

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: **2.07**

Barn Elms

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

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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

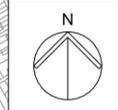
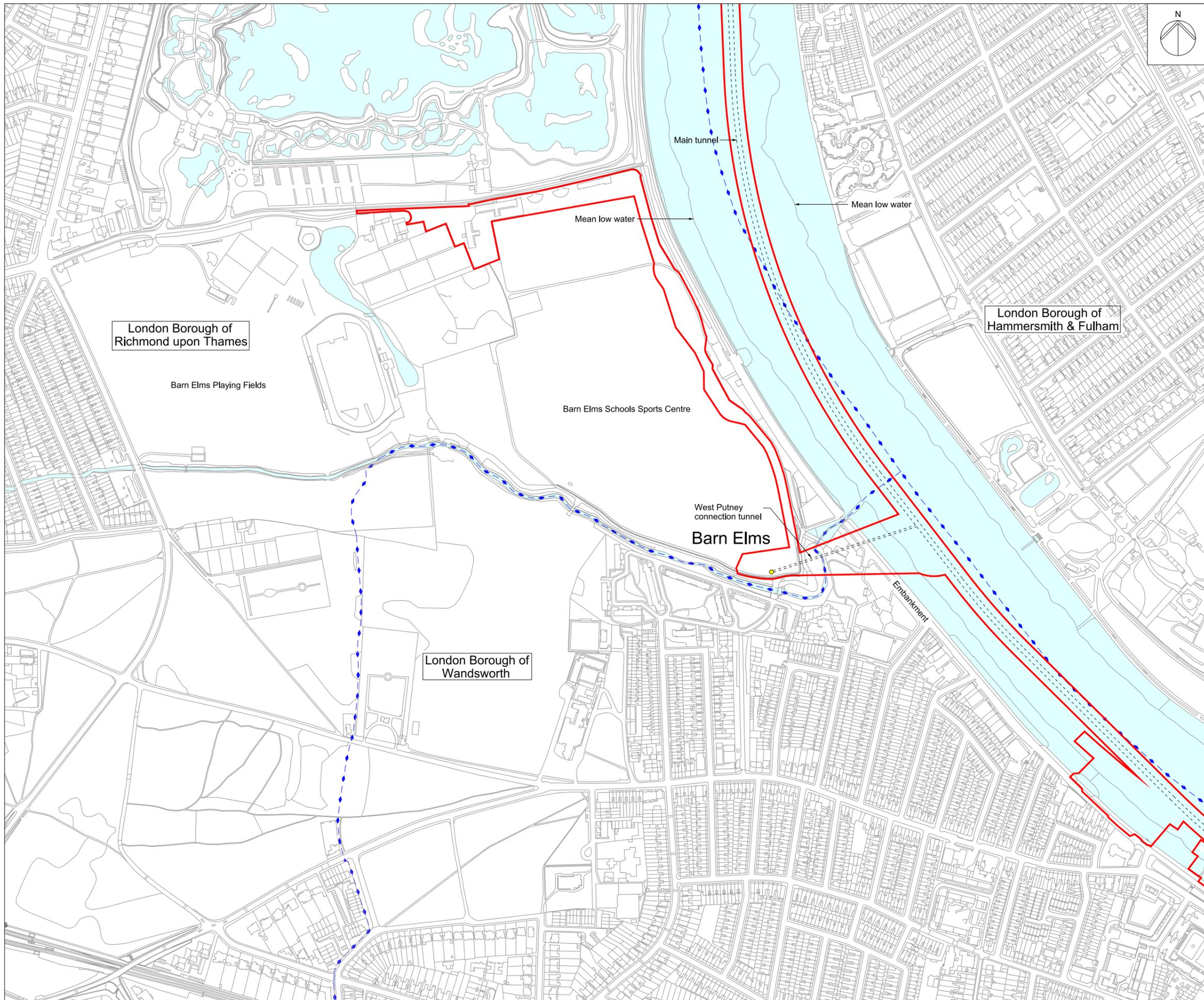
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Volume 2

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Permanent highway layout - Area 1 work*		DCO-PP-04X-BAREL-070026

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



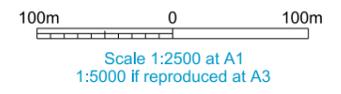
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

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



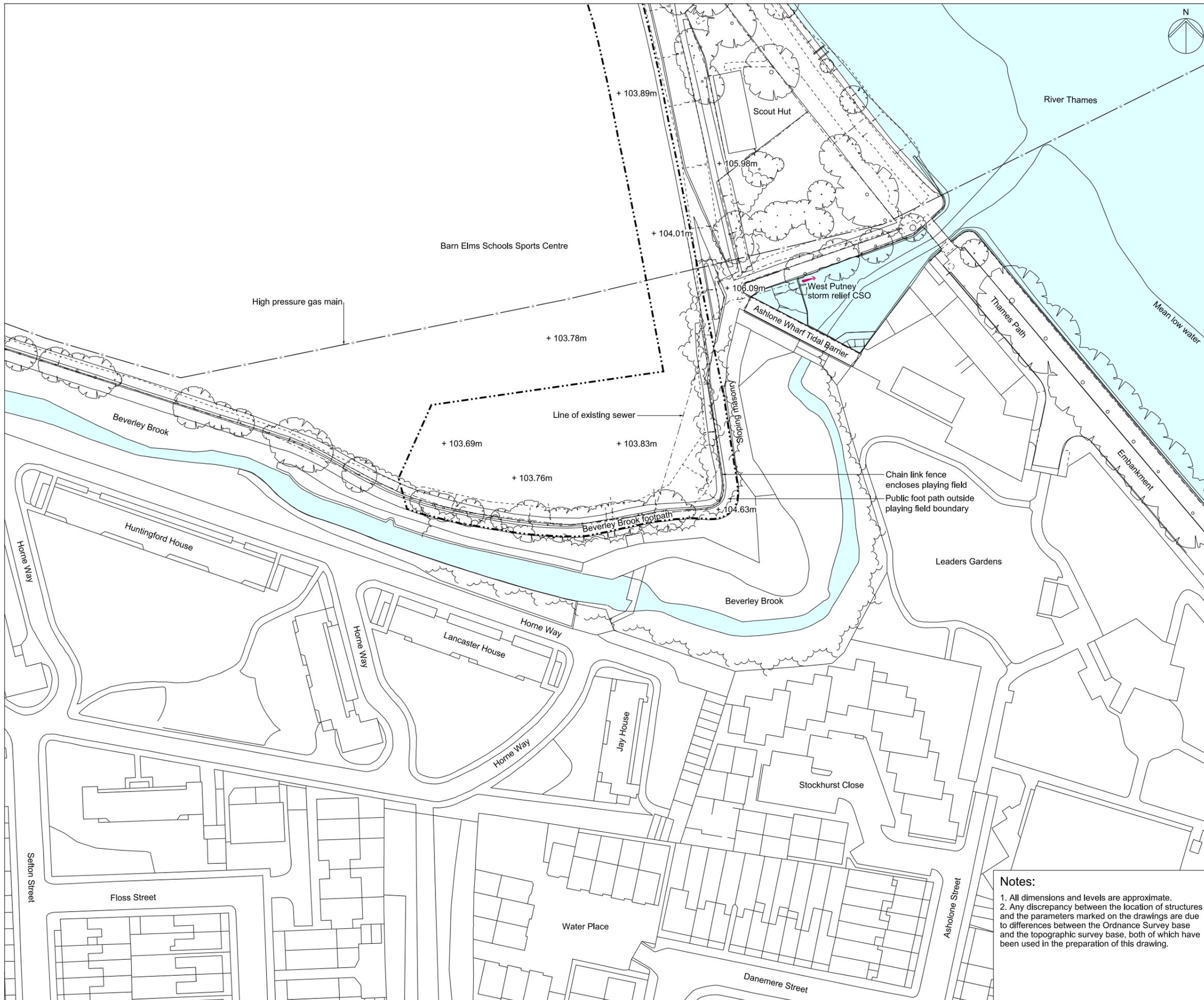
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Location
Barn Elms
 London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
 Location plan

Book of plans - section 7
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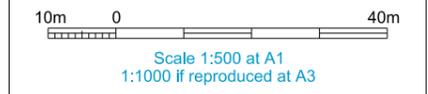


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- 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)
 - Approximate position of CSO outlet



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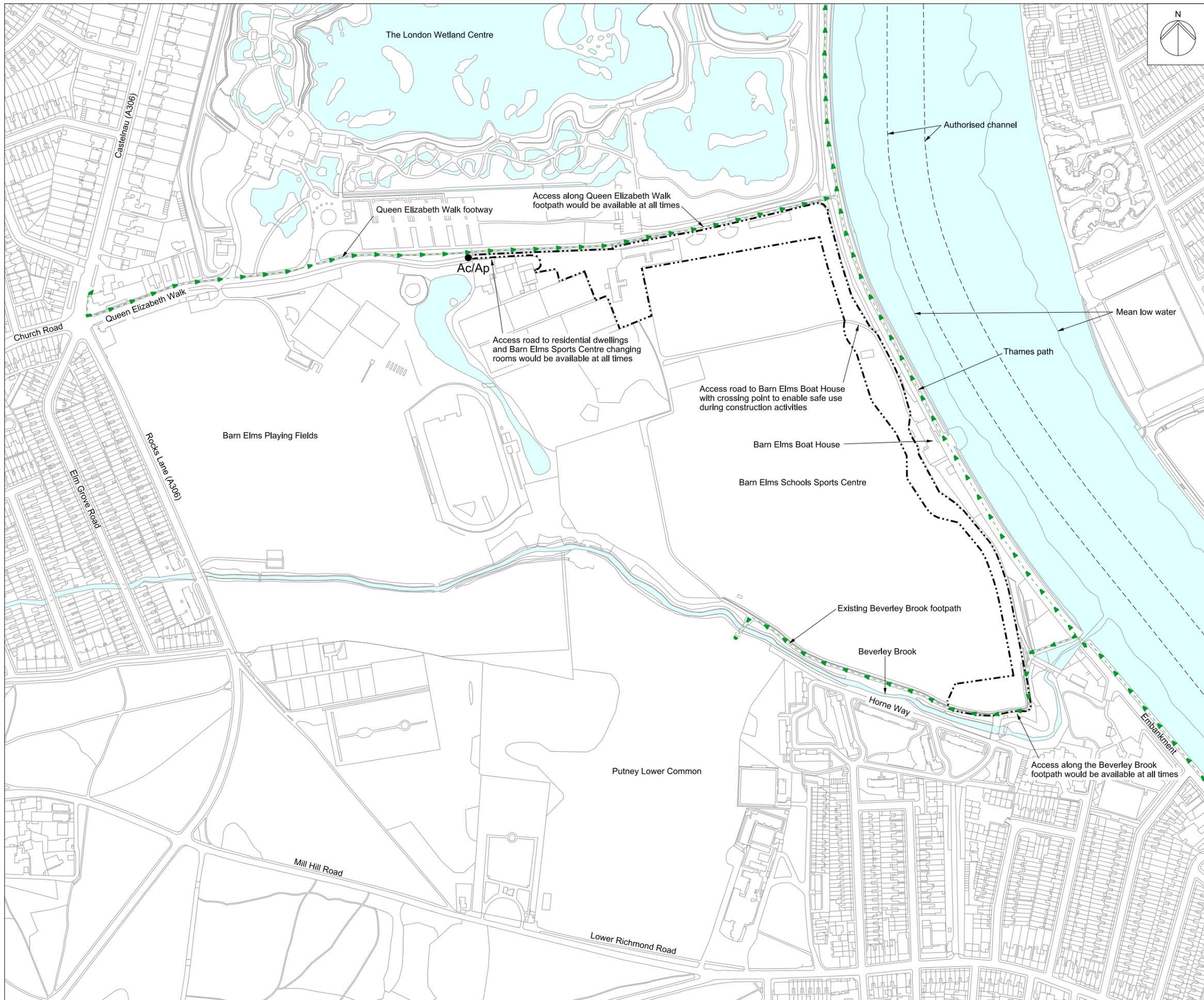
Location
Barn Elms
London Borough of Richmond Upon Thames

Document Information
Application for Development Consent

As existing
Site features plan
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January 2013

- 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.





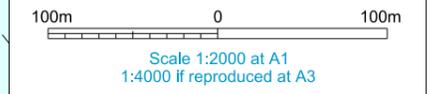
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing public right of way
 - Ap ● Access to permanent works
 - Ac ● Access to construction works

- 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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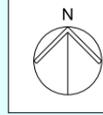
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 London Borough of Richmond Upon Thames

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 Access plan

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Matchline: Sheet 2



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Keyplan:



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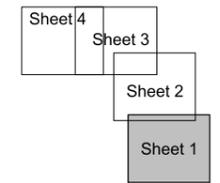
Key:

-  Limits of land to be acquired or used (LLAU)
-  Trees to be pruned

Notes:

1. Temporary construction access route to be enclosed on both sides by secure fencing approximately 2.4m high.
2. Demolition and site clearance shown for construction access only.
3. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
4. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.

Sheet Layout

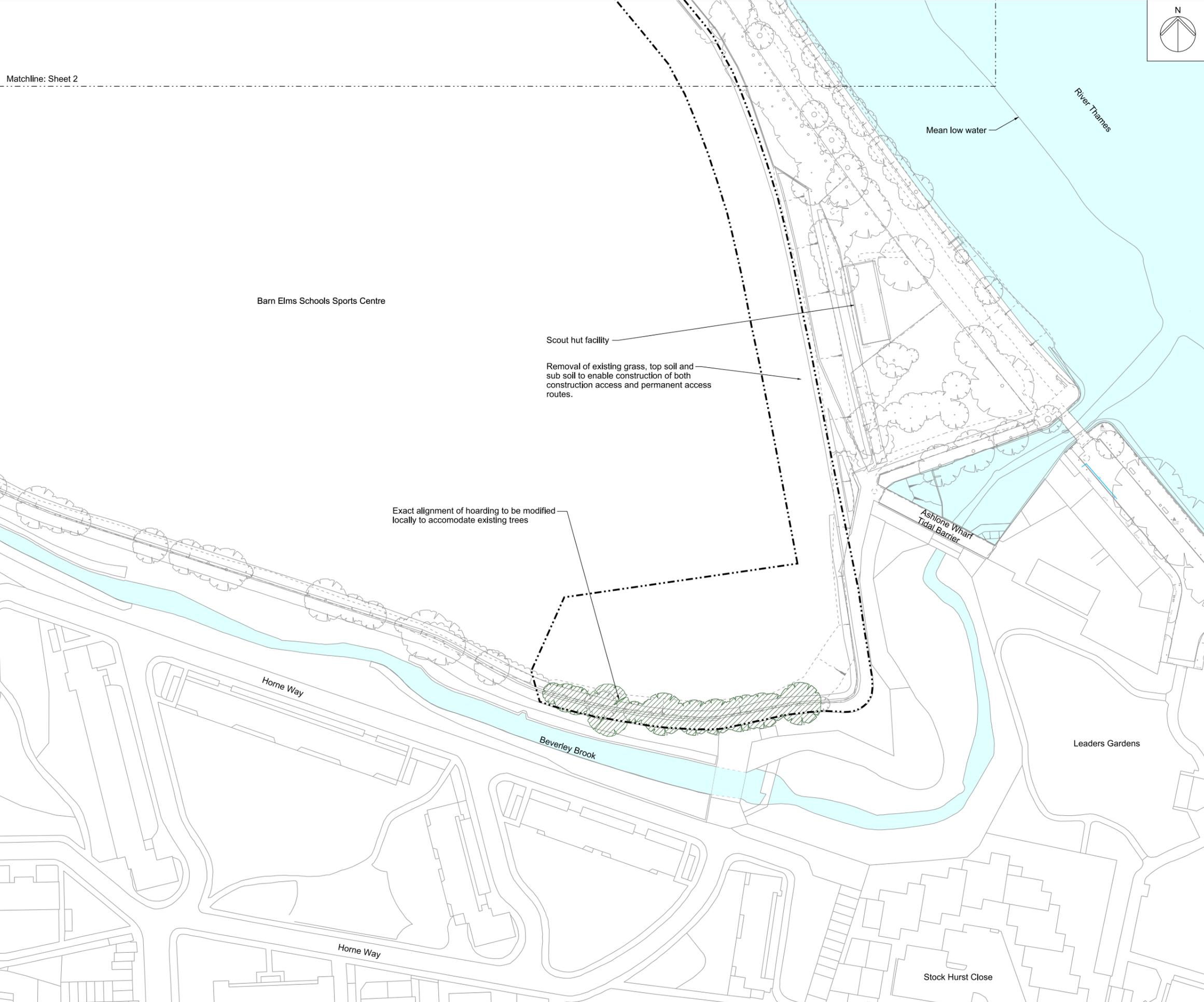


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Demolition and site clearance
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Barn Elms Schools Sports Centre

Scout hut facility

Removal of existing grass, top soil and sub soil to enable construction of both construction access and permanent access routes.

Exact alignment of hoarding to be modified locally to accommodate existing trees

Mean low water
River Thames

Ashlone Wharf
Tidal Barrier

Home Way

Beverley Brook

Leaders Gardens

Stock Hurst Close



Matchline: Sheet 3

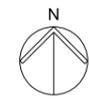
Removal of existing grass, top soil and sub soil to enable construction of both construction access and permanent access routes.

Barn Elms Schools Sports Centre

Barn Elms Boat House

Mean low water

Matchline: Sheet 1



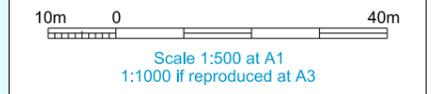
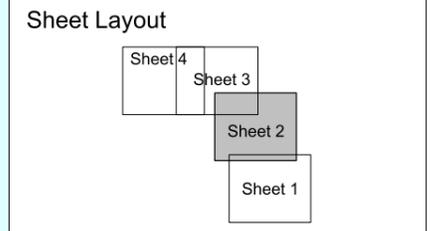
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Trees to be pruned

- Notes:**
1. Temporary construction access route to be enclosed on both sides by secure fencing approximately 2.4m high.
 2. Demolition and site clearance shown for construction access only.
 3. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 4. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.

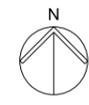
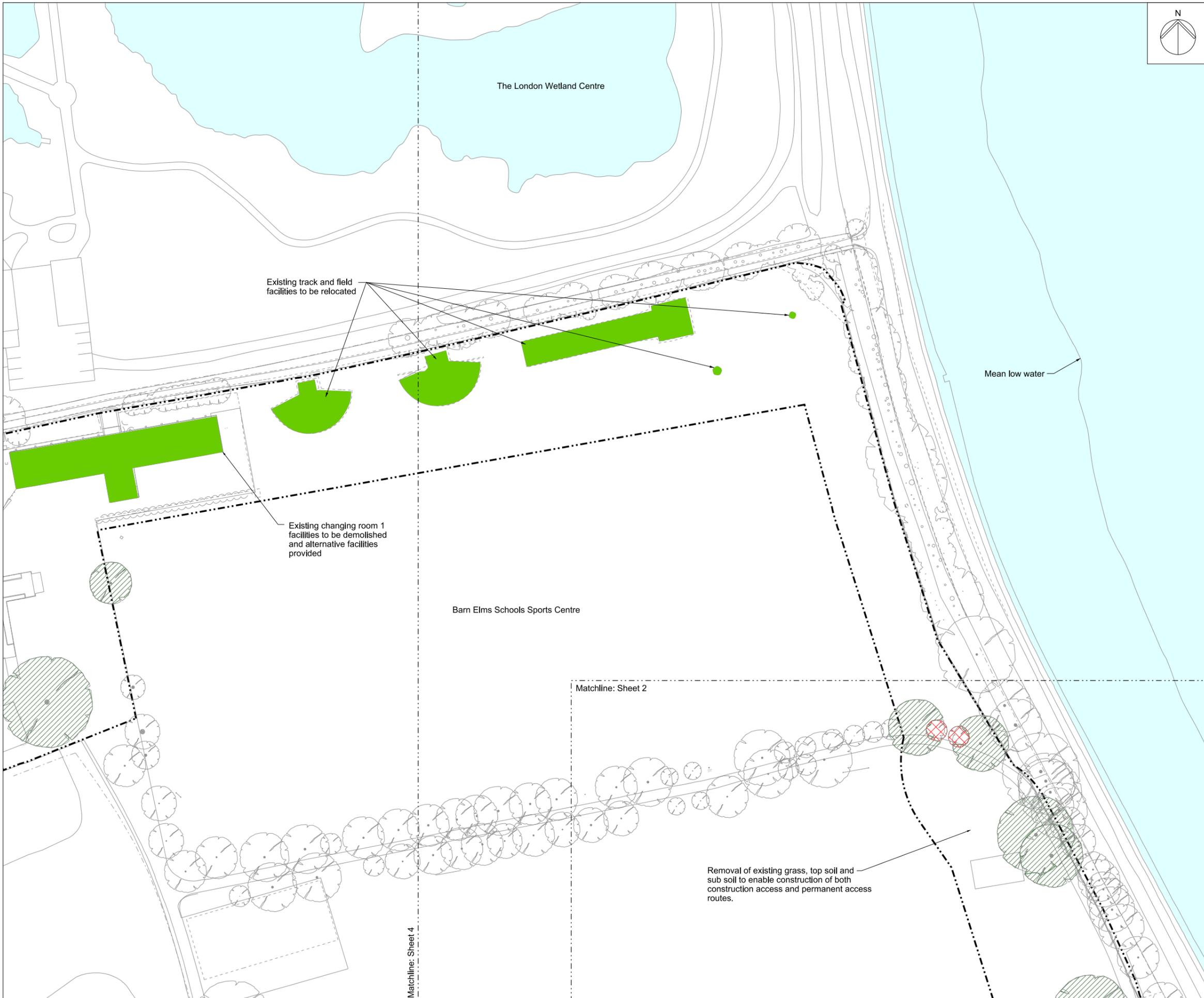


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Location
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 London Borough of Richmond Upon Thames

Document Information
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 Demolition and site clearance
 Sheet 2 of 4
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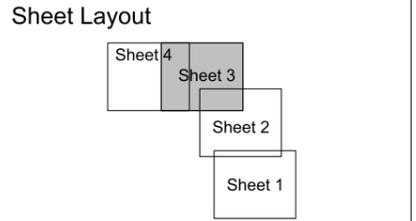
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Trees to be pruned
 - Structure to be removed and relocated or reinstated

- Notes:**
1. Temporary construction access route to be enclosed on both sides by secure fencing approximately 2.4m high.
 2. Demolition and site clearance shown for construction access only.
 3. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 4. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.

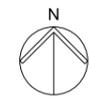
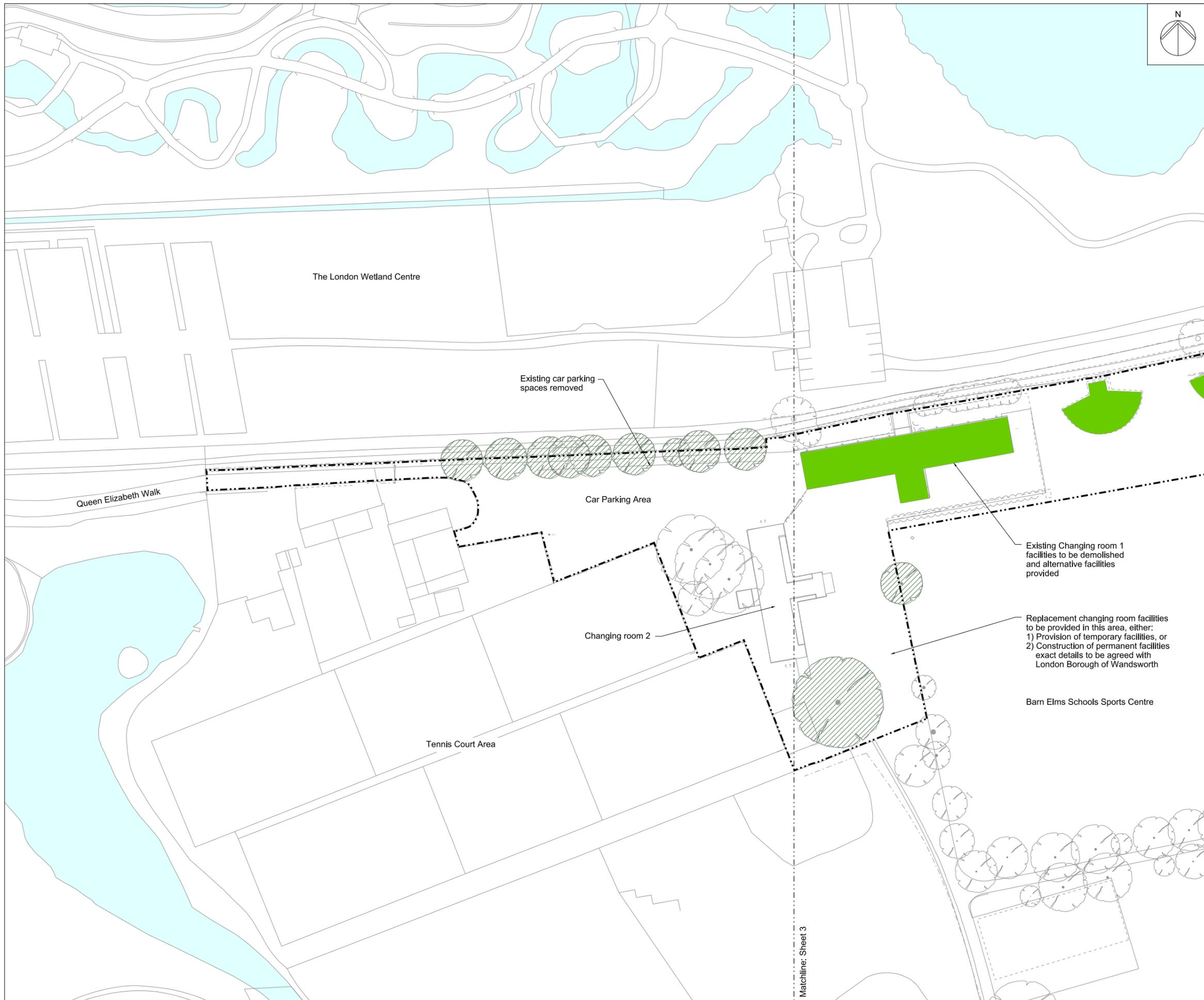


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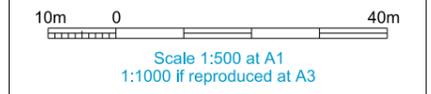
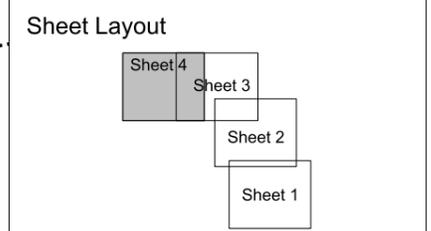
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be pruned
 - Structure to be removed and relocated or reinstated

- Notes:**
1. Temporary construction access route to be enclosed on both sides by secure fencing approximately 2.4m high.
 2. Demolition and site clearance shown for construction access only.
 3. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 4. 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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 Sheet 4 of 4
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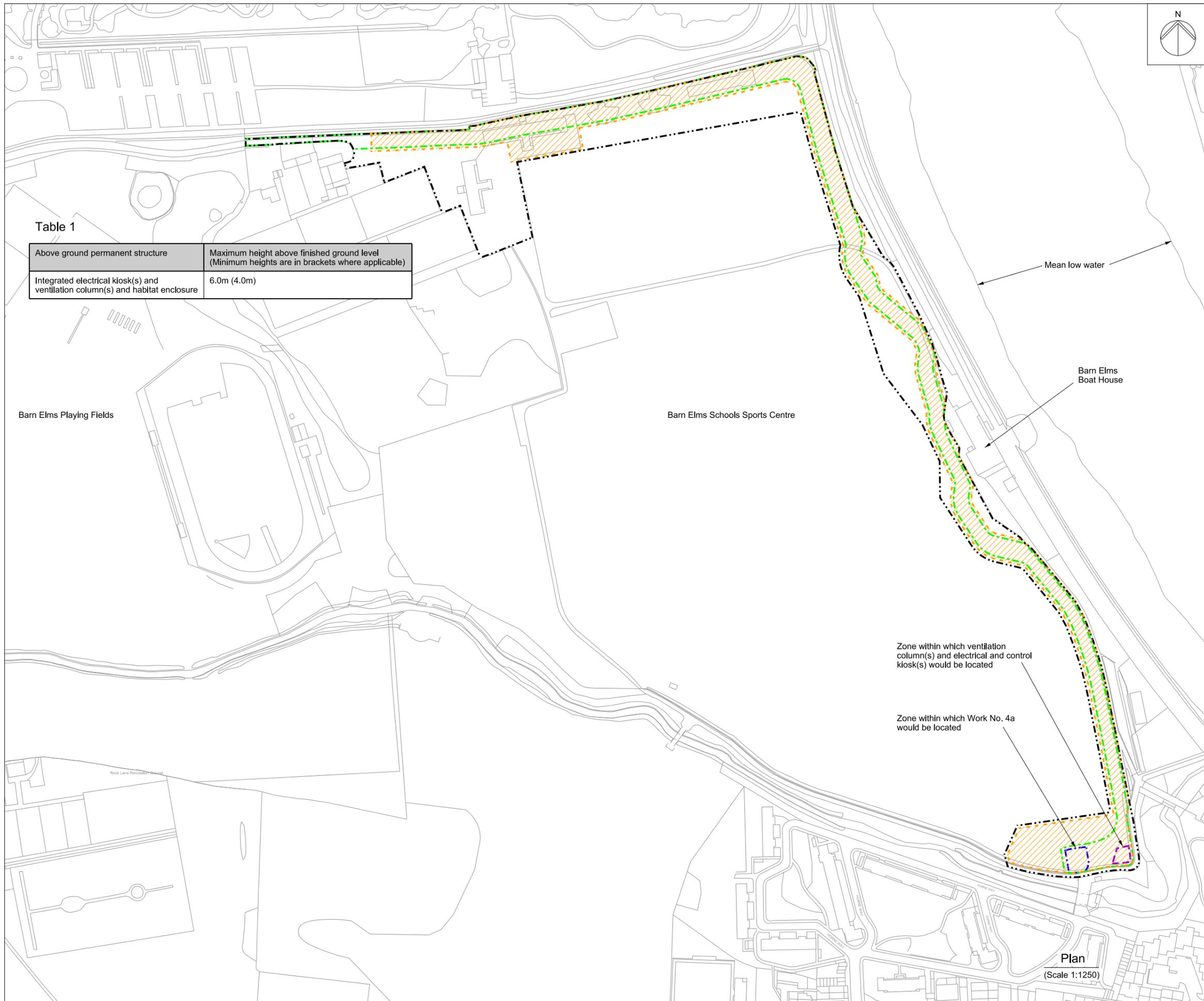


Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Integrated electrical kiosk(s) and ventilation column(s) and habitat enclosure	6.0m (4.0m)

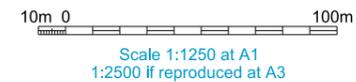
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - Zone within which all permanent site structures would be located
 - - - Zone within which the shaft would be located
 - - - Zone within which permanent above ground structures would be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

- Notes:**
- All dimensions and levels are approximate.
 - The Site Works Parameter Key Plan identifies each zone independently.
 - 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.



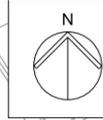
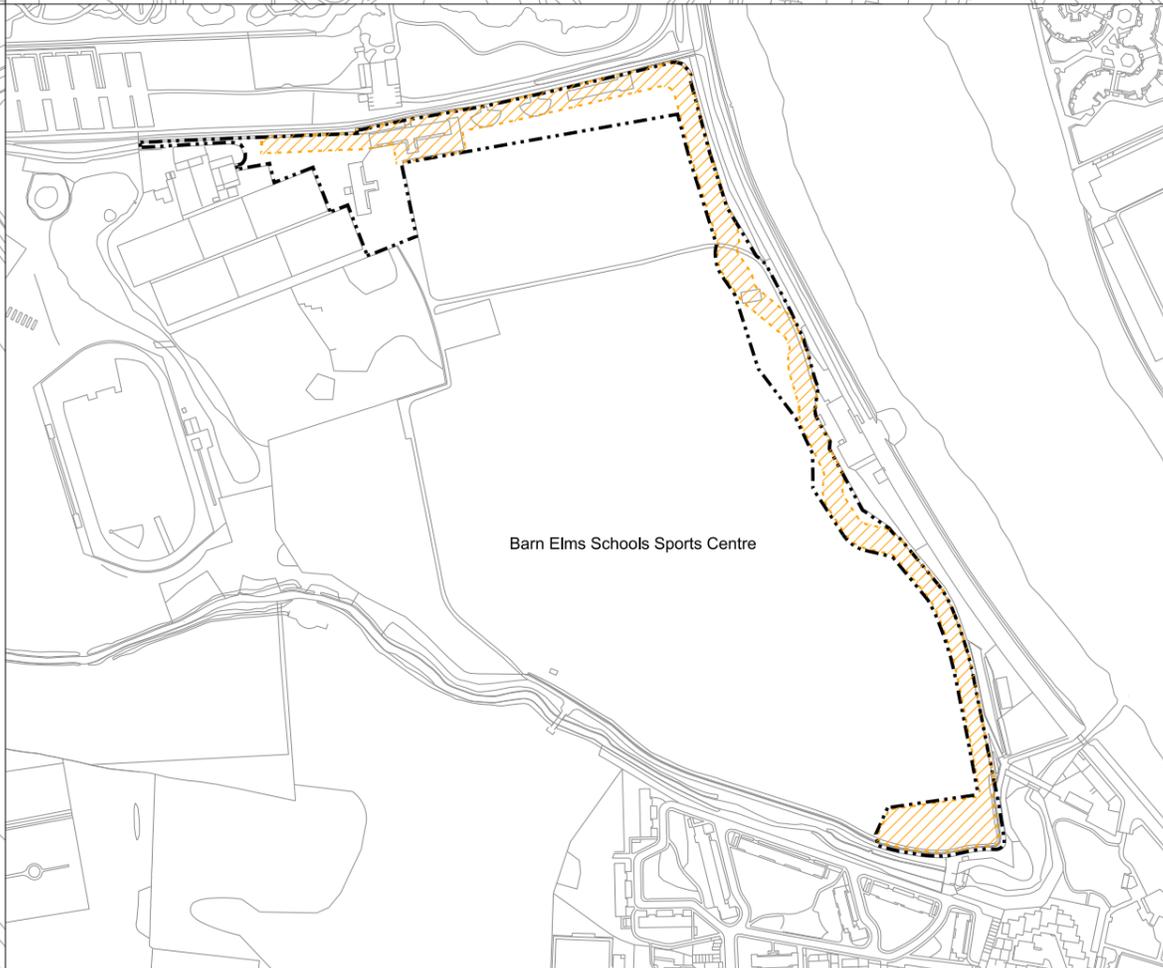
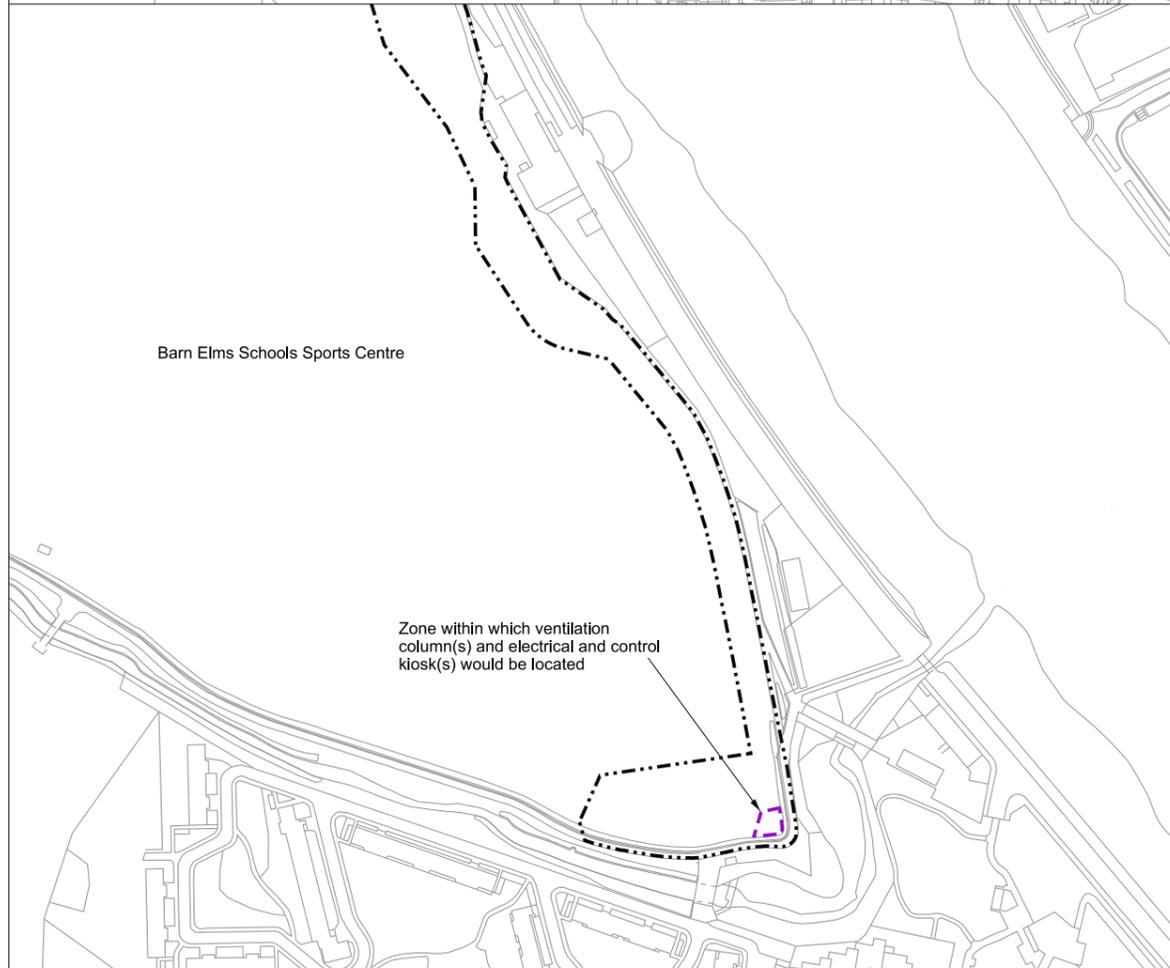
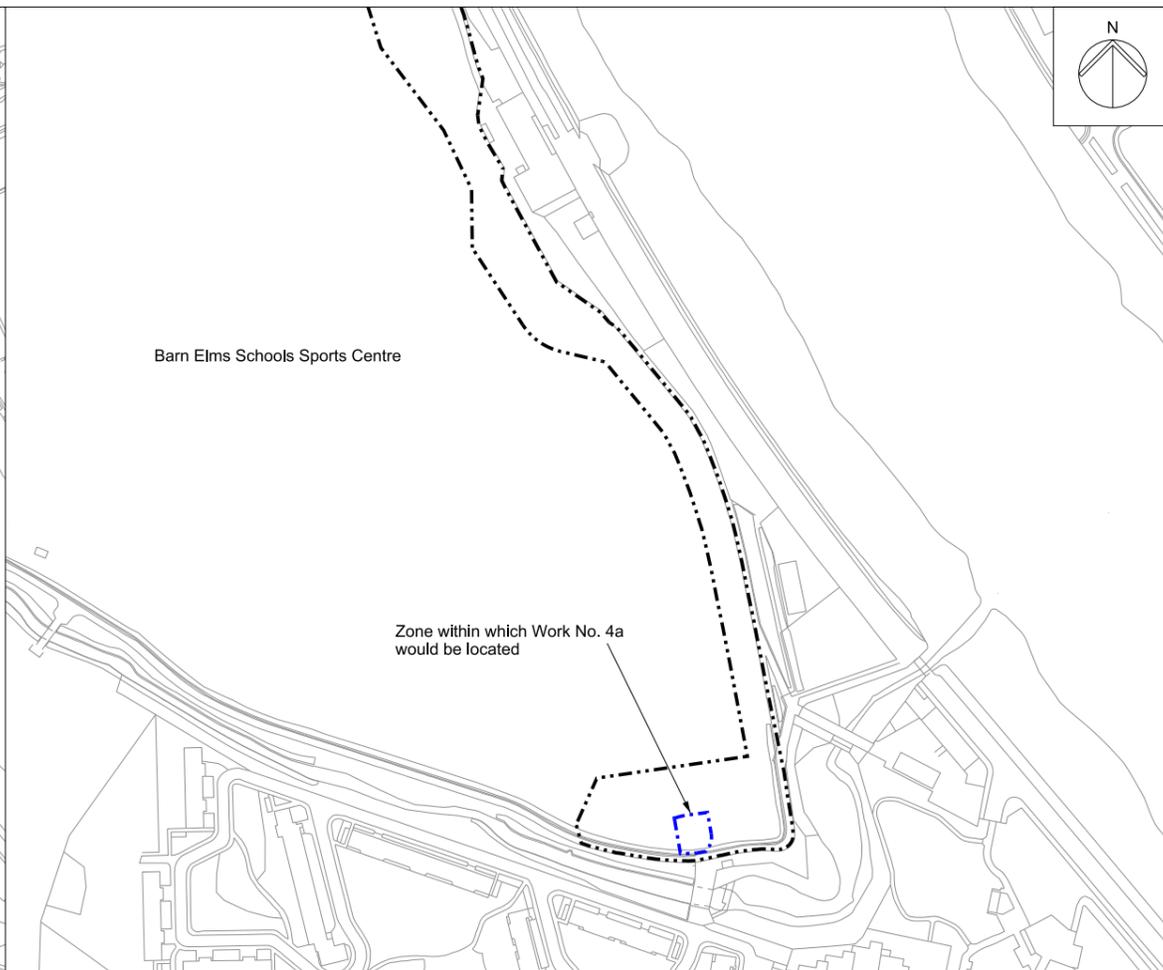
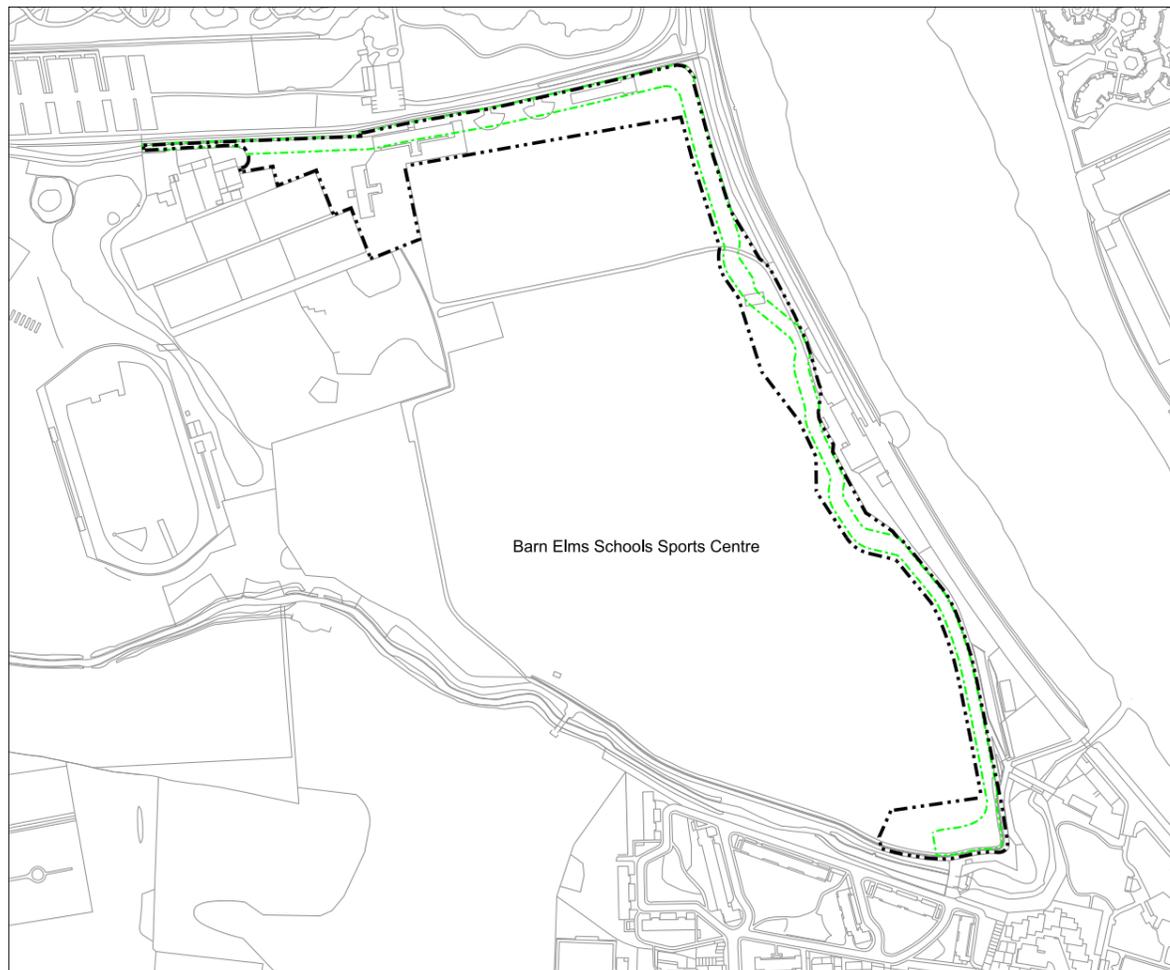
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Location
Barn Elms
 London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
 Site works parameter plan

Book of plans - section 7
 DCO-PP-04X-BAREL-070008
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Keyplan:



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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
-  Limits of permanent access
-  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.

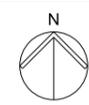
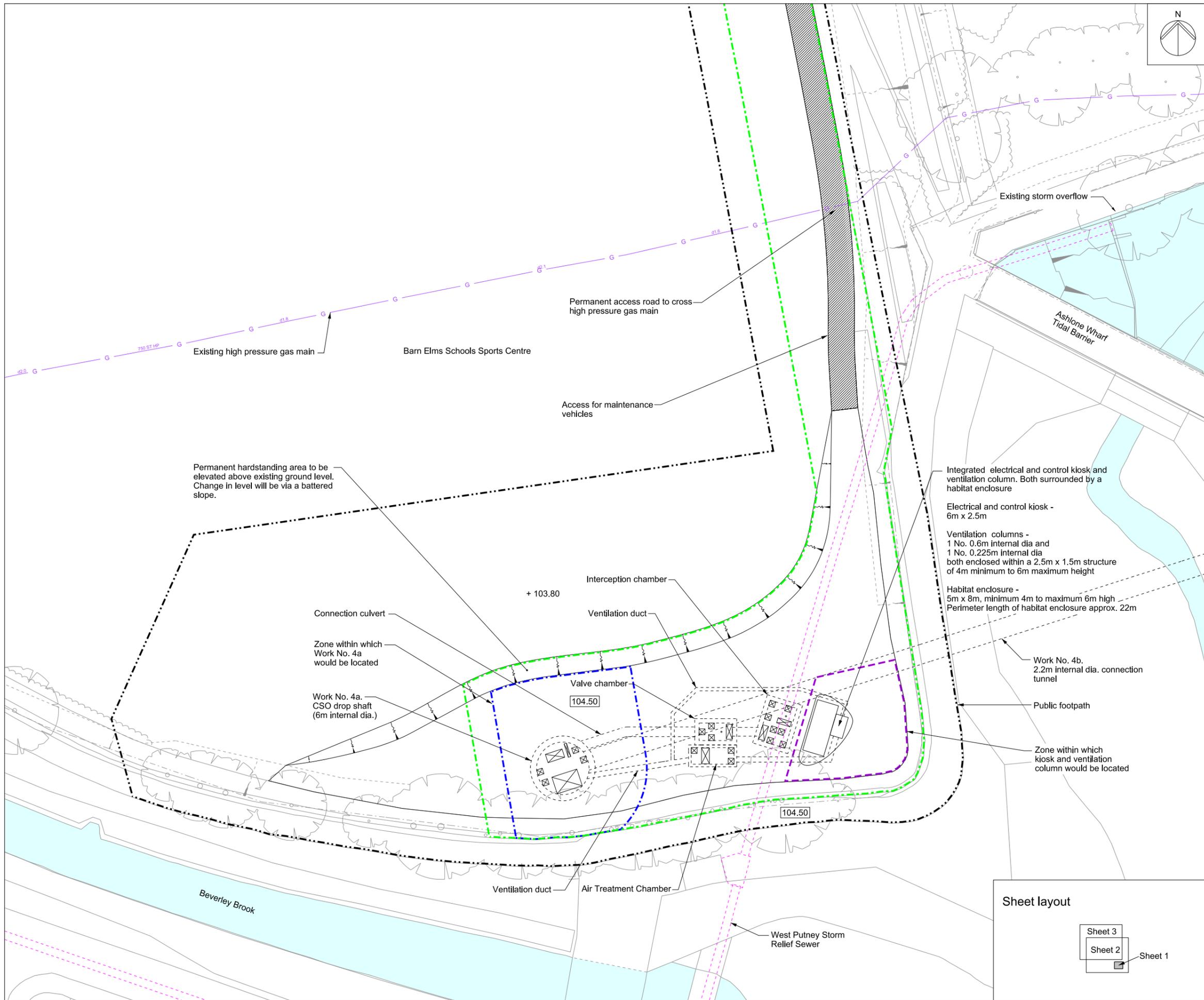
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Location
Barn Elms
 London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
 Site works parameter key plan

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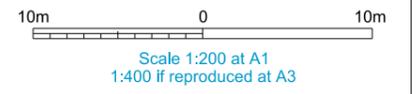
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - Proposed access cover
 - + 105.40m Existing level (shown in metres above tunnel datum)
 - 105.40 Proposed levels (shown in metres above tunnel datum)
 - Zone within which 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
 - New access route

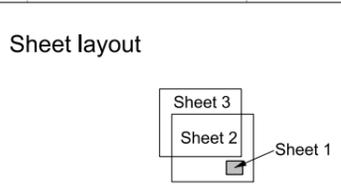
- Notes:**
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 3. This drawing shows permanent site structures only. Landscaping hard works and soft works are shown on the Proposed landscape plan and/or Proposed site features plan.

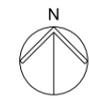
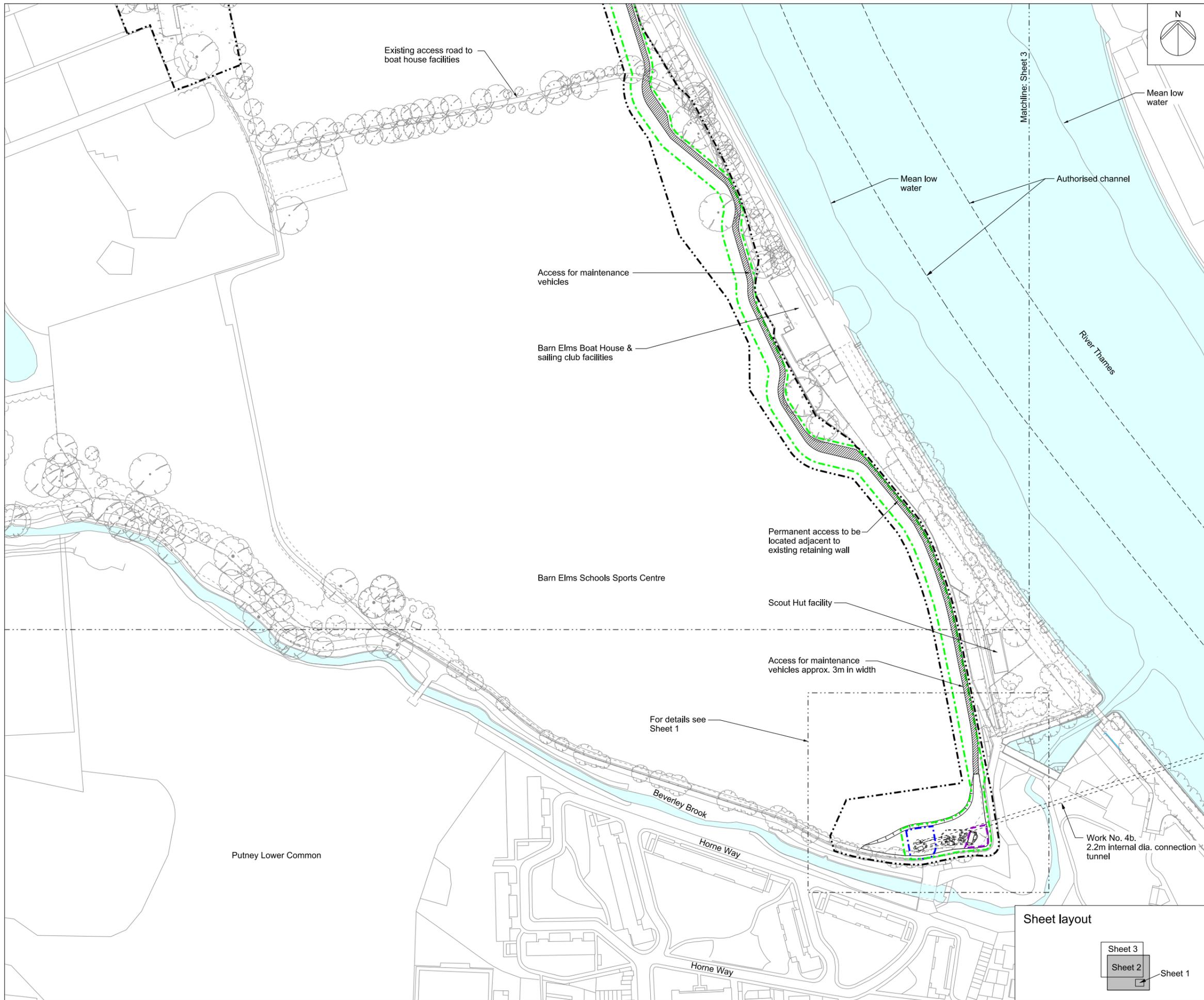


ILLUSTRATIVE

Location
Barn Elms
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 Permanent works layout
 Sheet 1 of 3
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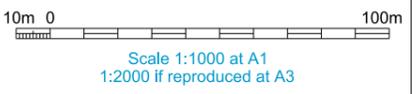


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

	Limits of land to be acquired or used (LLAU)
	Existing sewers
	Proposed access cover
+ 105.40m	Existing level (shown in metres above tunnel datum)
	Proposed levels (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
	New access route

- 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.
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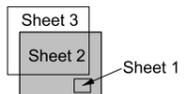
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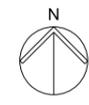
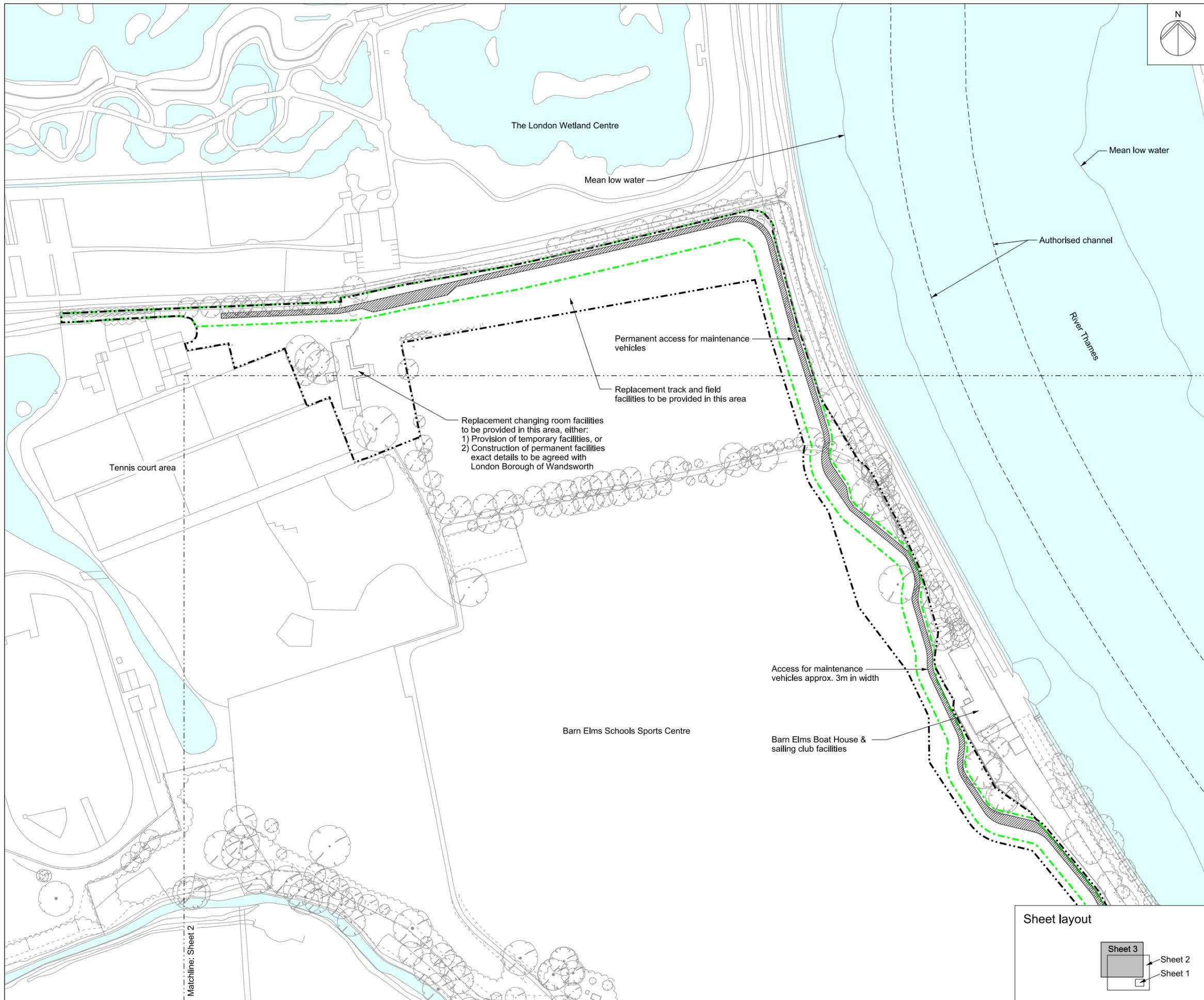
Location
Barn Elms
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Sheet layout





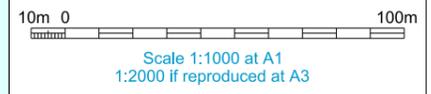
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - ⊞ Proposed access cover
 - + 105.40m Existing level (shown in metres above tunnel datum)
 - 105.40 Proposed levels (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
 - Limits of permanent access
 - ▨ New access route

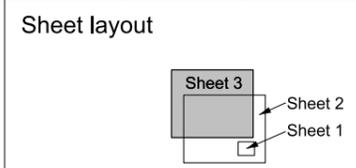
- Notes:**
1. All dimensions and levels are approximate.
 2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and topographical survey base, both of which have been used in the preparation of this drawing.
 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.



ILLUSTRATIVE

Location
Barn Elms
 London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
 Permanent works layout
 Sheet 3 of 3
 Book of plans - section 7
 DCO-PP-04X-BAREL-070012
 January 2013

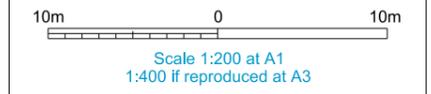


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - Zone within which permanent above ground structures would be located
 - - - Zone within which required landscaping would be located
 - Maximum extent of foreshore structure
 - - - Authorised channel
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - 105.40 Proposed levels (shown in metres above tunnel datum)
 - Consented development footprint (by others)
 - Listed buildings/structures
 - Approximate position of CSO outlet
 - Existing trees within surveyed area (trunk sizes vary)
 - Proposed trees
 - Thames Water access

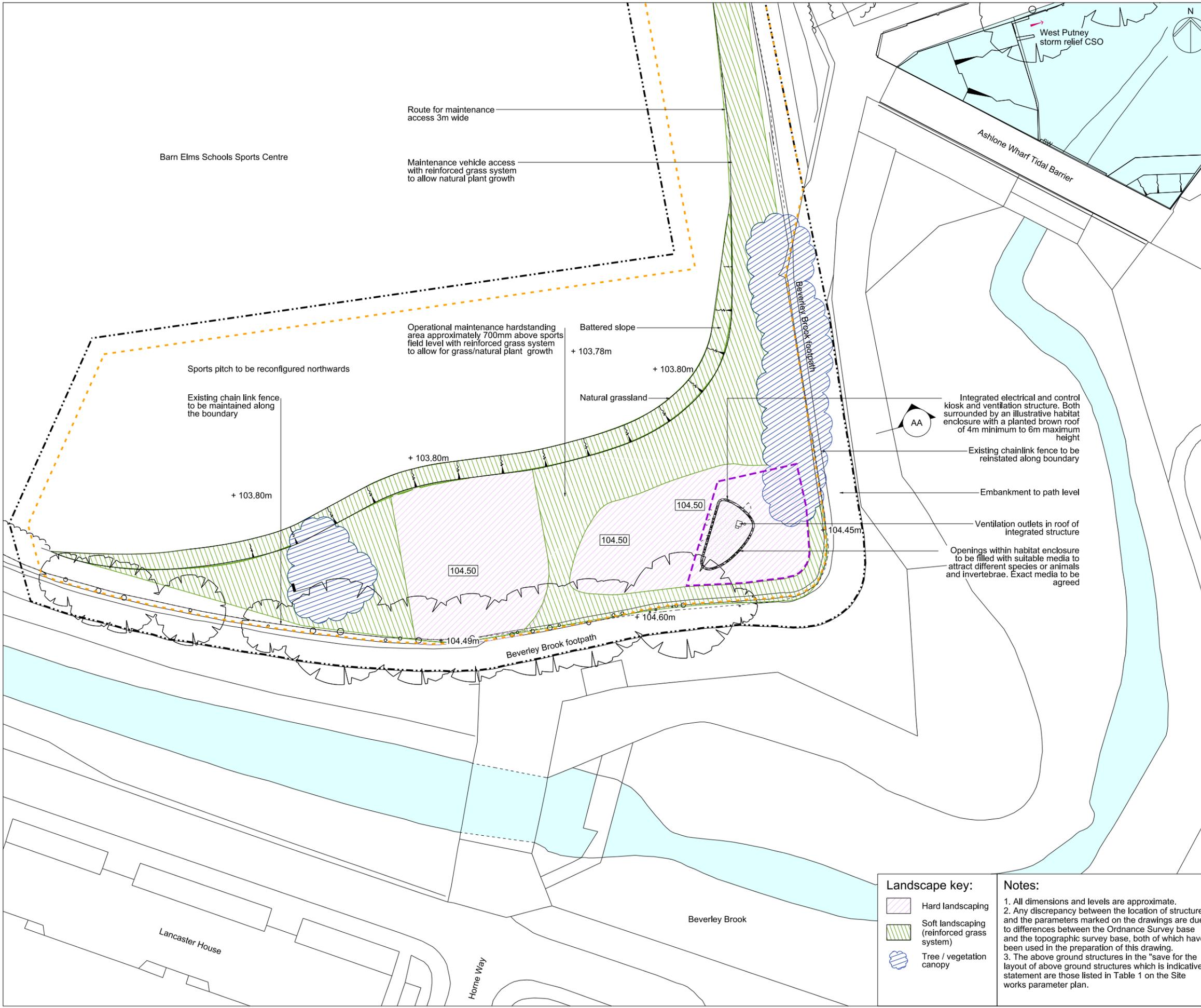


INDICATIVE
Save for layout of above ground structures which is illustrative

Location
Barn Elms
London Borough of Richmond Upon Thames

Document Information
Application for Development Consent

Proposed Landscape plan
Book of plans - section 7
DCO-PP-04X-BAREL-070013
January 2013



- 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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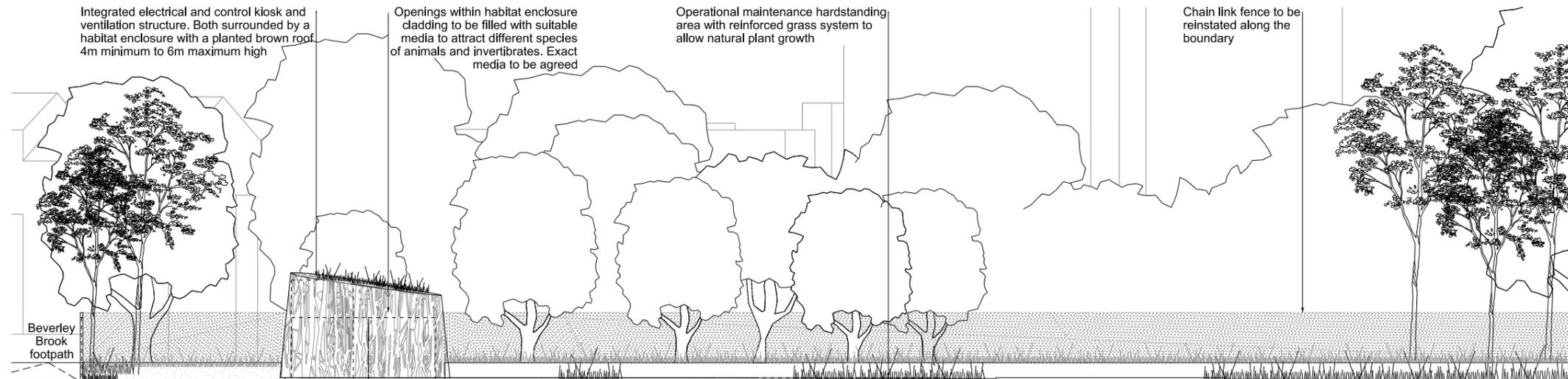
Keyplan:



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.

Notes:

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



Interception chamber

Valve chamber

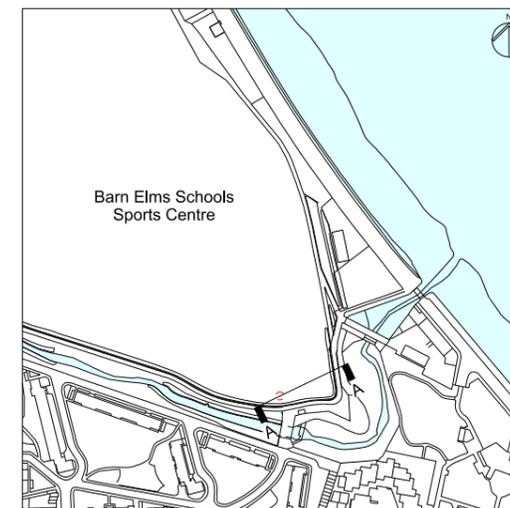
CSO drop shaft

Connection tunnel to main tunnel



Scale 1:100 at A1
1:200 if reproduced at A3

Section AA



ILLUSTRATIVE

Location
Barn Elms
London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
Section AA

Book of plans - section 7
DCO-PP-04X-BAREL-070014
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



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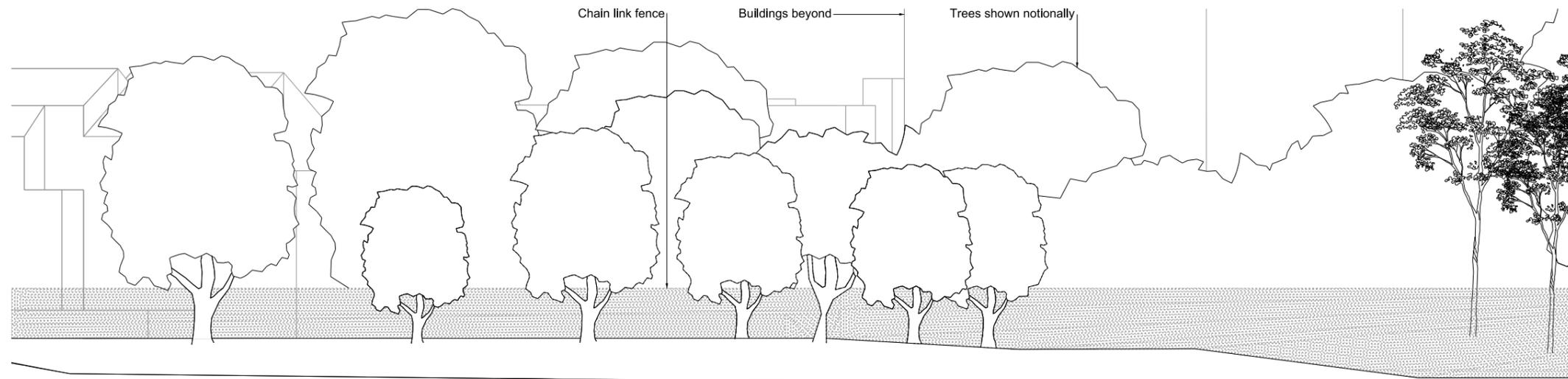
Keyplan:



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.

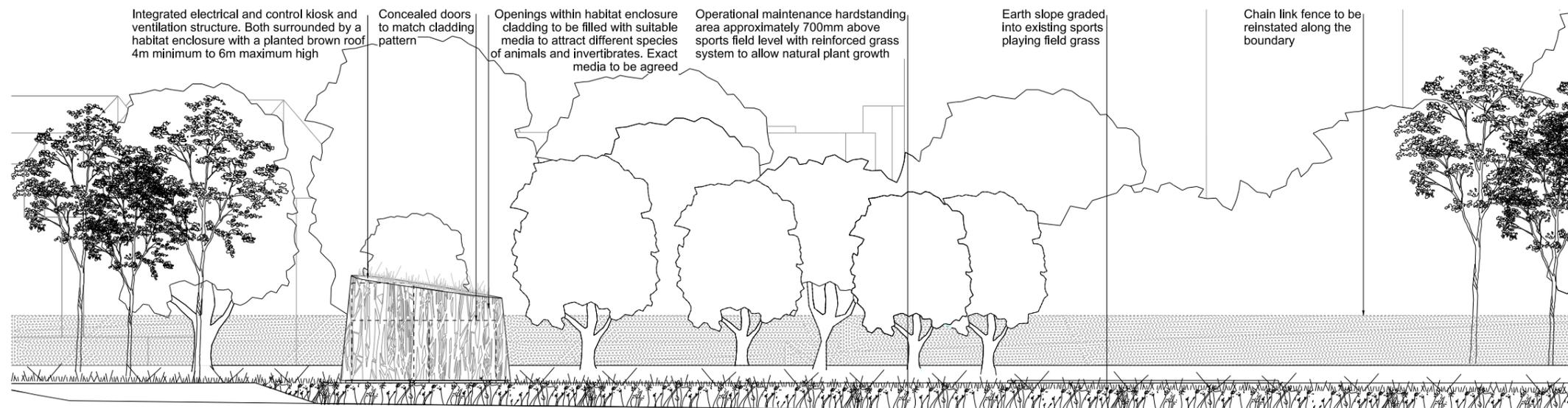
Notes:

1. All dimensions and levels are approximate.



Barn Elms Schools Sports Centre

As existing North elevation



Integrated electrical and control kiosk and ventilation structure. Both surrounded by a habitat enclosure with a planted brown roof 4m minimum to 6m maximum high

Concealed doors to match cladding pattern

Openings within habitat enclosure cladding to be filled with suitable media to attract different species of animals and invertibrates. Exact media to be agreed

Operational maintenance hardstanding area approximately 700mm above sports field level with reinforced grass system to allow natural plant growth

Earth slope graded into existing sports playing field grass

Chain link fence to be reinstated along the boundary

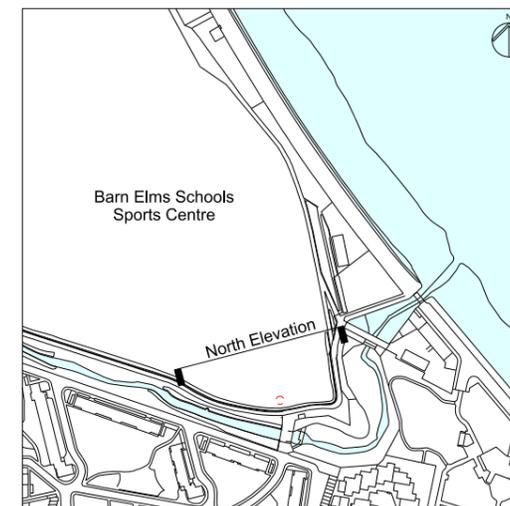
Electrical and control kiosk/ventilation structure/habitat enclosure

Operational maintenance hardstanding area



Scale 1:100 at A1
1:200 if reproduced at A3

Proposed North elevation



ILLUSTRATIVE

Location
Barn Elms
London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
As existing and proposed
North elevation
Book of plans - section 7
DCO-PP-04X-BAREL-070015
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



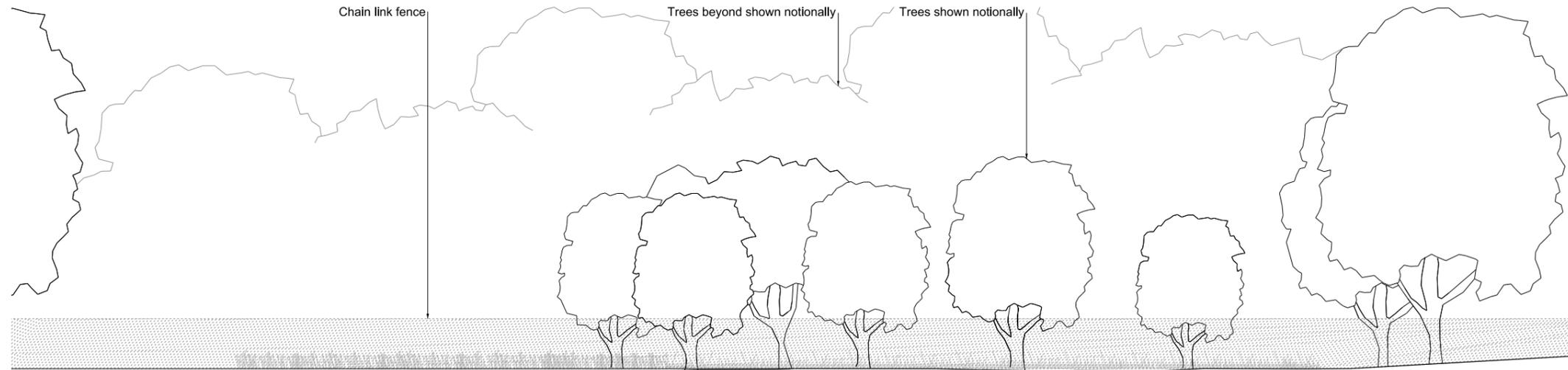
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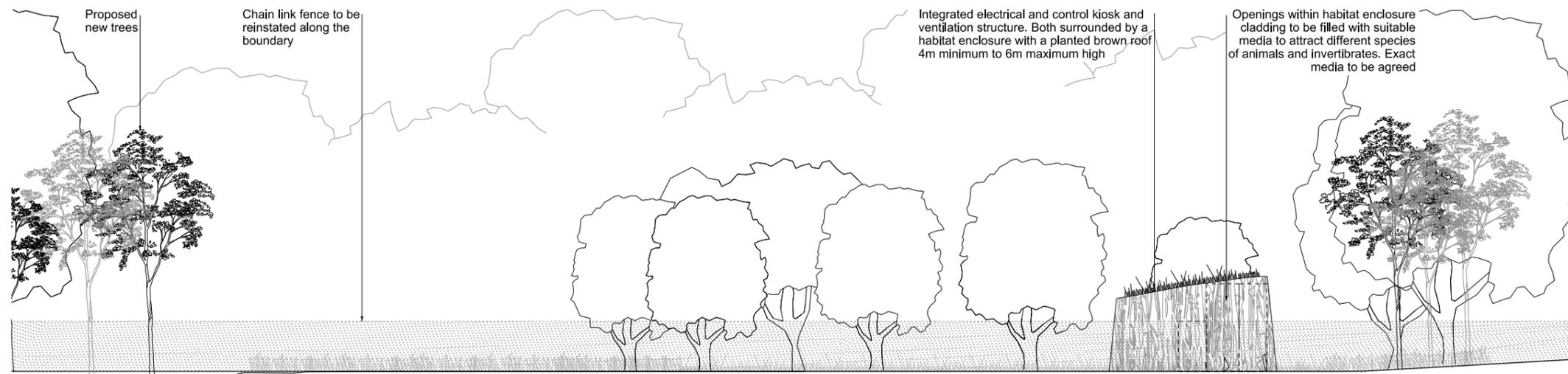
Notes:

1. All dimensions and levels are approximate.

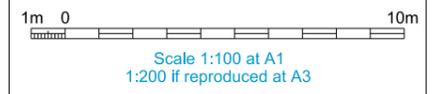


Beverley Brook Barn Elms Schools Sports Centre

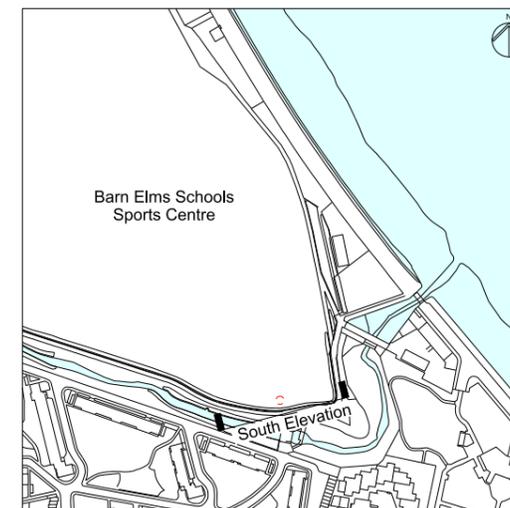
As existing South elevation



Operational maintenance hardstanding area Electrical and control kiosk/ventilation structure/habitat enclosure



Proposed South elevation



ILLUSTRATIVE

Location
Barn Elms
London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
As existing and proposed
South elevation
Book of plans - section 7
DCO-PP-04X-BAREL-070016
January 2013

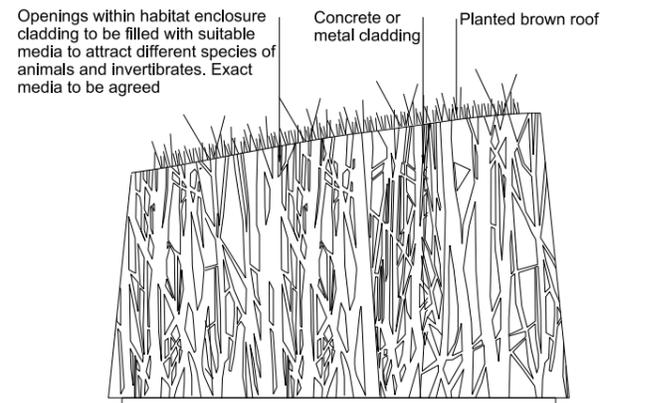




Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

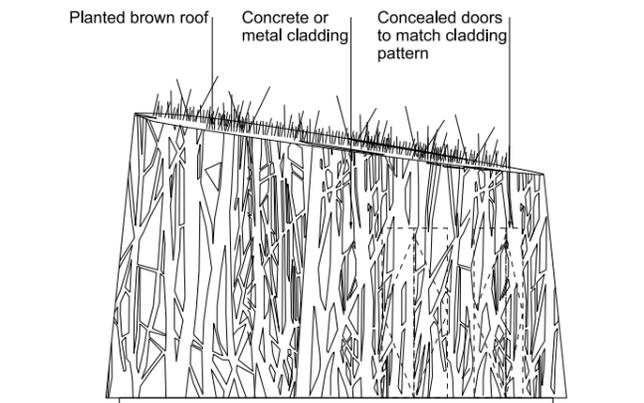
Notes:

1. All dimensions and levels are approximate.



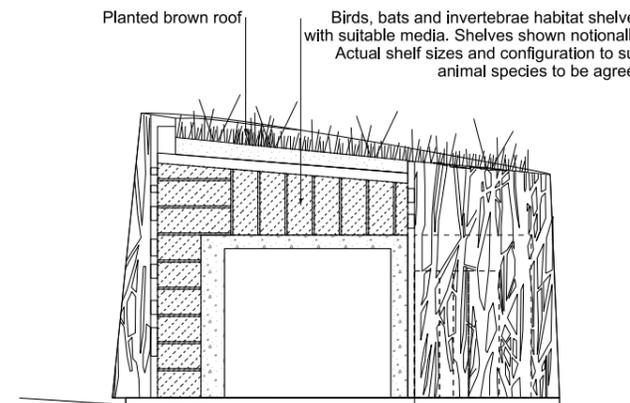
South elevation

Scale 1:50



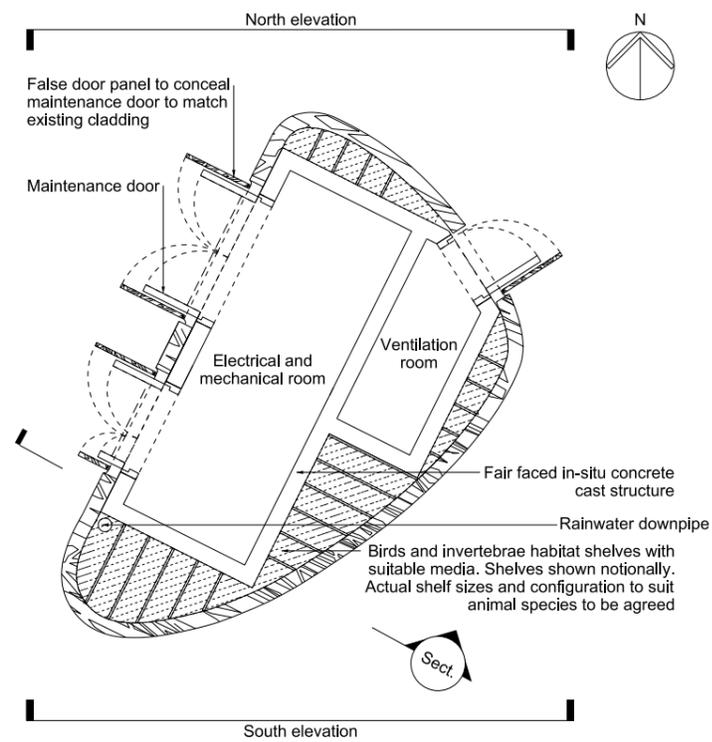
North elevation

Scale 1:50



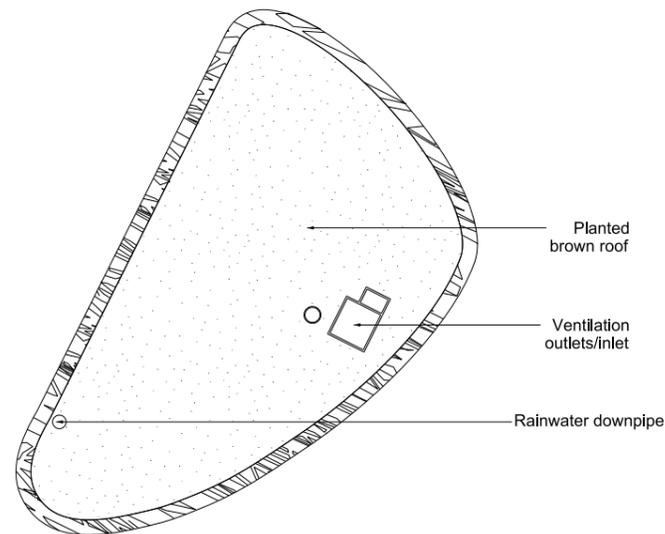
Section

Scale 1:50



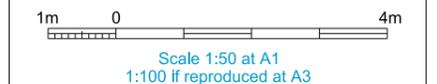
Floor plan

Scale 1:50



Roof plan

Scale 1:50



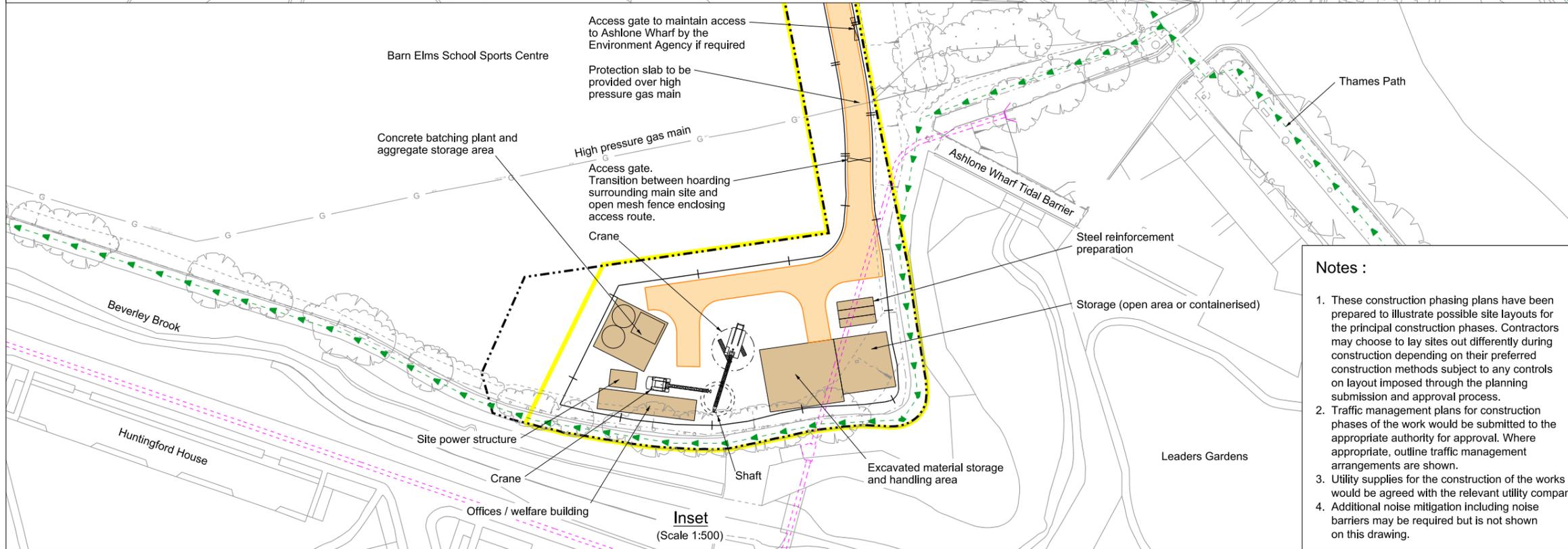
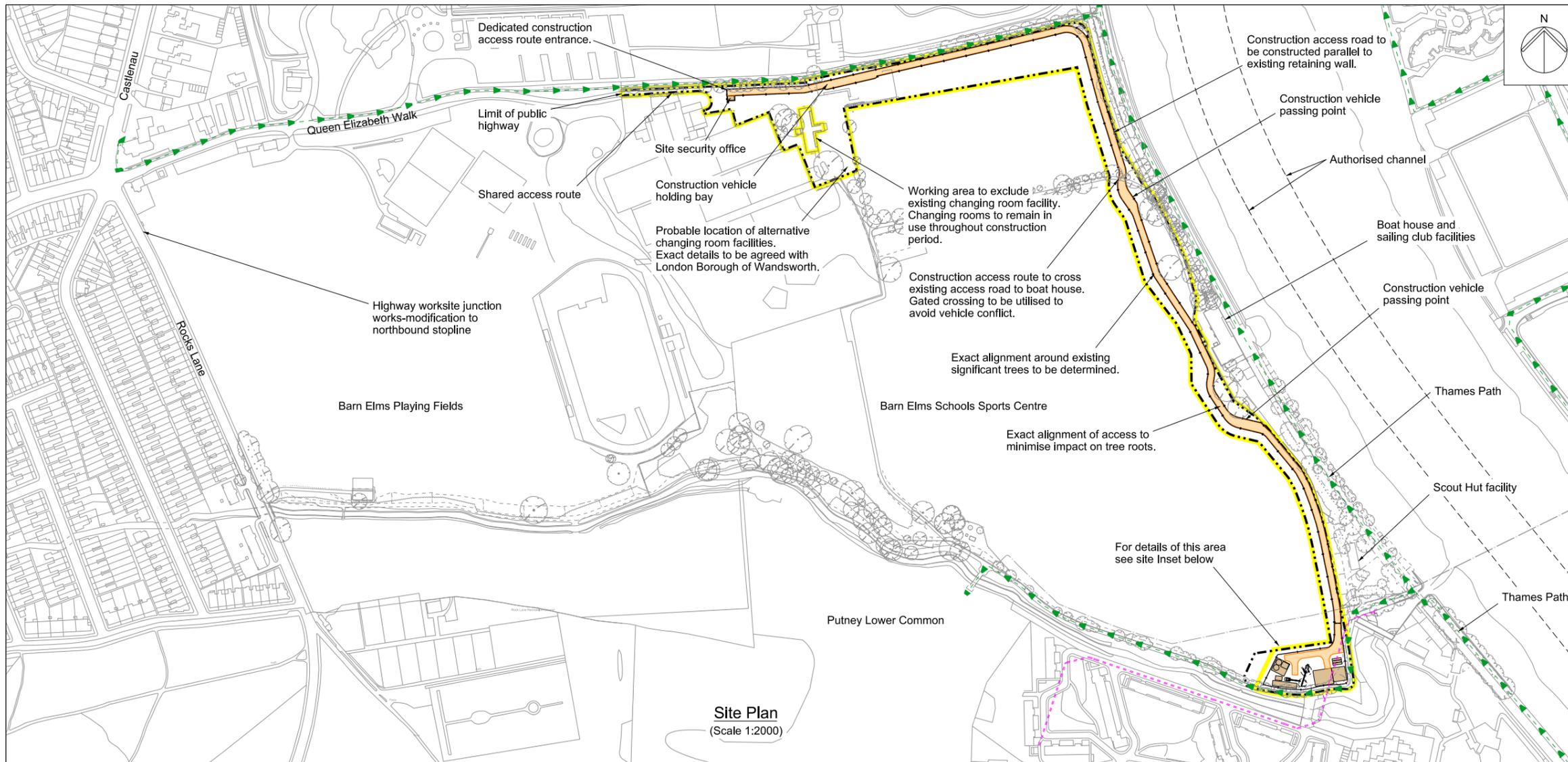
INDICATIVE

Location
Barn Elms
London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
Kiosk and ventilation column design intent

Book of plans - section 7
DCO-PP-04X-BAREL-070017
January 2013





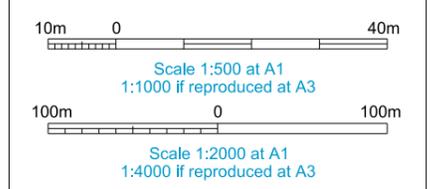
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Key:

	Limits of land to be acquired or used (LLAU)
	Existing public right of way
	Hoarding
	Open mesh fencing
	Maximum extent of working area
	Access / haul route
	Existing sewers



ILLUSTRATIVE

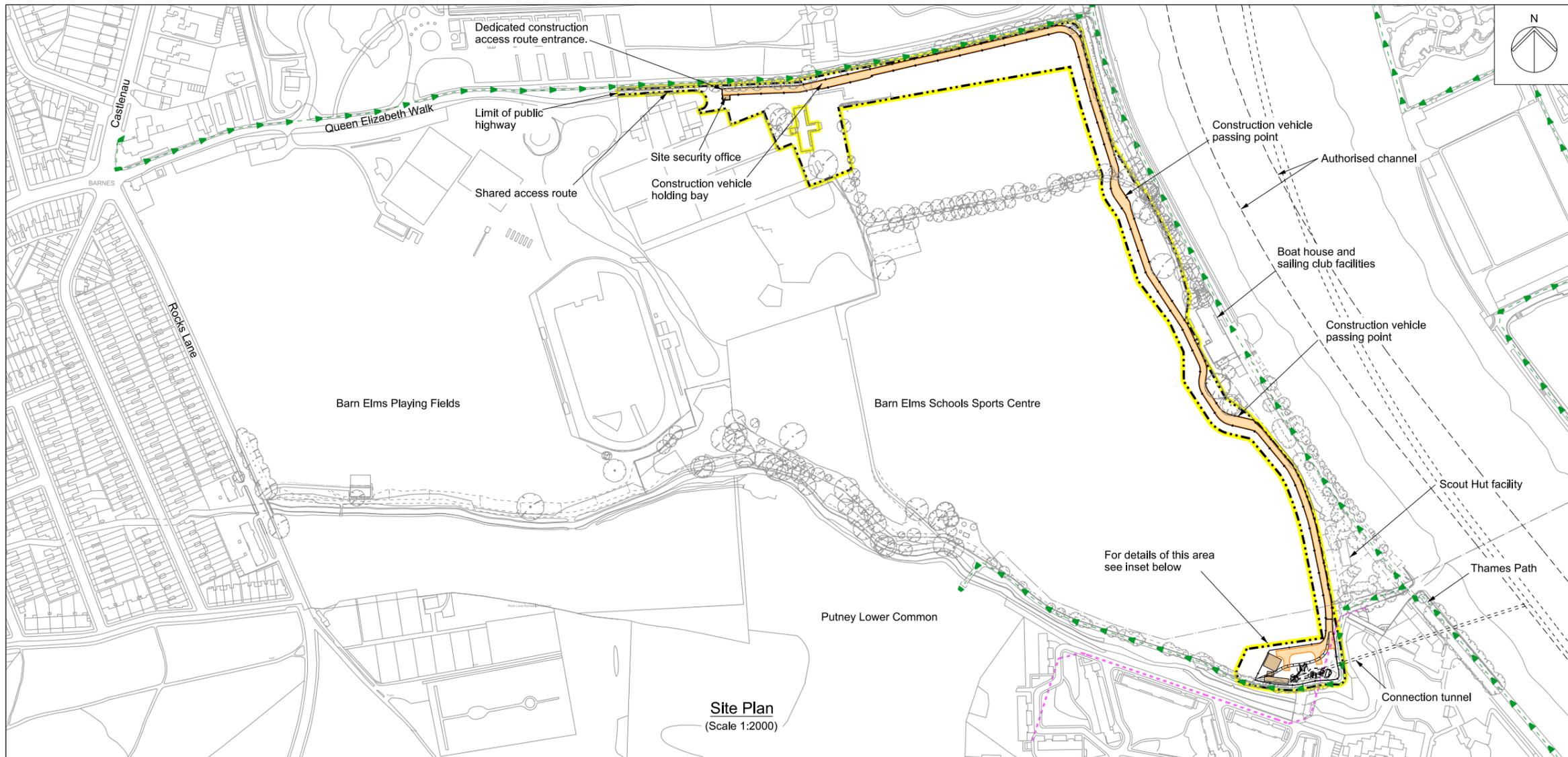
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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
Barn Elms
London Borough of Richmond Upon Thames

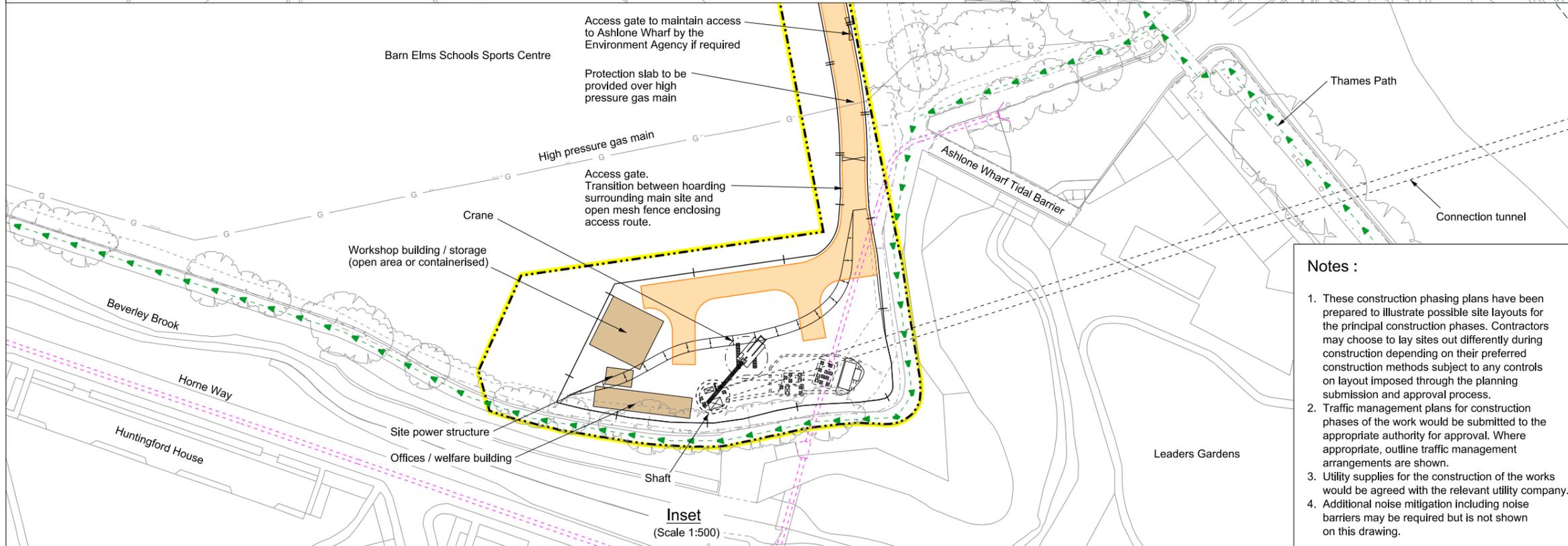
Document Information
Application for Development Consent
Construction phases - phase 1
Site setup, shaft construction & tunnelling
Book of plans - section 7
DCO-PP-04X-BAREL-070018
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

Thames Water



Site Plan
(Scale 1:2000)



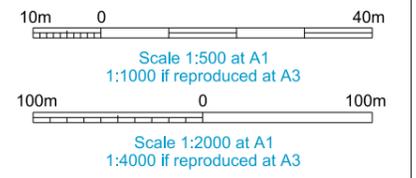
Inset
(Scale 1:500)

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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing public right of way
 - Hoarding
 - Open mesh fencing
 - Maximum extent of working area
 - Access / haul route
 - Existing sewers



ILLUSTRATIVE

- Notes :**
- These construction phasing plans have been prepared to illustrate possible site layouts for the principal 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.
 - 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.
 - Utility supplies for the construction of the works would be agreed with the relevant utility company.
 - Additional noise mitigation including noise barriers may be required but is not shown on this drawing.

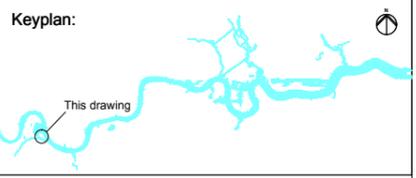
Location
Barn Elms
 London Borough of Richmond Upon Thames

Document Information
Application for Development Consent
 Construction phases - phase 2
 Construction of other structures
 Book of plans - section 7
 DCO-PP-04X-BAREL-070019
 January 2013





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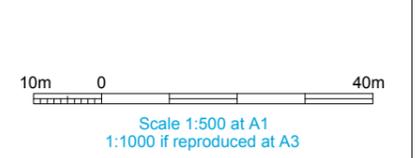
Key

Existing	
	Parking spaces
	Sports centre changing room facilities
	Gate
	Bollard
Revised	
	Suspended parking spaces
	Temporary parking spaces
	Illustrative on-site manoeuvring zone
	Building to be demolished
	Site hut
	Site hoarding
	Access gate
	Limit of land to be acquired or used (LLAU)
	PRD2X_C00 See schedule of works

On street parking
Private parking - sports centre parking

- 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

Stage
Phases 1 & 2



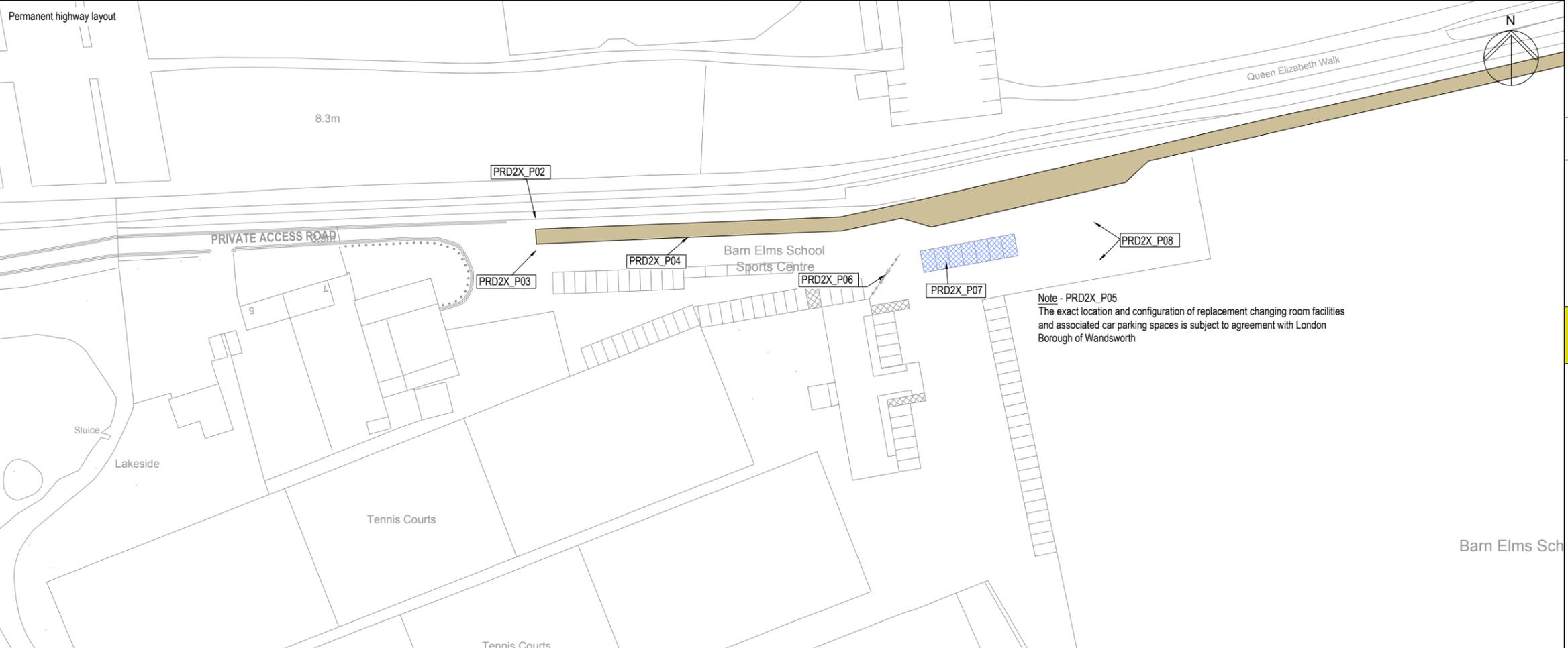
ILLUSTRATIVE

Location
Barn Elms
London Borough of Richmond Upon Thames

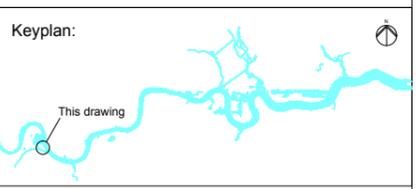
Document Information
Application for Development Consent
Highway layout during construction (Area 1)

DCO-PP-04X-BAREL-070025
January 2013





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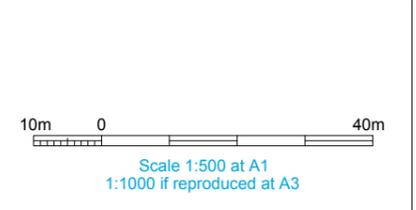
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key	
Existing	
	Parking restrictions
	Parking spaces
	Sport centre changing room facilities
	Gate
	Bollard
Revised	
	Reinstated parking spaces
	Illustrative on-site manoeuvring zone
	See schedule of works

On street parking
Private parking - sports centre parking

- 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, 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



ILLUSTRATIVE

Location
Barn Elms
London Borough of Richmond Upon Thames

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

DCO-PP-04X-BAREL-070026
January 2013



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Thames Water Utilities Limited

Clearwater Court, Vastern Road, Reading RG1 8DB

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