough of Ealing

Document Information
Application for Development Consent
 Construction phases - phase 2
 Other structures & secondary lining
 Book of plans - section 5
 DCO-PP-02X-ACTST-050017
 January 2013

Thames Tideway Tunnel
 Creating a cleaner, healthier River Thames



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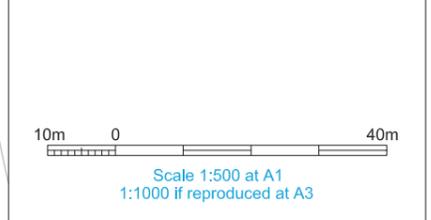
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key	
Existing	
	Parking restrictions
	On street parking
	Bus stop / stand
	Bus lane
	Pedestrian crossing
	Cycle lane / advance stop line
Revised	
	Parking restrictions
	Suspended parking
	PEG2X_C00 See schedule of works

On Street Parking
 Unrestricted parking - Unrestricted parking (unmarked & without signage)
 Free parking (restricted) - Mon - Fri 9:00am - 5:00pm free parking 30 mins no return within 1 hr
 School keep clear - No stopping Mon - Fri 8:00am - 4:30pm

- 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

Stage
 Phases 1 & 2



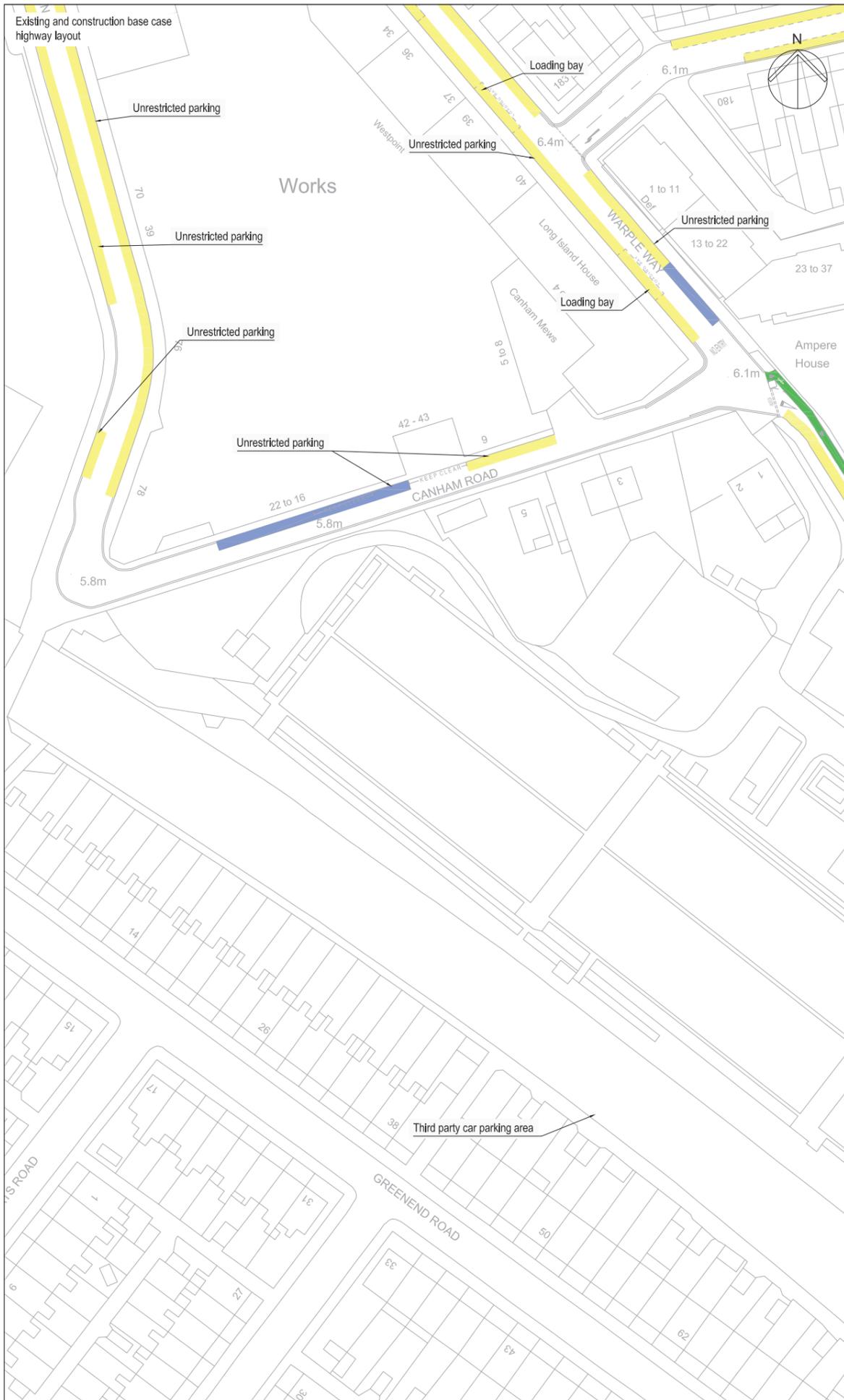
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Location
 Acton Storm Tanks
 London Borough of Ealing

Document Information
 Application for Development Consent
 Highway layout during construction (Area 1)

DCO-PP-02X-ACTST-050022
 January 2013





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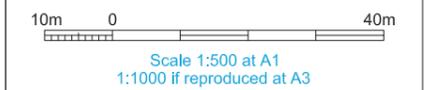
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key	
Existing	
	Parking restrictions
	On street parking
	Cycle lane / advance stop line
Revised	
	Removal of footway
	Illustrative on-site manoeuvring zone
	Suspended parking
	Parking restrictions
	Visibility splay - 2.4m x 43m
	Site hut
	Site hoarding
	Access gate
	Limit of land to be acquired or used (LLAU)
	PEG2X_C00 See schedule of works

On Street Parking
 Unrestricted parking - Unrestricted parking (unmarked & without signage)
 Third party car parking area -
 Loading bay - Loading bay

- 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
 - 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
 Phase 1, Phase 2



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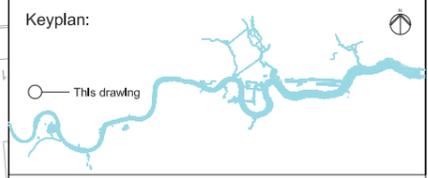
Location
 Acton Storm Tanks
 London Borough of Ealing

Document Information
 Application for Development Consent
 Highway layout during construction (Area 2)

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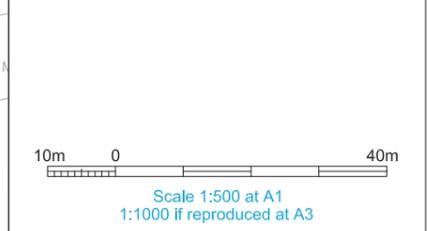
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Key	
Existing	
	Parking restrictions
	On street parking
	Bus stop / stand
	Bus lane
	Pedestrian crossing
	Cycle lane / advance stop line
Revised	
	Parking restrictions
	Reinstated parking
	PEG2X_P01 See schedule of works

On Street Parking
 Unrestricted parking - Unrestricted parking (unmarked & without signage)
 Free parking (restricted) - Mon - Fri 9:00am - 5:00pm free parking
 30 mins no return within 1 hr
 School keep clear - No stopping Mon - Fri 8:00am - 4:30pm
 Loading bay - loading only

- 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, 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

Stage
 Permanent phase

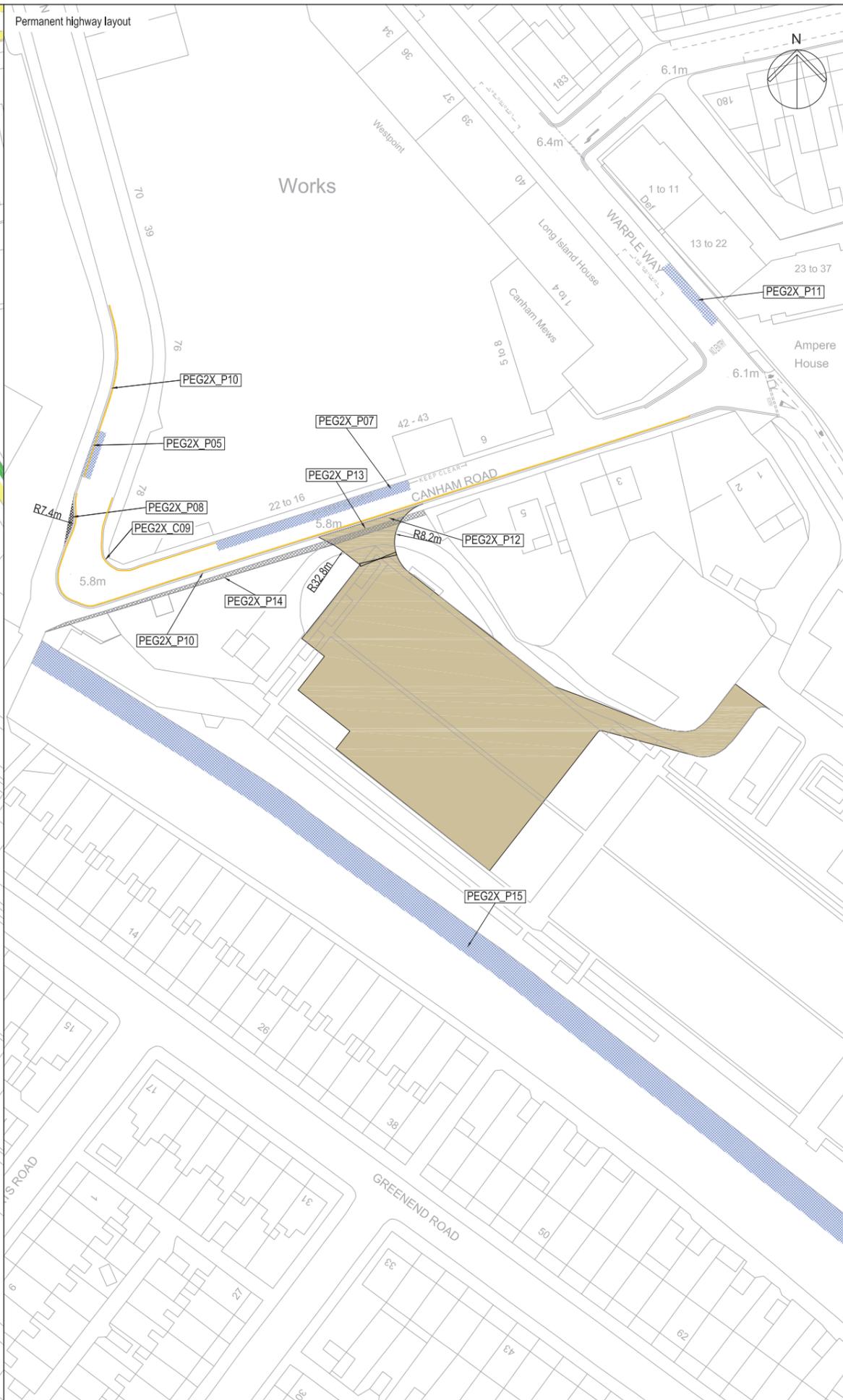
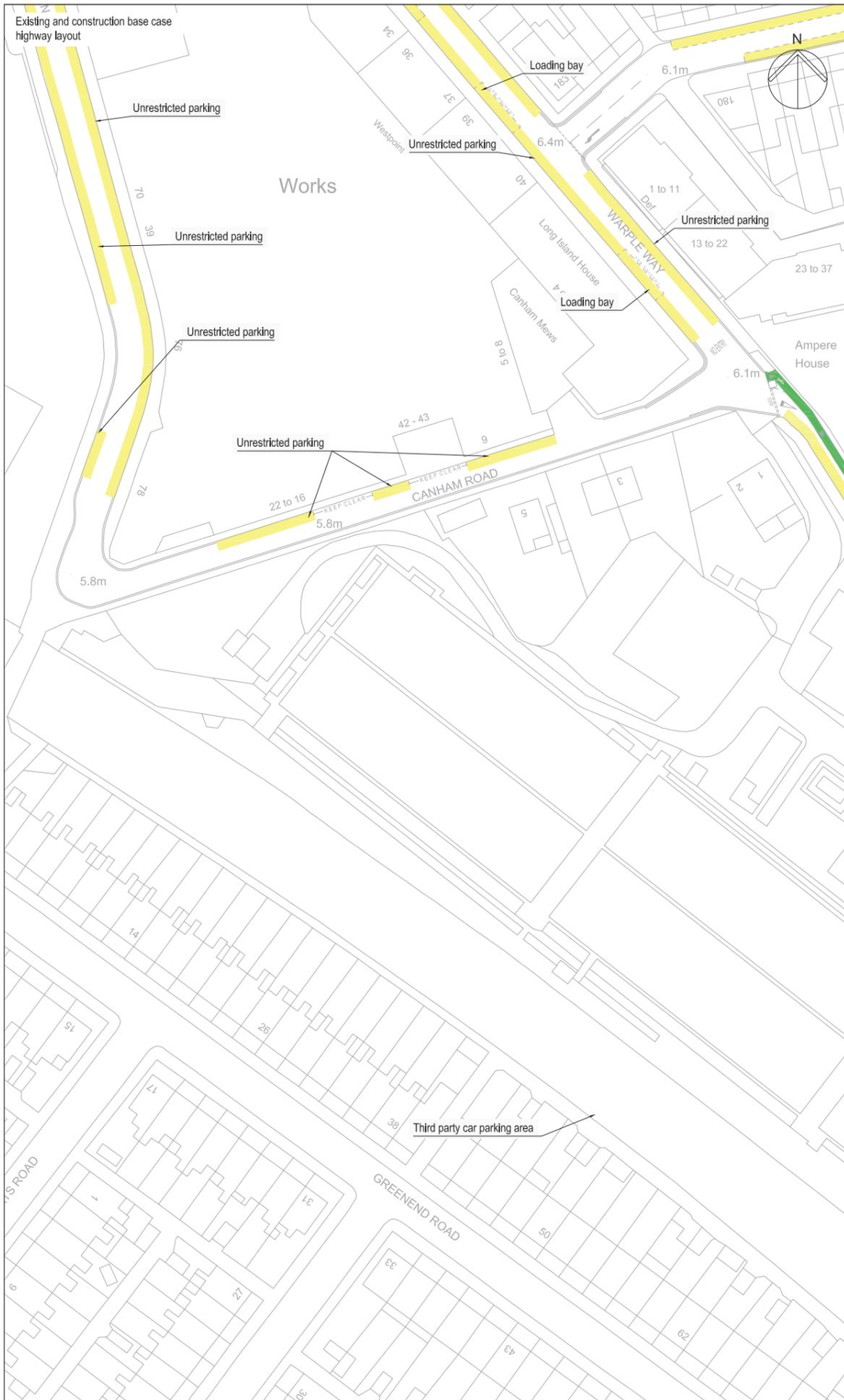


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Location
 Acton Storm Tanks
 London Borough of Ealing

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

DCO-PP-02X-ACTST-050025
 January 2013



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Key	
Existing	
	Parking restrictions
	On street parking
	Cycle lane / advance stop line
Revised	
	Removal of footway
	Reinstated footway
	Illustrative on-site manoeuvring zone
	Reinstated parking
	Footway extension
	Parking restrictions
	Access gate
	PEG2X_P00 See schedule of works

On Street Parking
 Unrestricted parking - Unrestricted parking (unmarked & without signage)
 Third party car parking area -
 Loading bay - loading bay

- 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, Clnt, 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
 Permanent phase



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Location
Action Storm Tanks
 London Borough of Ealing

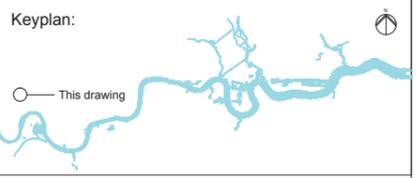
Document Information
Application for Development Consent
 Permanent highway layout - Area 2 work

DCO-PP-02X-ACTST-050026
 January 2013





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- Key**
- Existing
- Parking restrictions
 - On street parking
 - Cycle lane / advance stop line
- Revised
- Reinstated footway
 - Reinstated parking

On Street Parking

Shared use - Zone I permit holders or pay & display max stay 8 hrs Mon - Fri 9:00am - 5:00pm
 Resident permit holders (Zone I) - Permit holders only Mon - Fri 9:00am - 5:00pm
 Pay & display (Zone I) - Pay & display only Mon - Fri 9:00am - 5:00pm
 Unrestricted parking - Unrestricted parking (unmarked & without signage)
 Third party car parking area -

- 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

Stage
Permanent phase



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Location
Action Storm Tanks
London Borough of Ealing

Document Information
Application for Development Consent
Permanent highway layout - Area 3 work

DCO-PP-02X-ACTST-050027
January 2013



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Thames Water Utilities Limited

Clearwater Court, Vastern Road, Reading RG1 8DB

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