

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: **2.24**

Greenwich Pumping Station

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

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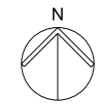
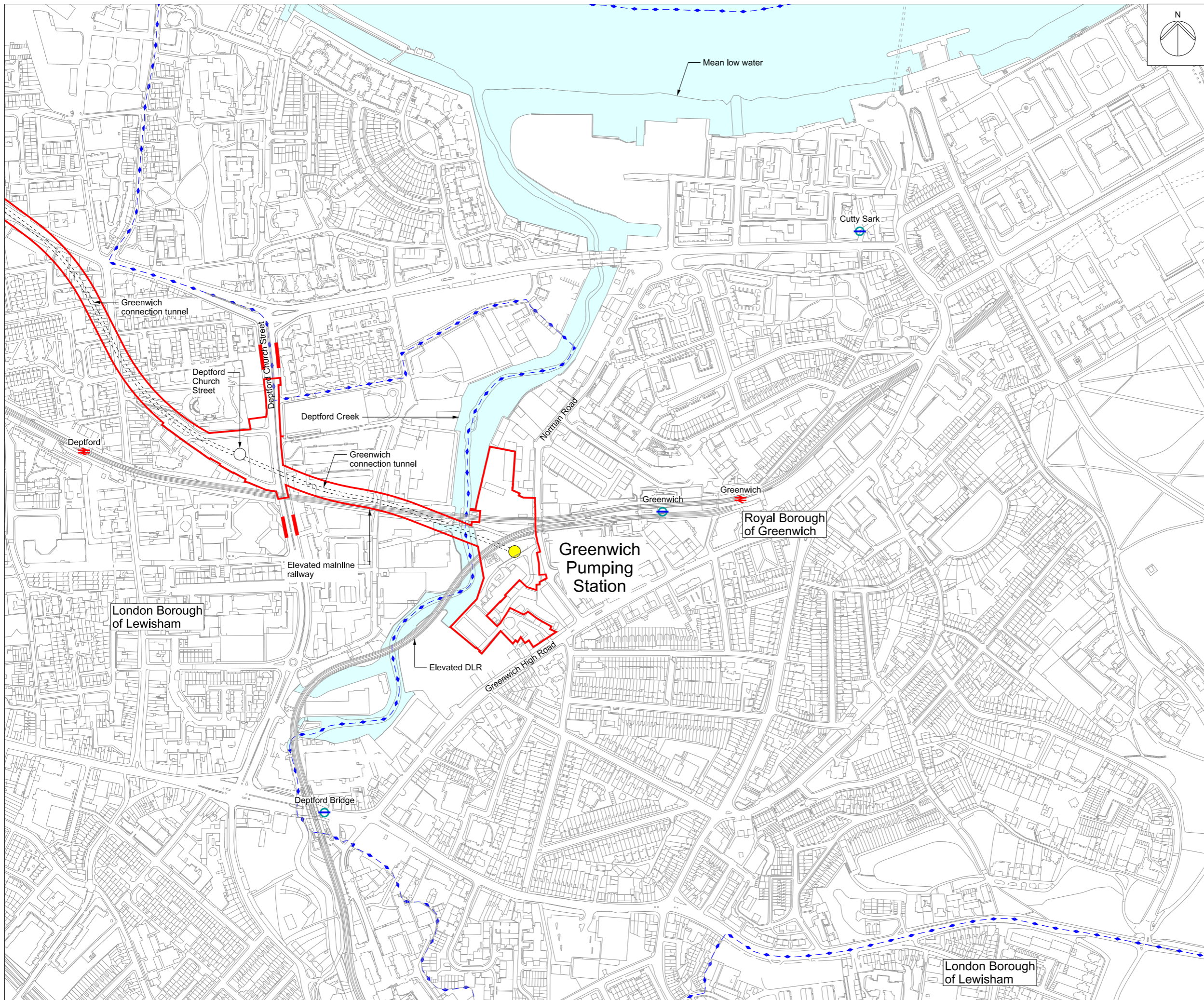
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* Schedules of associated highway works are located in the *Transport Assessment*

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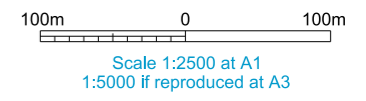


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

Notes:

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



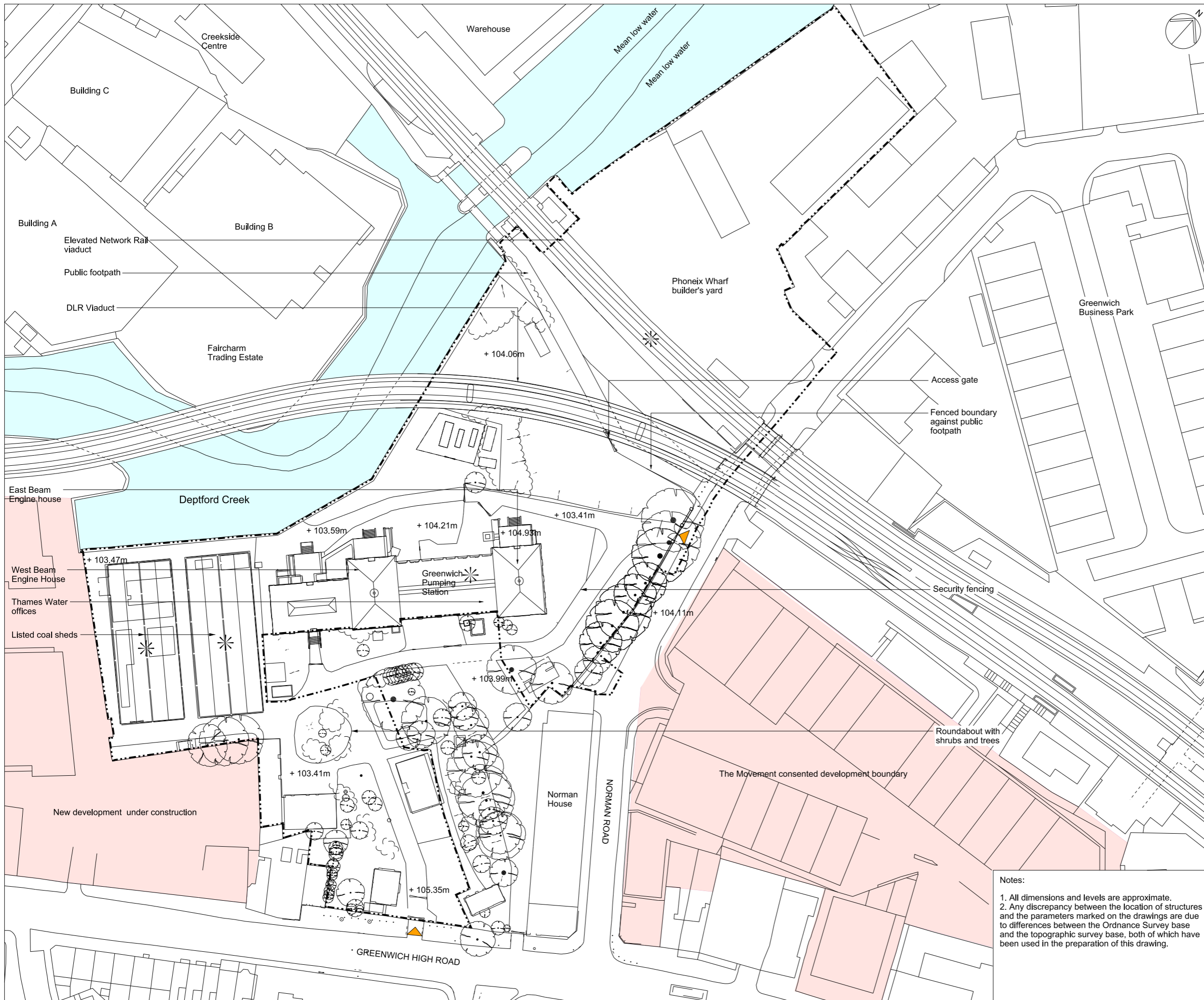
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Location
Greenwich Pumping Station
 Royal Borough of Greenwich

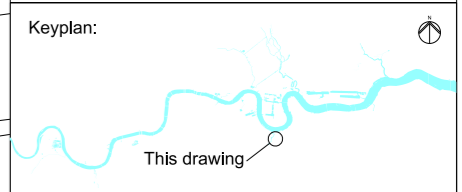
Document Information
Application for Development Consent
 Location plan

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 January 2013



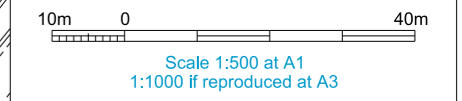


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which permanent above ground structures would be located
 - Zone within which required landscaping would be located
 - Maximum extent of foreshore structure
 - Authorised channel
 - + 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



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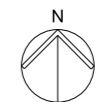
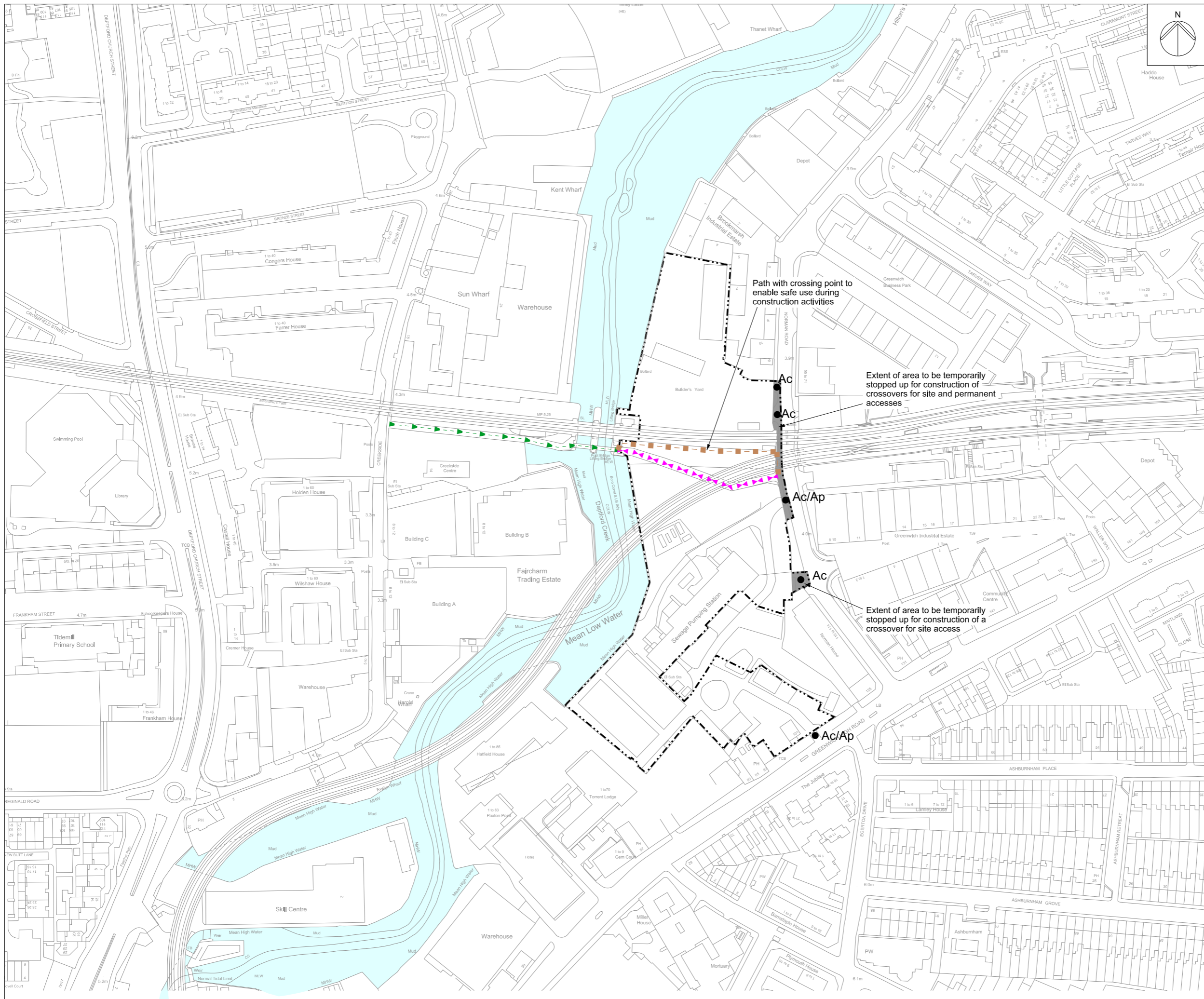
Location
Greenwich Pumping Station
 Royal Borough of Greenwich

Document Information
Application for Development Consent
 As existing
 Site features plan
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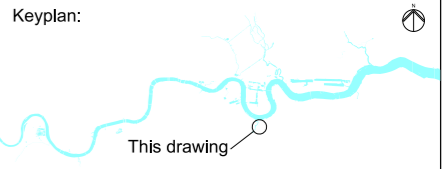
Notes:

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.





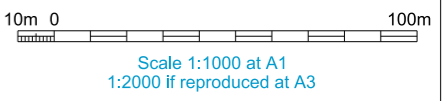
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Existing right of way temporarily stopped up
 - Area of highway to be temporarily stopped up
 - Ap** ● Access to permanent works
 - Ac** ● Access to construction works

- Notes:**
- This plan does not show stopping up and diversions of limited duration (e.g. hoarding erection, minor utility diversions and minor highway works).
 - 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.



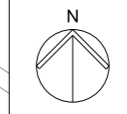
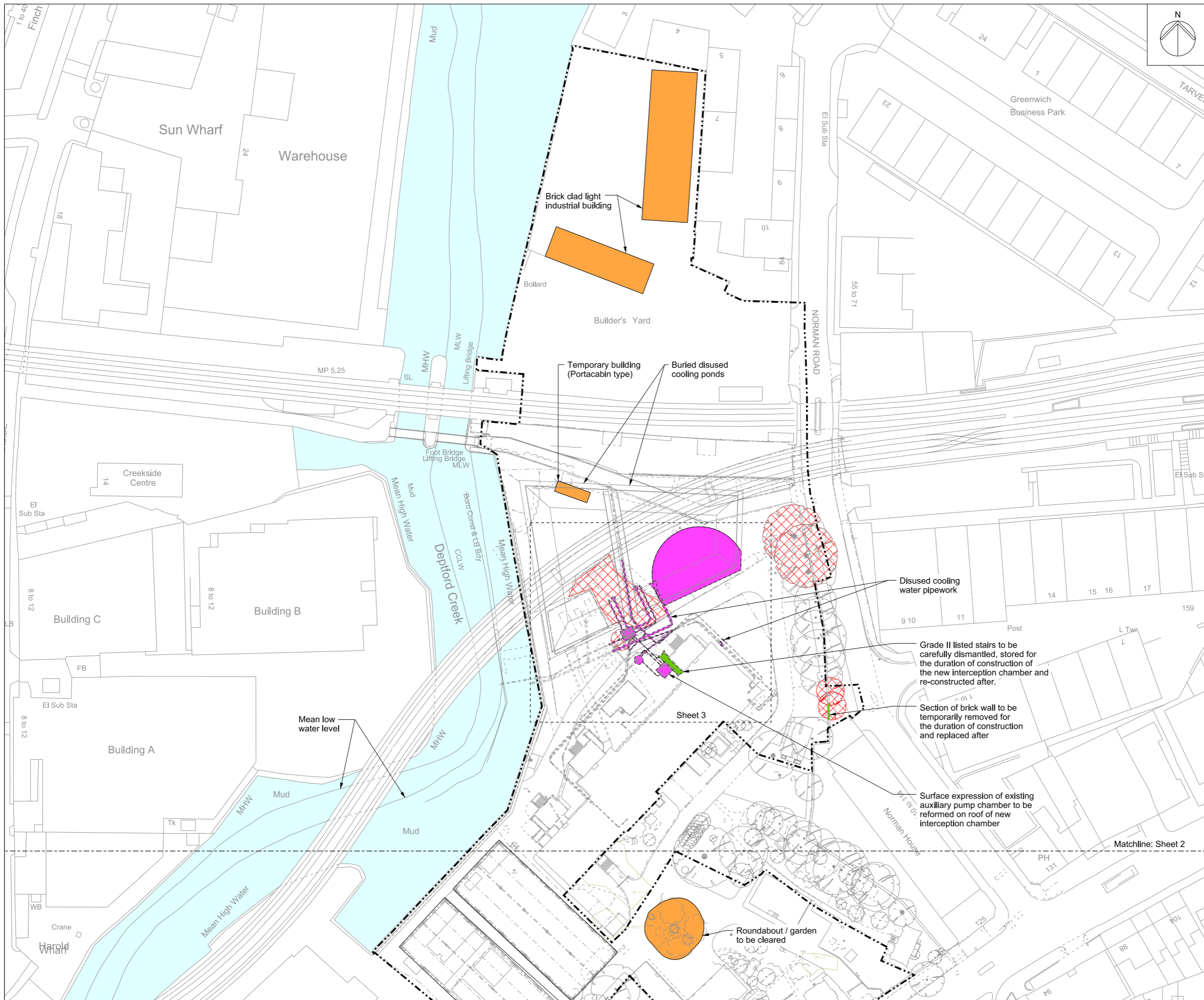
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[Location](#)
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 Royal Borough of Greenwich

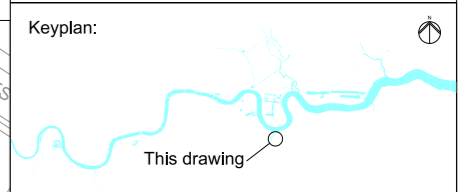
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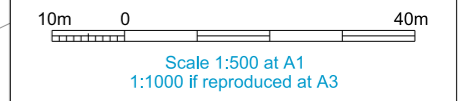
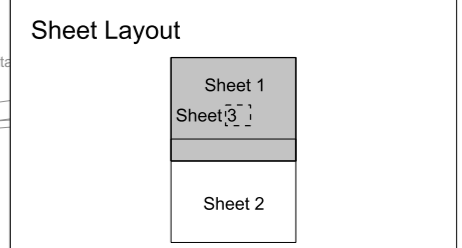
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Above ground structures to be removed
 - Below ground structures to be removed or infilled
 - 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.

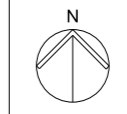
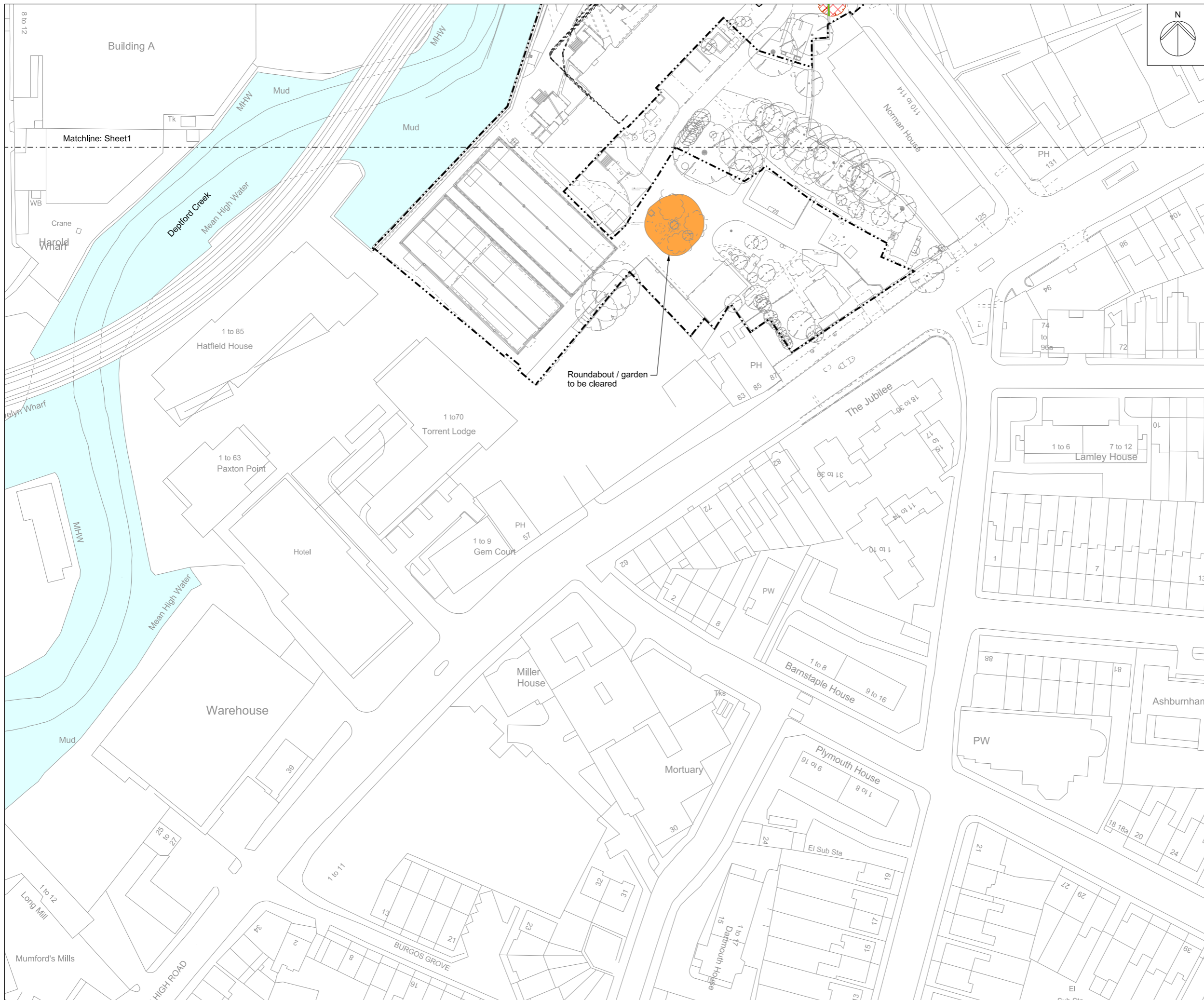


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Location
Greenwich Pumping Station
 Royal Borough of Greenwich

Document Information
Application for Development Consent
 Demolition and site clearance
 Sheet 1 of 3
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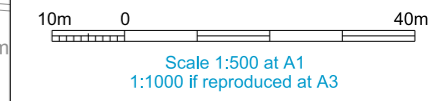
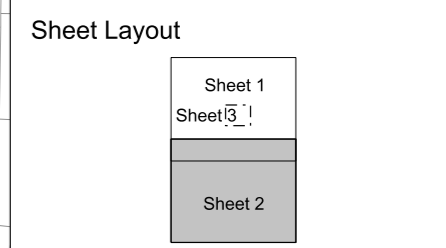
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Above ground structures to be removed

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

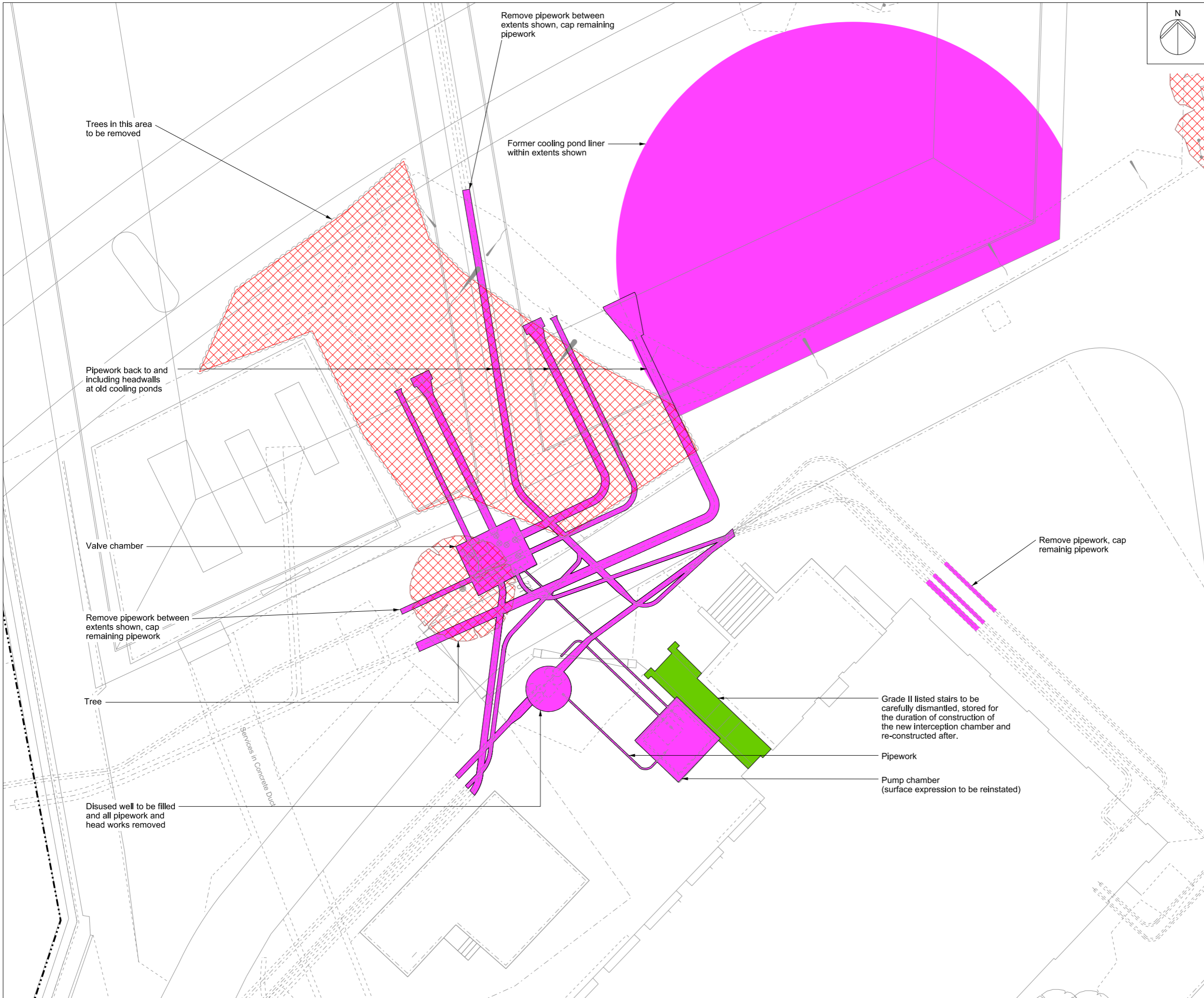


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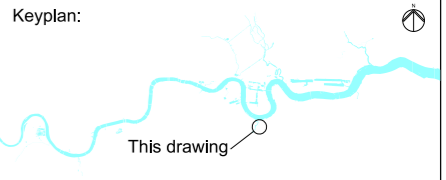
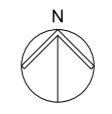
Location
Greenwich Pumping Station
 Royal Borough of Greenwich

Document Information
Application for Development Consent
 Demolition and site clearance
 Sheet 2 of 3
 Book of plans - section 24
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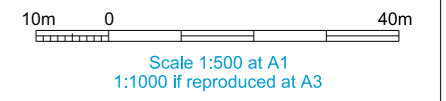
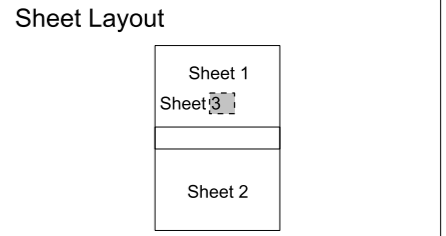
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Below ground structures to be removed or infilled
 - Structure to be removed and relocated or reinstated

- 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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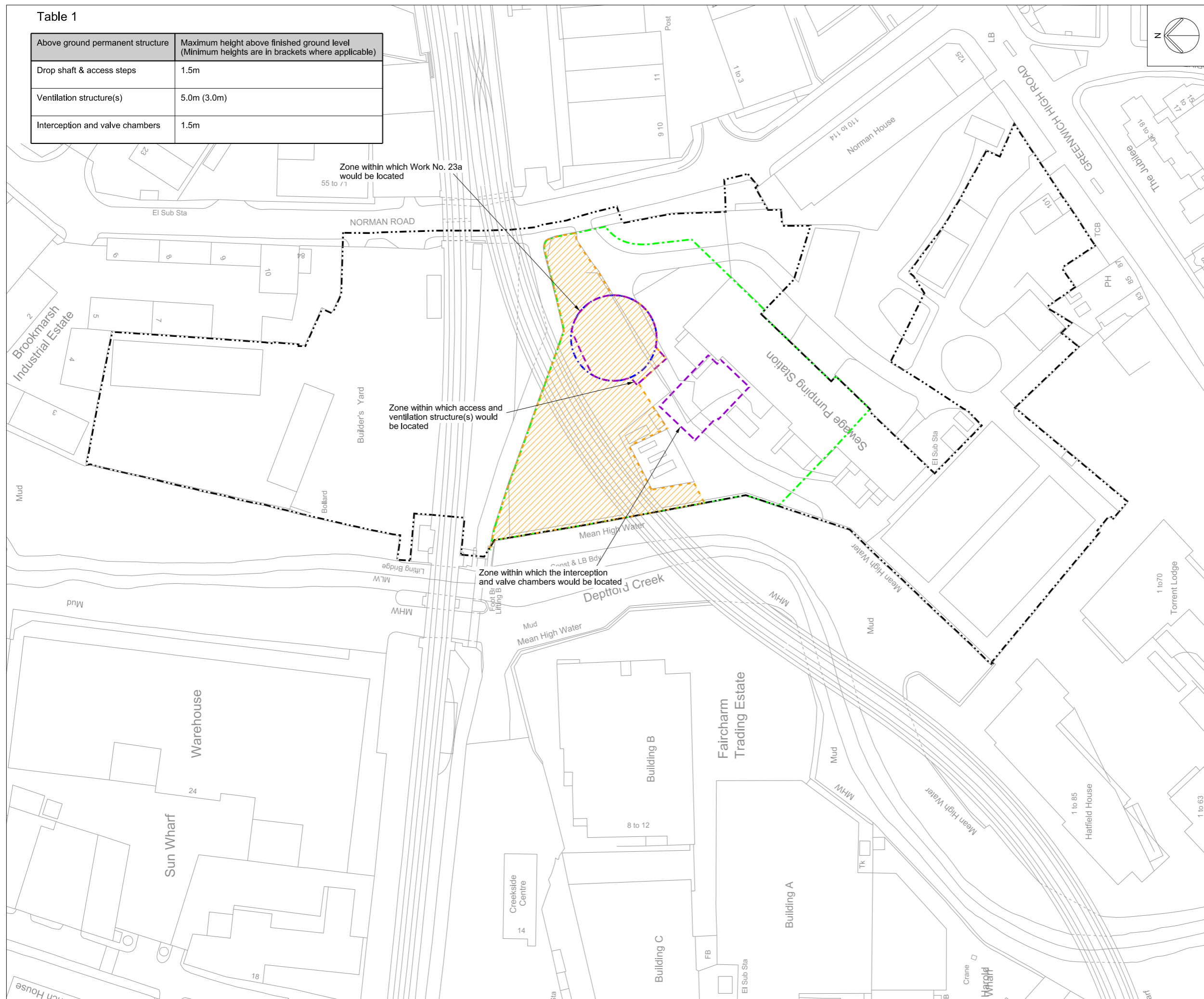
Location
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 Royal Borough of Greenwich

Document Information
Application for Development Consent
 Demolition and site clearance
 Sheet 3 of 3
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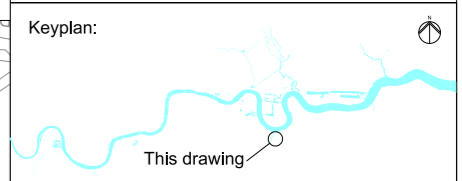


Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Drop shaft & access steps	1.5m
Ventilation structure(s)	5.0m (3.0m)
Interception and valve chambers	1.5m



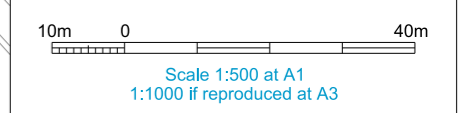
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located (those 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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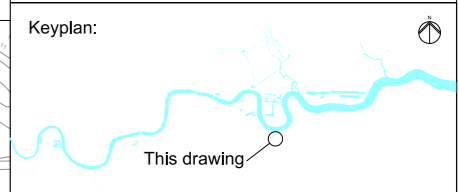
[Document Information](#)
Application for Development Consent
 Site works parameter plan

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 DCO-PP-23X-GREPS-240007
 January 2013





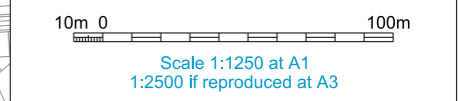
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located
 - Zone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



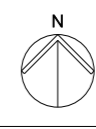
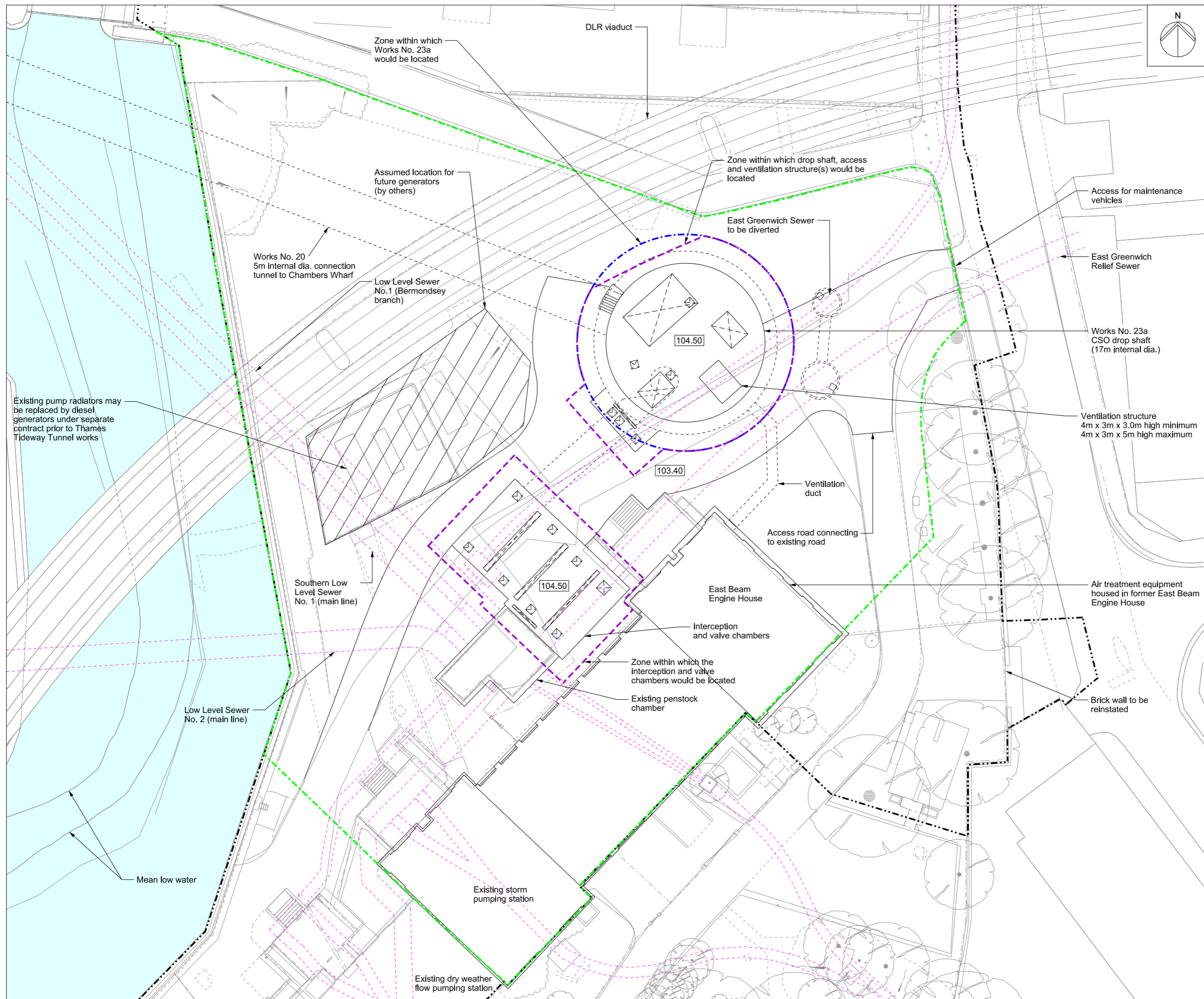
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Location
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 Royal Borough of Greenwich

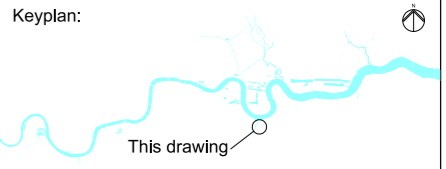
Document Information
Application for Development Consent
 Site works parameter key plan

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 January 2013





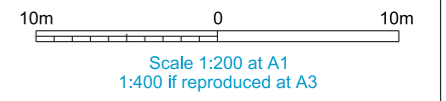
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - Proposed access cover
 - Proposed level (shown in metres above tunnel datum)
 - Zone within which all permanent site structures would be located
 - Zone within which the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

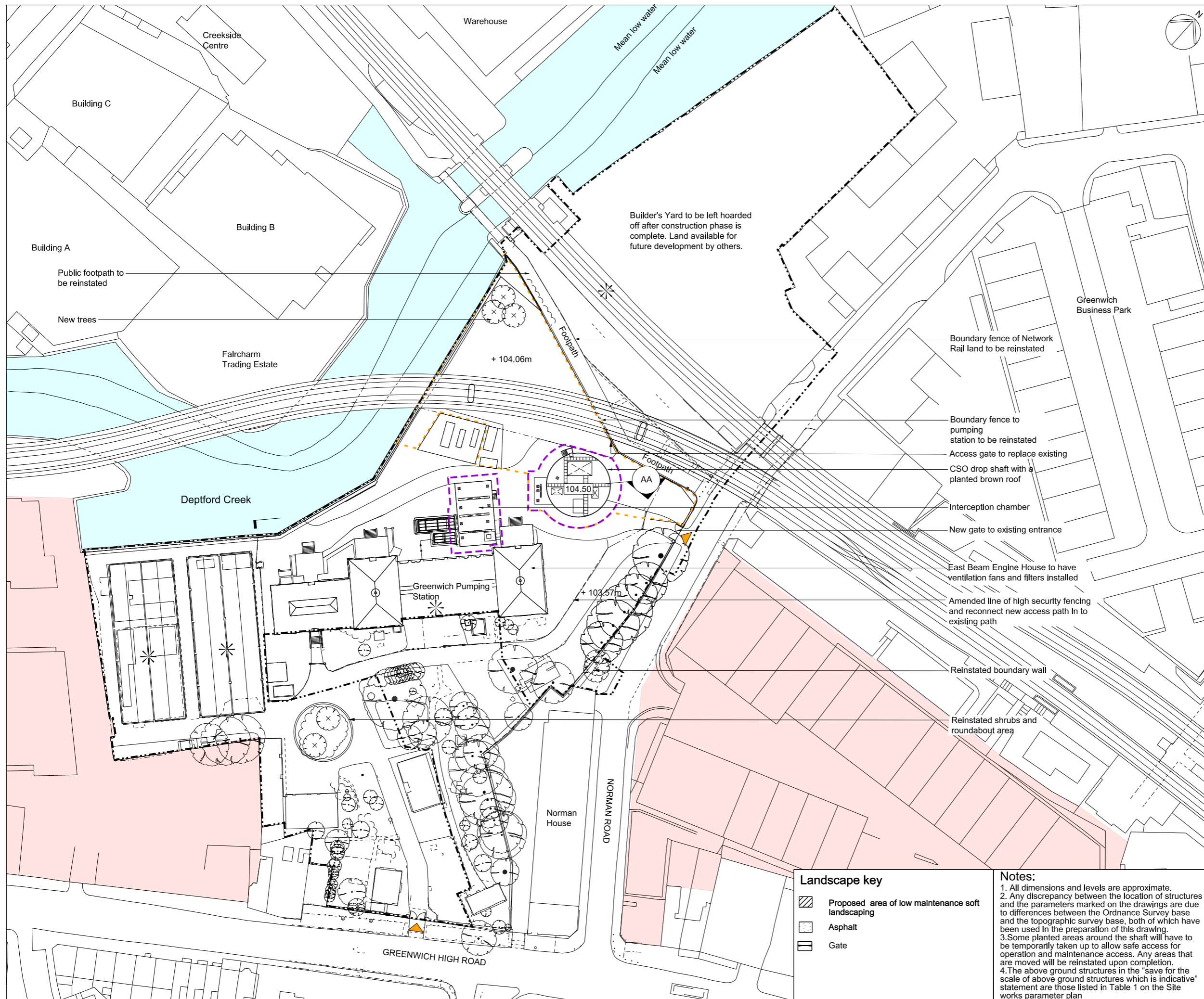


ILLUSTRATIVE

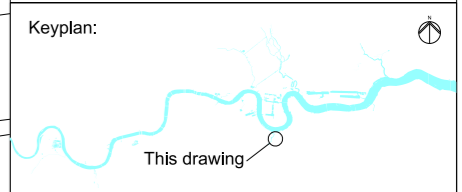
Location
Greenwich Pumping Station
 Royal Borough of Greenwich

Document Information
Application for Development Consent
 Permanent works layout

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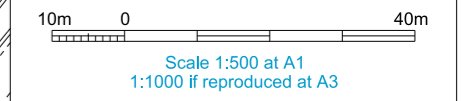


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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



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

Location
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information
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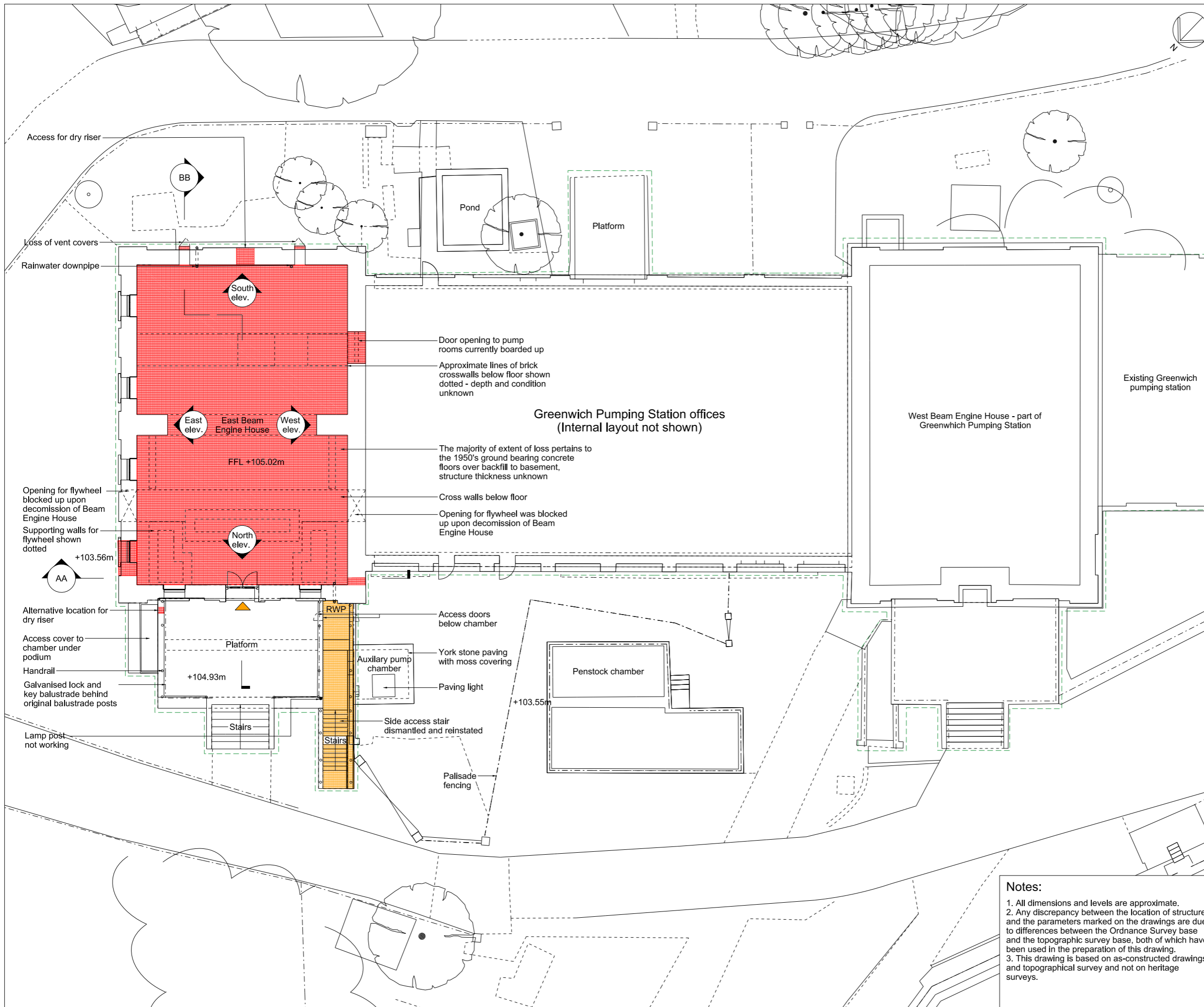
Proposed
Site features plan
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January 2013



- Landscape key**
- Proposed area of low maintenance soft landscaping
 - Asphalt
 - Gate

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. Some planted areas around the shaft will have to be temporarily taken up to allow safe access for operation and maintenance access. Any areas that are moved will be reinstated upon completion.
4. The above ground structures in the "save for the scale of above ground structures which is indicative" statement are those listed in Table 1 on the Site works parameter plan

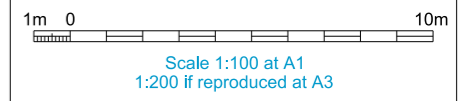


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- + 105.40m Existing levels (shown in metres above tunnel datum)
 - Existing trees within surveyed area (trunk sizes vary)
 - Thames Water access
 - Extent of Listed buildings / structures within LLAU
 - Maximum temporary extent of loss of listed buildings / structures
 - Maximum permanent extent of loss of listed buildings / structures



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Save for maximum extent of loss of listed structures which is for approval

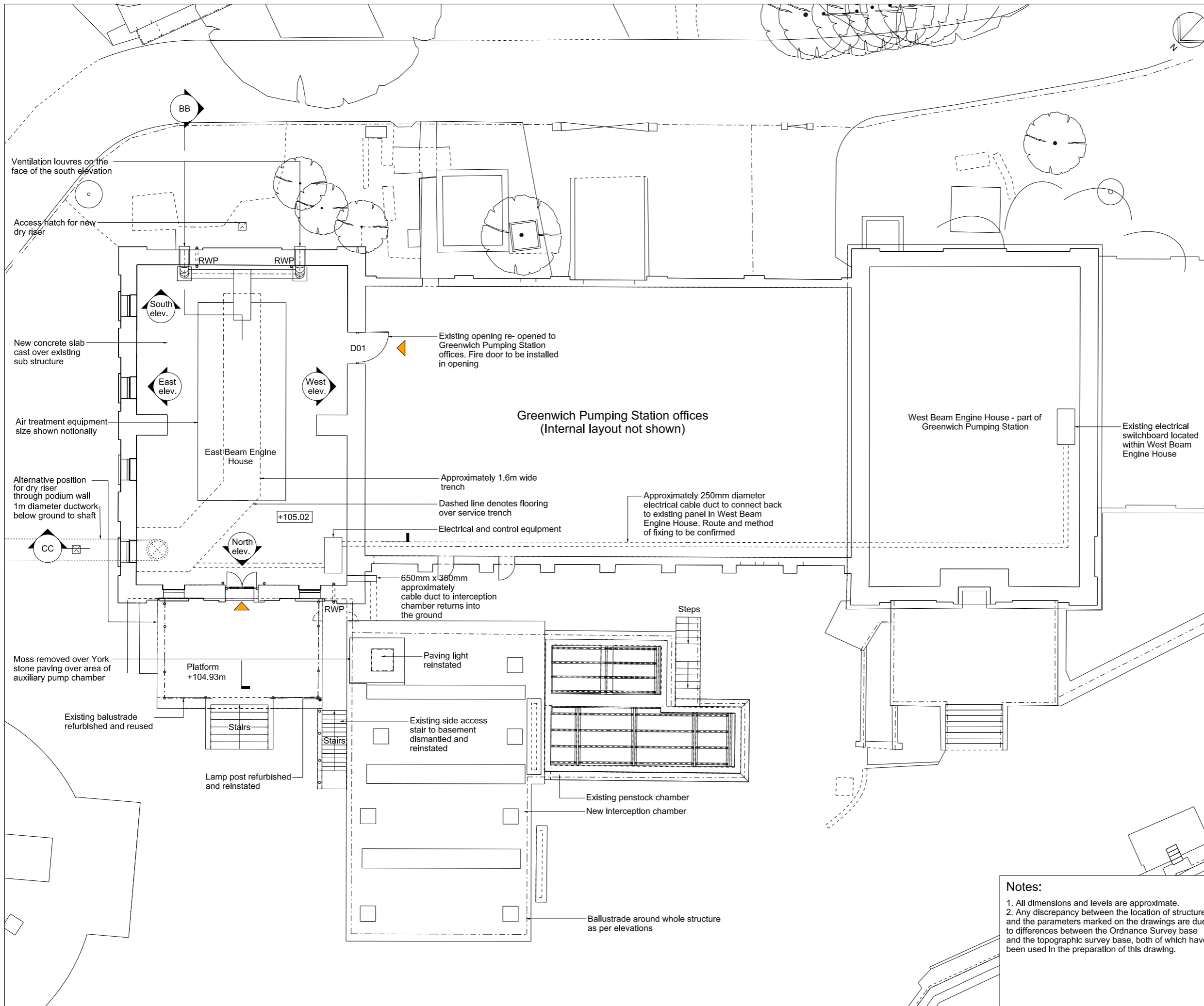
Location
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information
Application for Development Consent
Existing
Floor plan with extent of loss
Book of plans - section 24
DCO-PP-23X-GREPS-240011
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. This drawing is based on as-constructed drawings and topographical survey and not on heritage surveys.



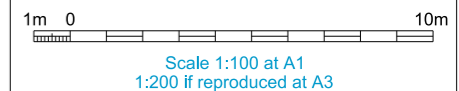


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- + 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)
 - Thames Water access



INDICATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

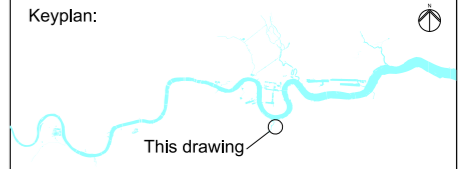
Document Information
Application for Development Consent
Proposed
Floor plan
Book of plans - section 24
DCO-PP-23X-GREPS-240012
January 2013

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.



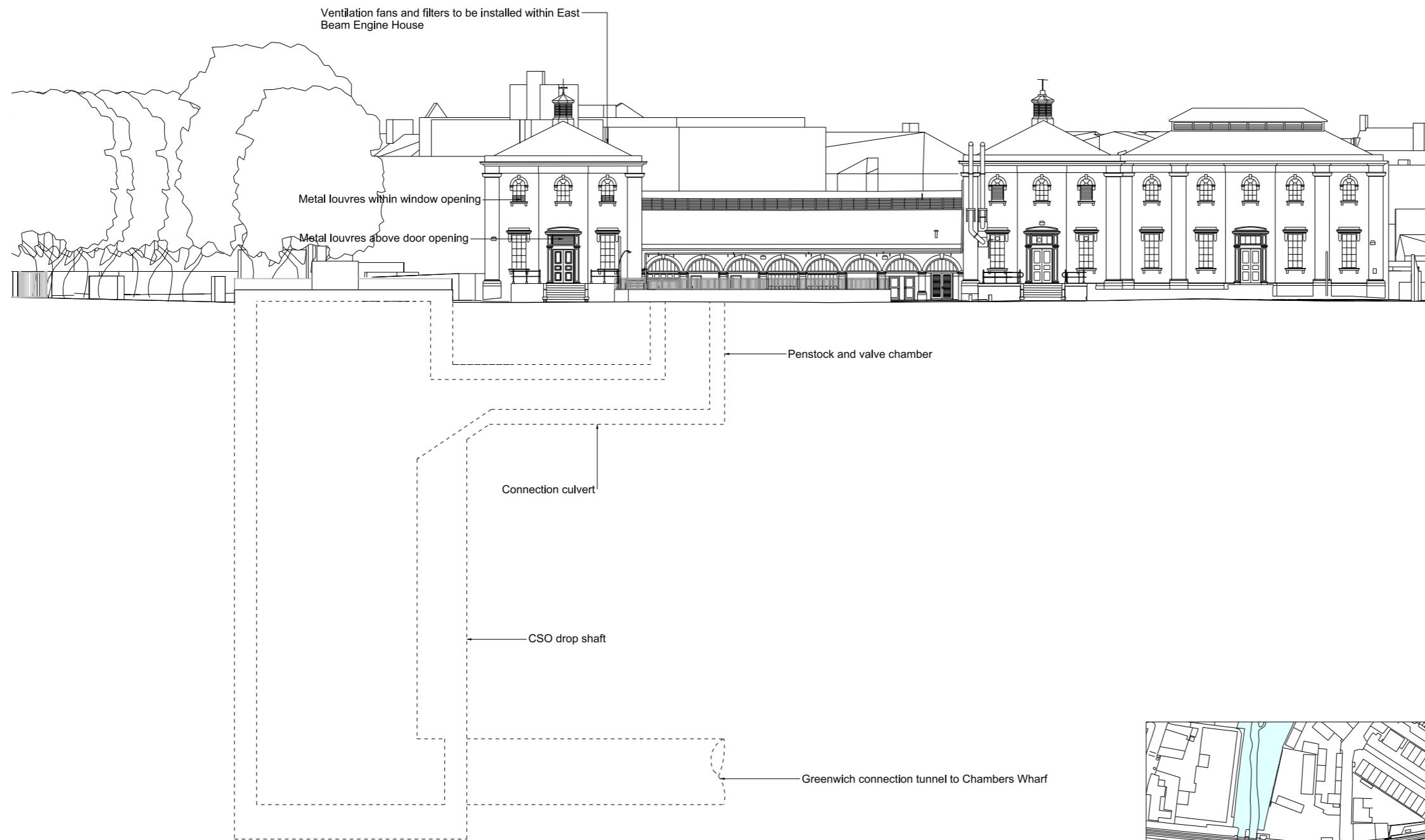
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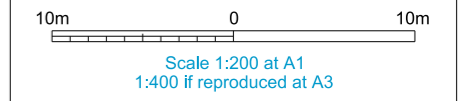
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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.



Section AA



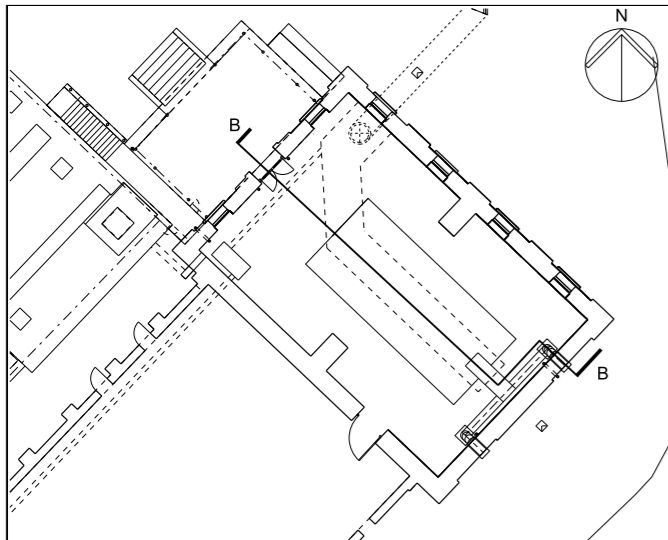
ILLUSTRATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

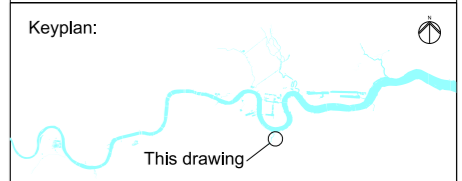
Document Information
Application for Development Consent
Section AA

Book of plans - section 24
DCO-PP-23X-GREPS-240013
January 2013



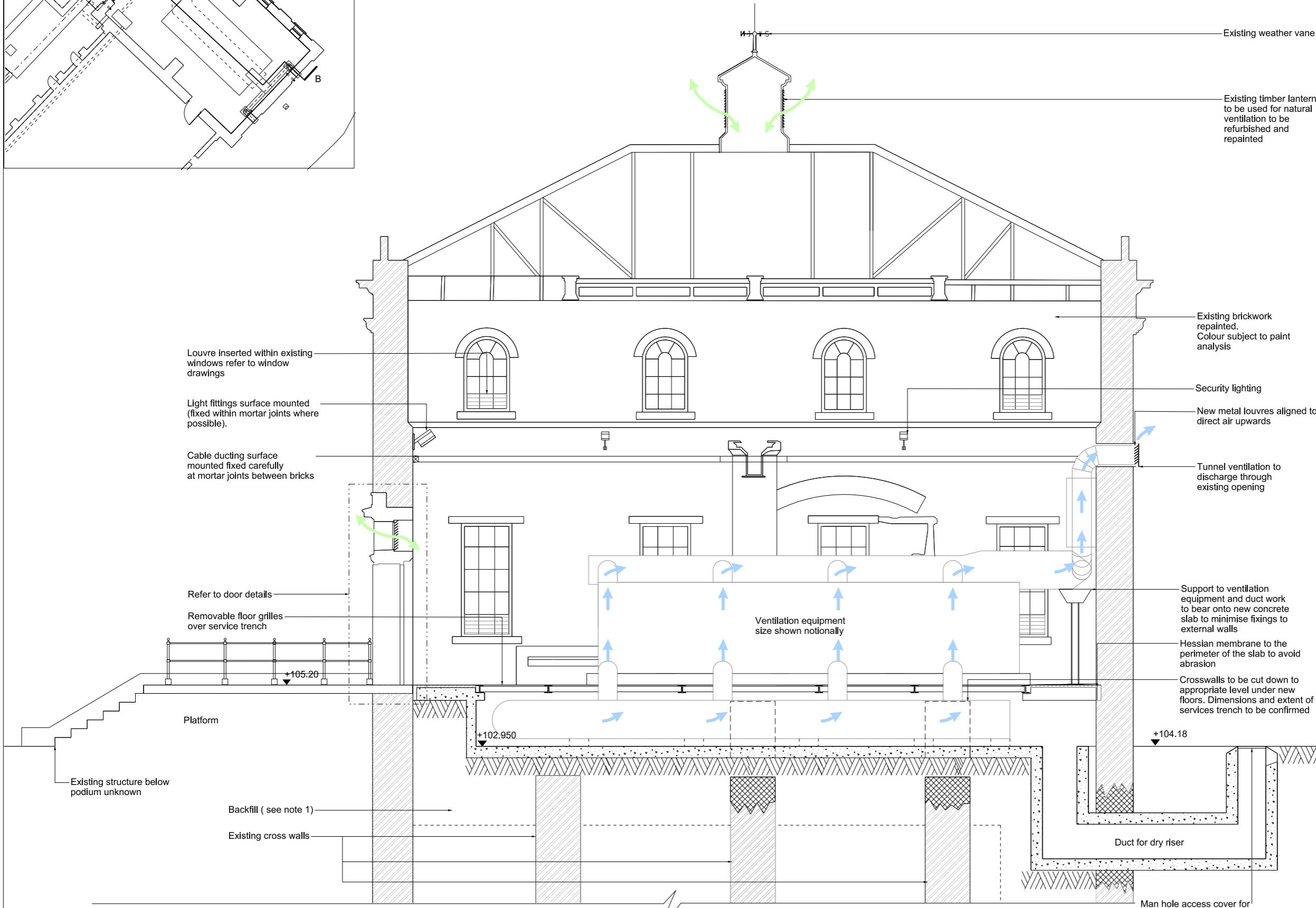
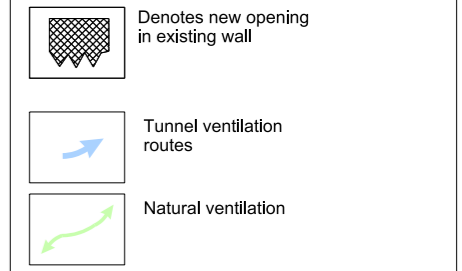


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes
 1. Floor details shown are subject to an intrusive investigation of the existing in-fill to confirm the in-situ composition of the material and its density



Existing weather vane

Existing timber lantern to be used for natural ventilation to be refurbished and repainted

Existing brickwork repainted. Colour subject to paint analysis

Security lighting

New metal louvres aligned to direct air upwards

Tunnel ventilation to discharge through existing opening

Support to ventilation equipment and duct work to bear onto new concrete slab to minimise fixings to external walls

Hessian membrane to the perimeter of the slab to avoid abrasion

Crosswalls to be cut down to appropriate level under new floors. Dimensions and extent of services trench to be confirmed

Louvre inserted within existing windows refer to window drawings

Light fittings surface mounted (fixed within mortar joints where possible).

Cable ducting surface mounted fixed carefully at mortar joints between bricks

Refer to door details

Removable floor grilles over service trench

Ventilation equipment size shown notionally

Platform

Existing structure below podium unknown

Backfill (see note 1)

Existing cross walls

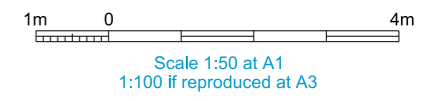
+104.18

+102.950

+105.20

Duct for dry riser

Man hole access cover for dry riser



INDICATIVE

Location
 Greenwich Pumping Station
 Royal Borough of Greenwich

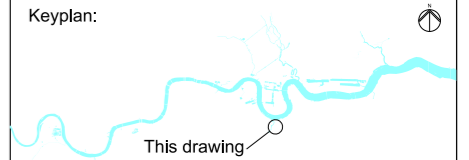
Document Information
 Application for Development Consent
 Section BB

Book of plans - section 24
 DCO-PP-23X-GREPS-240014
 January 2013



Section BB





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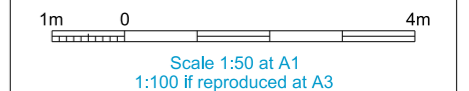


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes

1. Floor details shown are subject to an intrusive investigation of the existing in-fill to confirm the in-situ composition of the material and its density

-  Denotes new opening in existing wall
-  Tunnel ventilation routes
-  Natural ventilation
-  Electrical cable / ductwork route

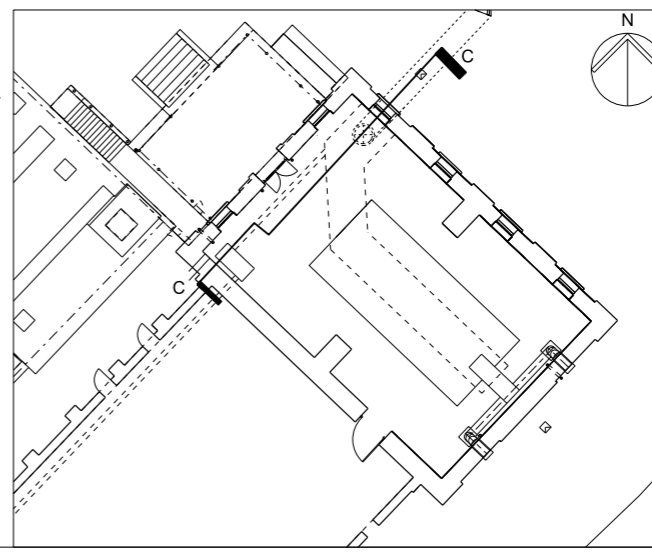
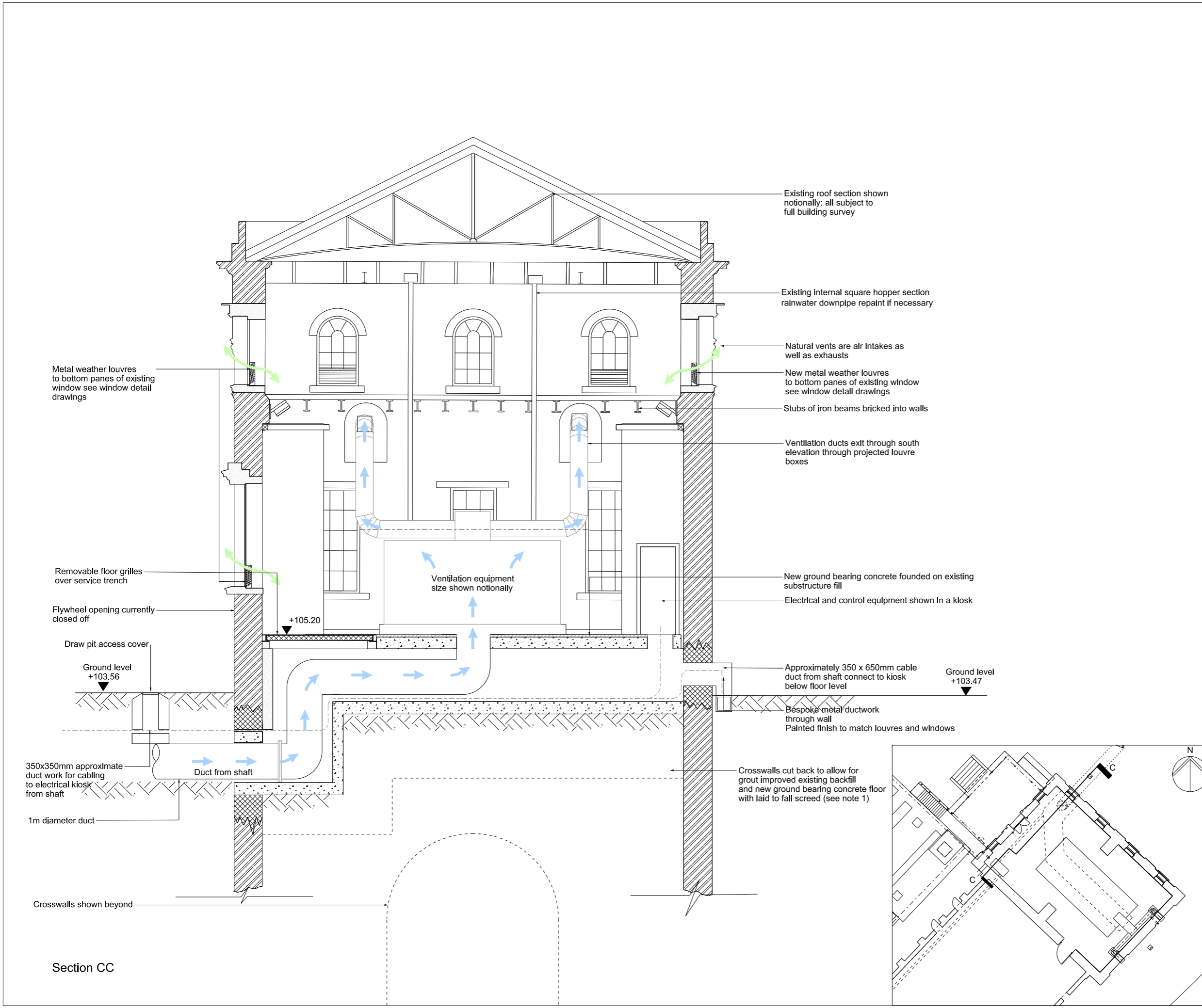


INDICATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information
Application for Development Consent
Section CC

Book of plans - section 24
DCO-PP-23X-GREPS-240015
January 2013



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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. Extent of restoration works to be confirmed pending full historic appraisal



East Beam Engine House

Penstock chamber

West Beam Engine House

Thames Water sewage pumping station

Coal sheds

As existing North elevation



Extent of restoration works to be confirmed pending full historic appraisal

Beam Engine House used to house ventilation fans and filters

Glass and glazing bars restored and replaced to match existing where possible

Metal louvres in window fanlight for natural ventilation of Beam Engine House

Ventilation structure

CSO drop shaft

East Beam Engine House

Interception and valve chamber

As proposed North elevation

10m 0 10m

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

ILLUSTRATIVE

Location

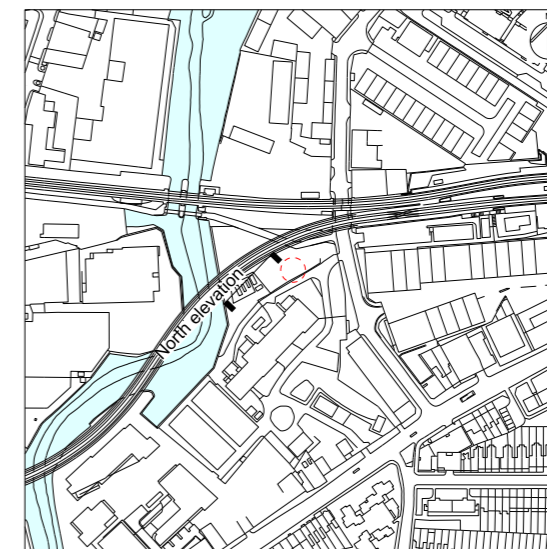
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information

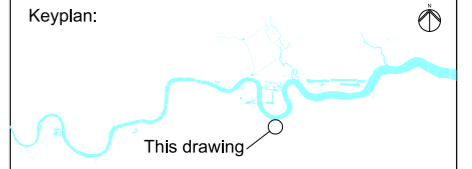
Application for Development Consent

As existing and proposed
North elevation
Book of plans - section 24
DCO-PP-23X-GREPS-240016
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

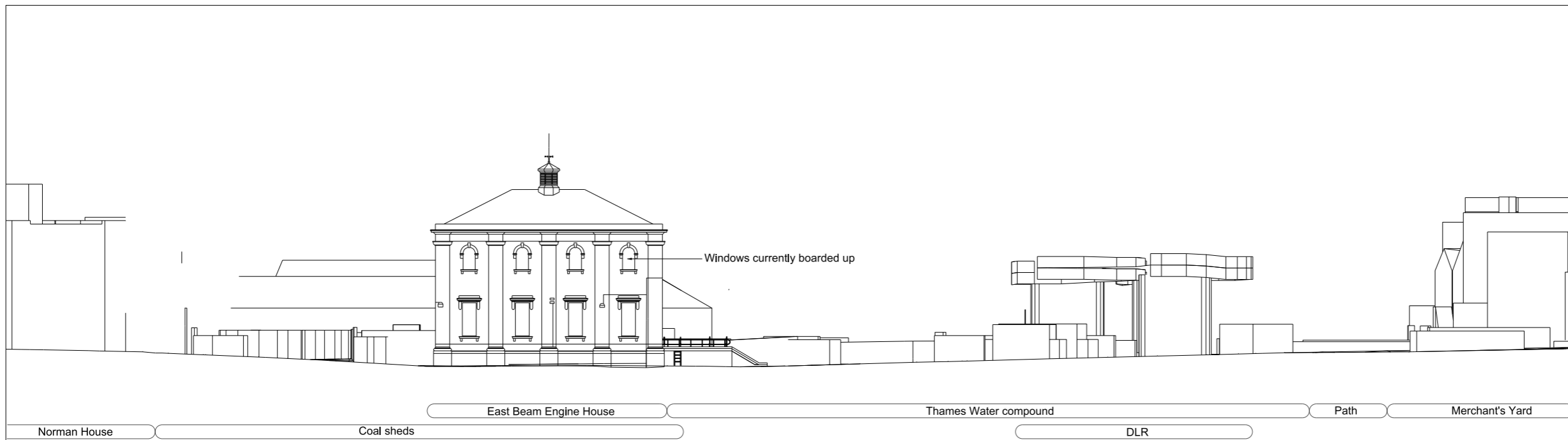


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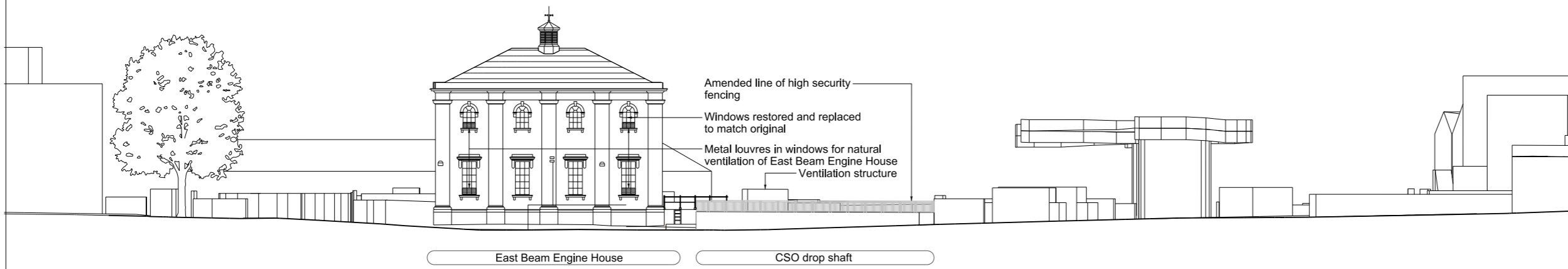


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

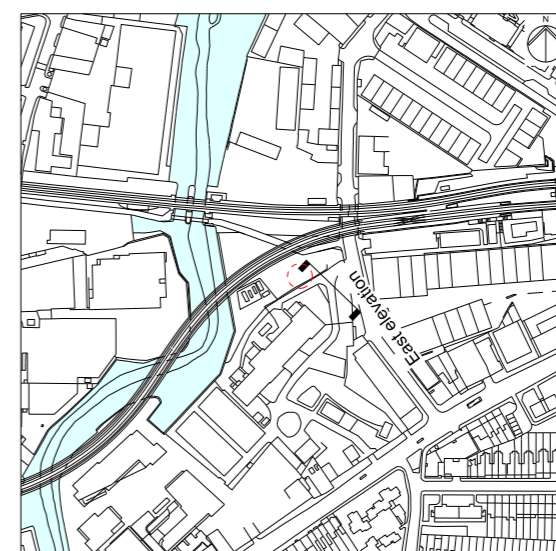
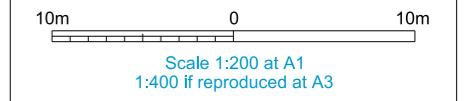
Notes:
1. All dimensions and levels are approximate.



As existing East elevation



As proposed East elevation

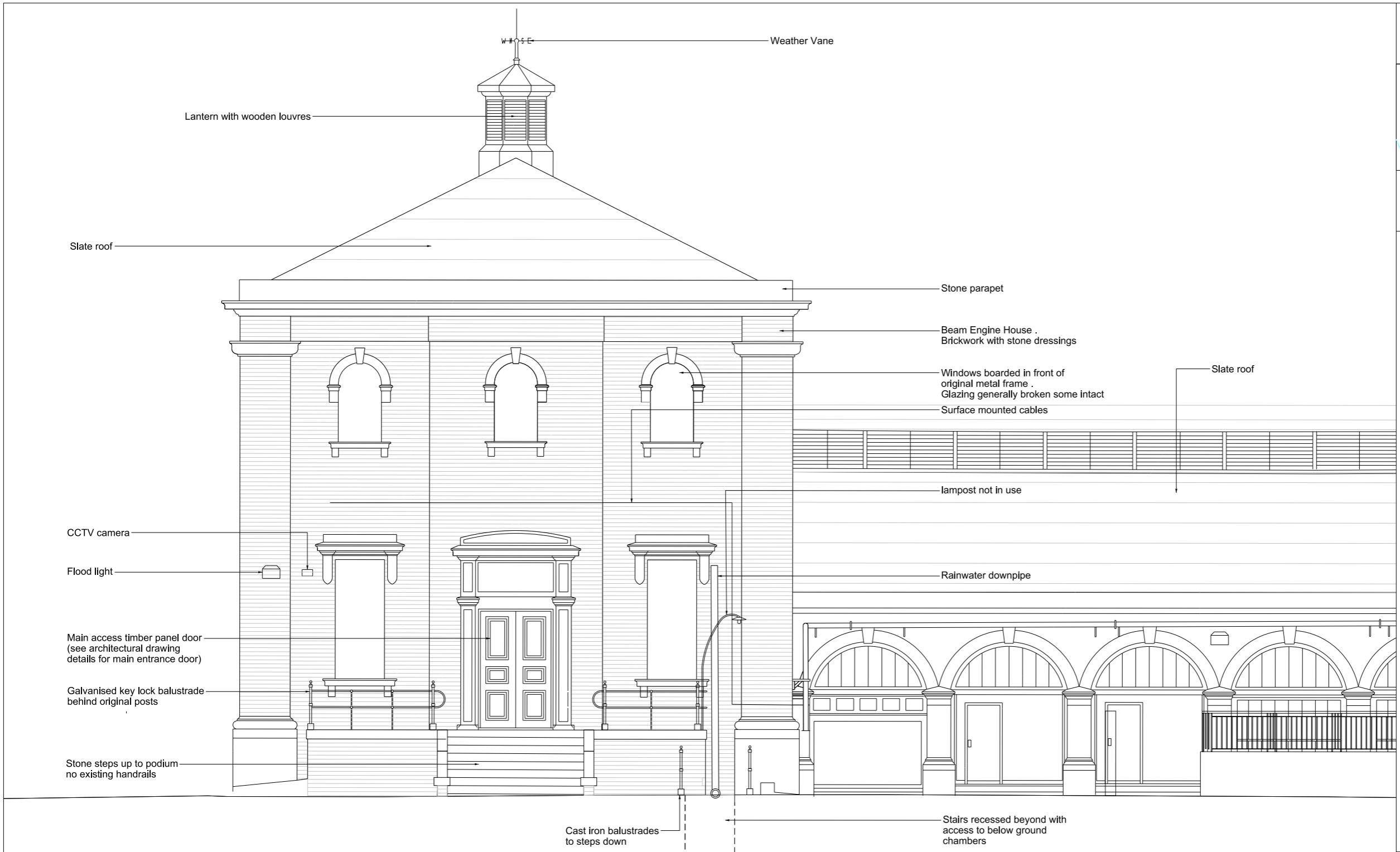


ILLUSTRATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

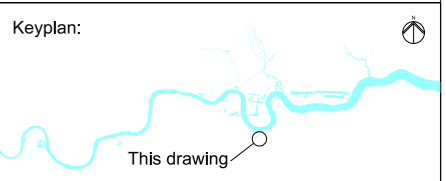
Document Information
Application for Development Consent
As existing and proposed
East elevation
Book of plans - section 24
DCO-PP-23X-GREPS-240017
January 2013





Existing north elevation

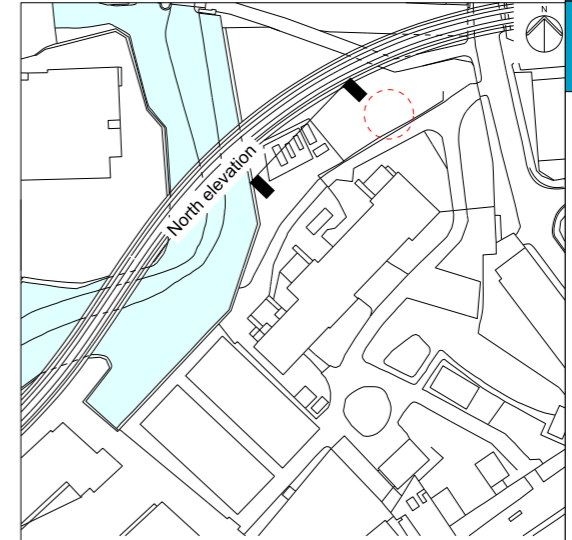
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:
 1. All dimensions and levels are approximate.
 2. Extent of restoration works to be confirmed pending full historic appraisal

1m 0 4m
 Scale 1:50 at A1
 1:100 if reproduced at A3



FOR INFORMATION

Location
 Greenwich Pumping Station
 Royal Borough of Greenwich

Document Information
 Application for Development Consent
 As existing beam engine house
 North elevation
 Book of plans - section 24
 DCO-PP-23X-GREPS-240018
 January 2013





Refurbish existing window frames. Re-use existing glazing bars and glass where practicable. Replace to match where not. Paint window frames, colour to match original subject to 'paint analysis'.

Original handrailing to be refurbished or replaced with replica

Lantern used for natural ventilation to be refurbished and repainted

Slate roof to be repaired where necessary

Lampost to be refurbished

Existing door to be refurbished (see architectural drawing details for main entrance door)

Proposed north elevation

Interception chamber

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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.



Scale 1:50 at A1
1:100 if reproduced at A3

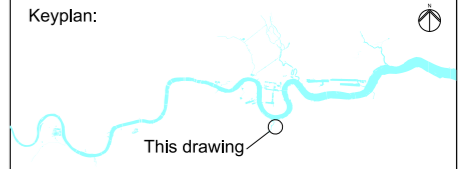
INDICATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information
Application for Development Consent
Proposed beam engine house
North elevation
Book of plans - section 24
DCO-PP-23X-GREPS-240019
January 2013



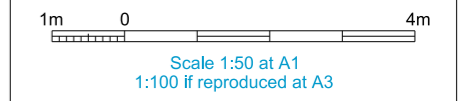
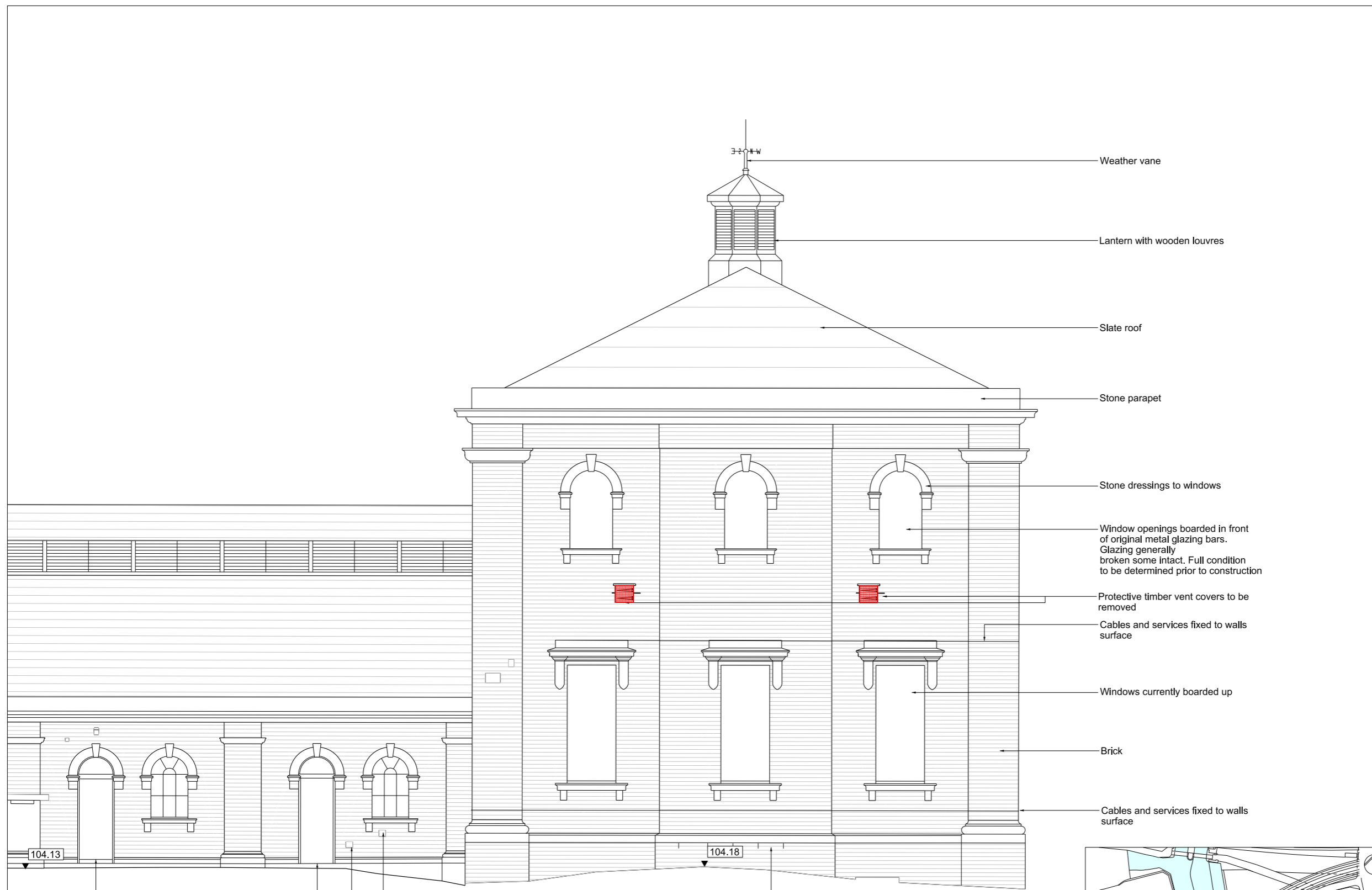
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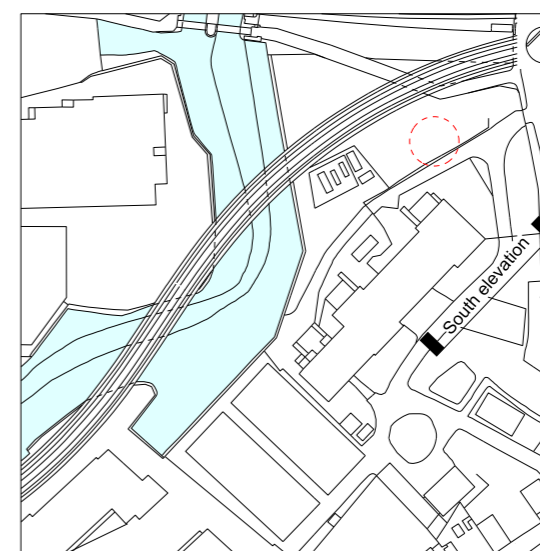
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:
 Maximum permanent extent of loss of listed buildings / structures

Notes:
 1. All dimensions and levels are approximate.
 2. Drawing is based on as-constructed drawings and topographical survey and not on heritage survey.



Existing south elevation



FOR INFORMATION
 Save for maximum extent of loss of listed structures which is for approval

Location
 Greenwich Pumping Station
 Royal Borough of Greenwich

Document Information
 Application for Development Consent
 As existing beam engine house
 South elevation with extent of loss
 Book of plans - section 24
 DCO-PP-23X-GREPS-240020
 January 2013



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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. Extent of restoration works to be confirmed pending full historic appraisal

Refurbish existing window frames .
Re-use existing glazing bars and glass where practicable. Replace to match where not. Paint window frames, colour to match original subject to 'paint analysis'.

Lantern used for natural ventilation to be refurbished and repainted

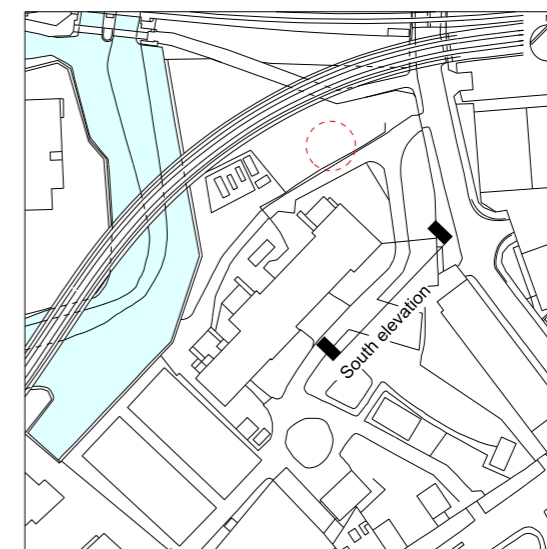
Slate roof repaired where necessary

Existing cover removed and existing opening used for tunnel ventilation outlet. Louvres and protruding metal box discharge air upwards. New metalwork to be painted to match glazing bars.



Scale 1:50 at A1
1:100 if reproduced at A3

Proposed south elevation



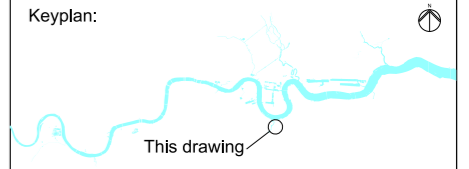
INDICATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information
Application for Development Consent
Proposed beam engine house
South elevation
Book of plans - section 24
DCO-PP-23X-GREPS-240021
January 2013

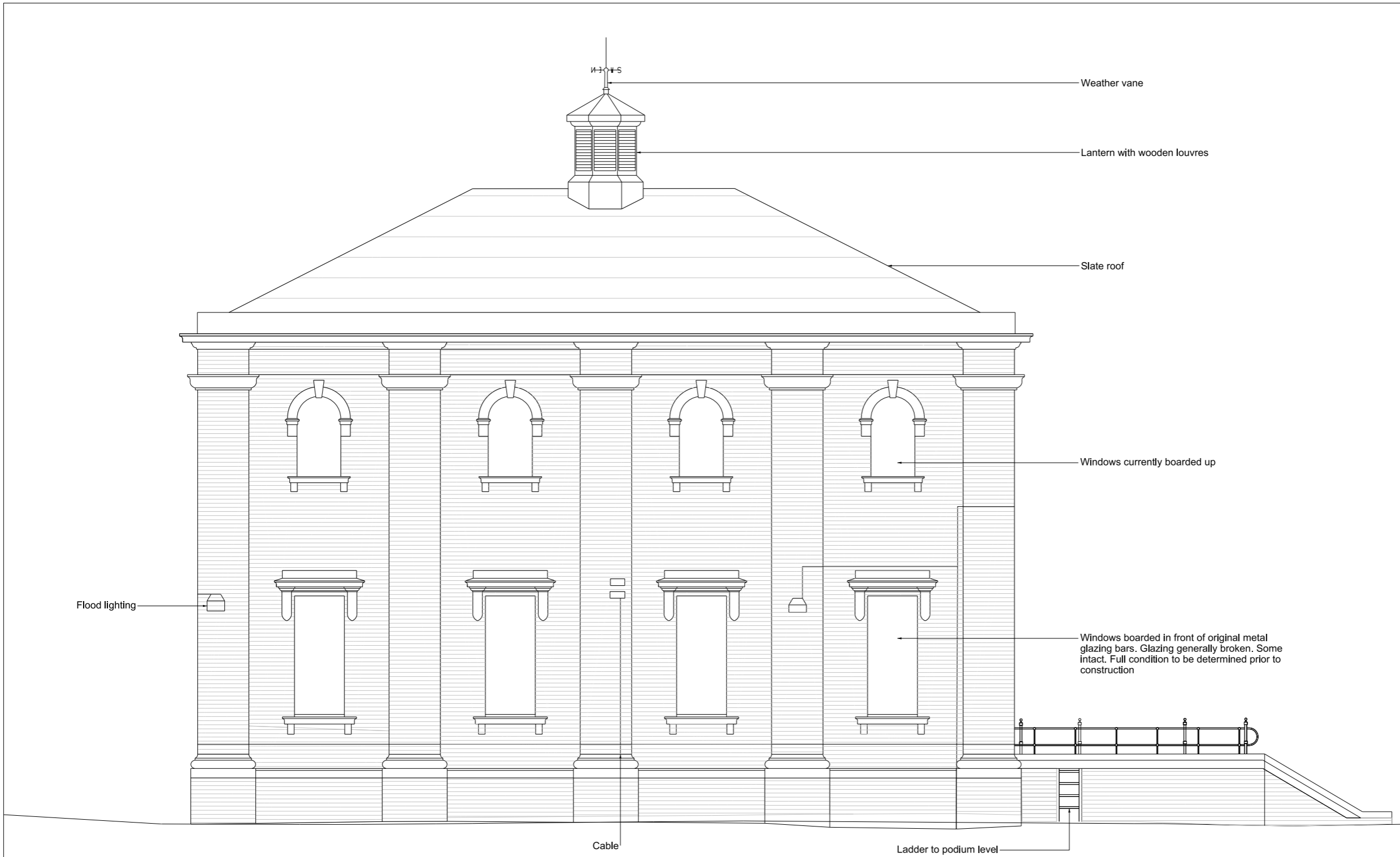


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:
1. All dimensions and levels are approximate.



1m 0 4m
Scale 1:50 at A1
1:100 if reproduced at A3

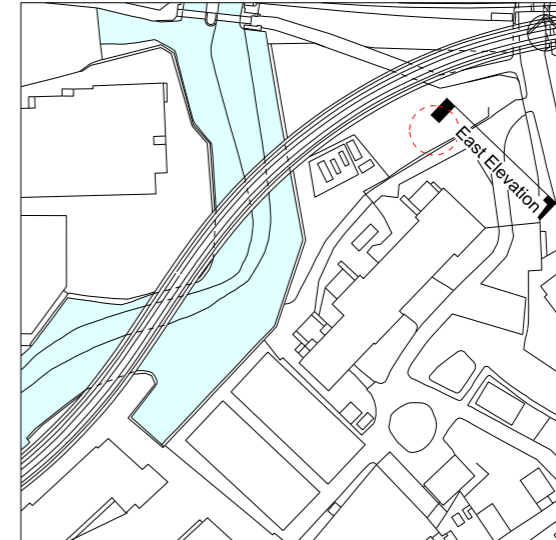
FOR INFORMATION

Location
Greenwich Pumping Station
Royal Borough of Greenwich

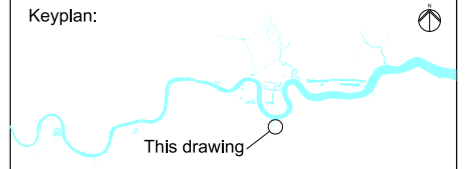
Document Information
Application for Development Consent
Beam engine house
Existing east elevation
Book of plans - section 24
DCO-PP-23X-GREPS-240022
January 2013



Existing east elevation

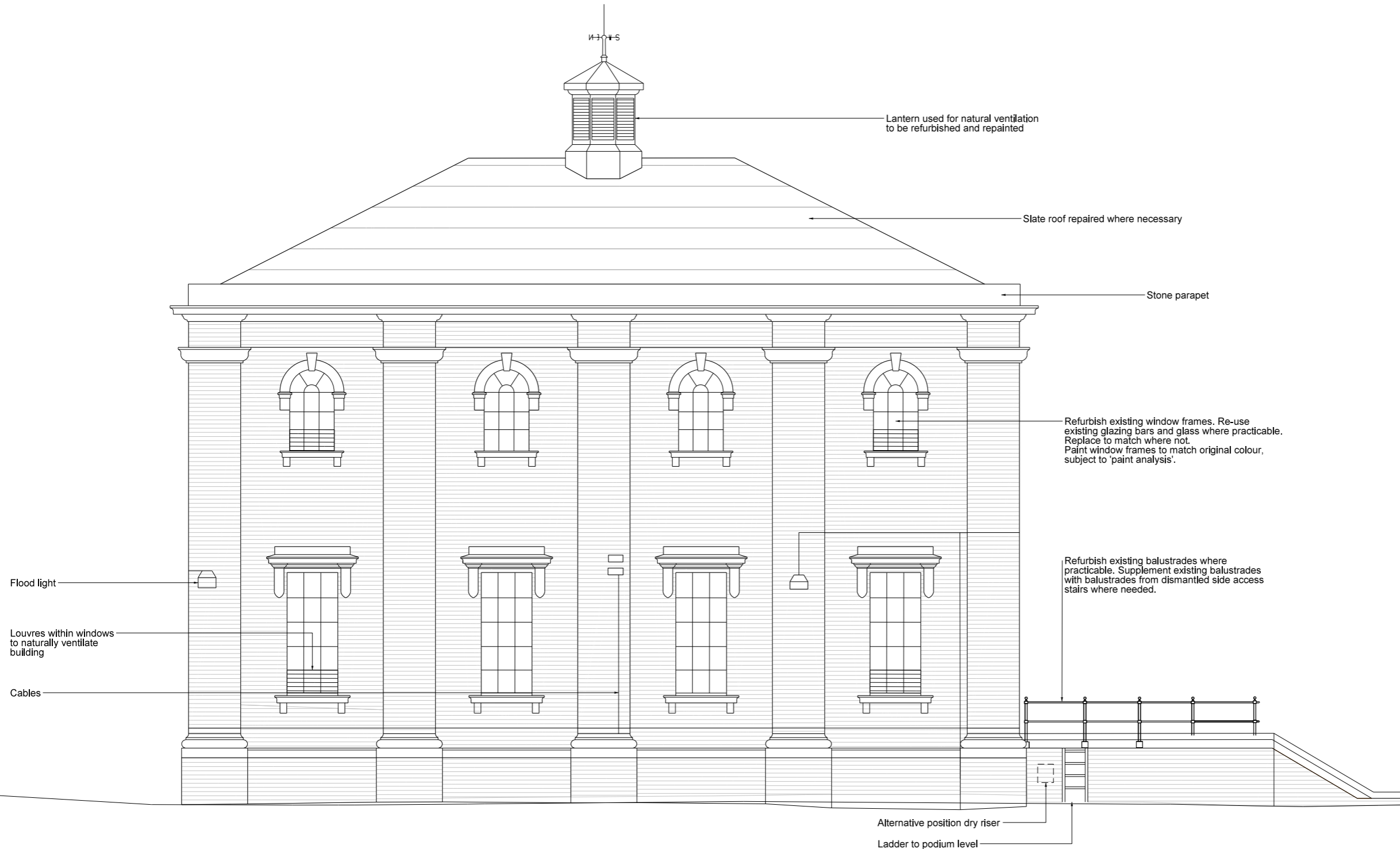


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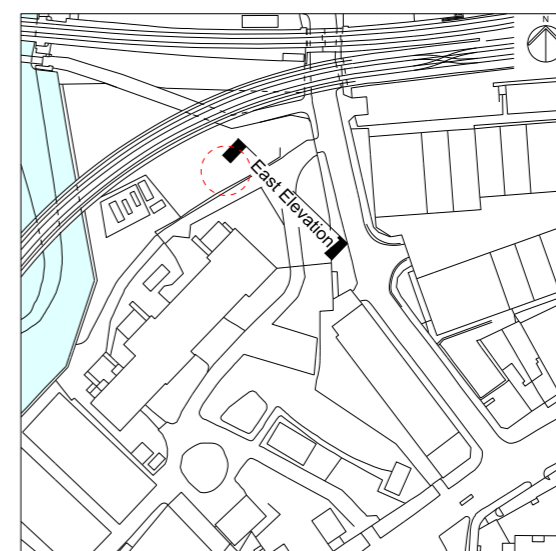
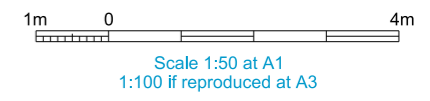


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:
1. All dimensions and levels are approximate.
2. Extent of restoration works to be confirmed pending full historic appraisal



Proposed east elevation

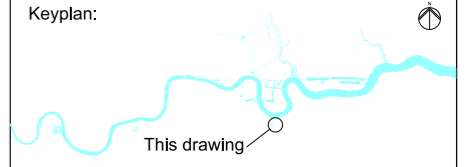


INDICATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information
Application for Development Consent
Proposed beam engine house
East elevation
Book of plans - section 24
DCO-PP-23X-GREPS-240023
January 2013

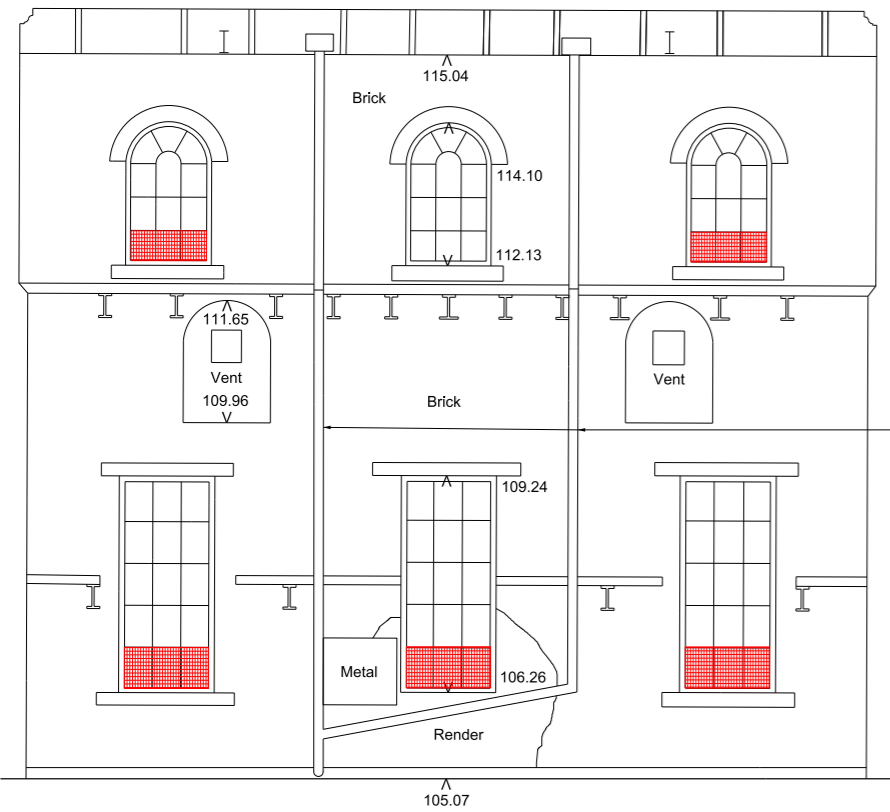




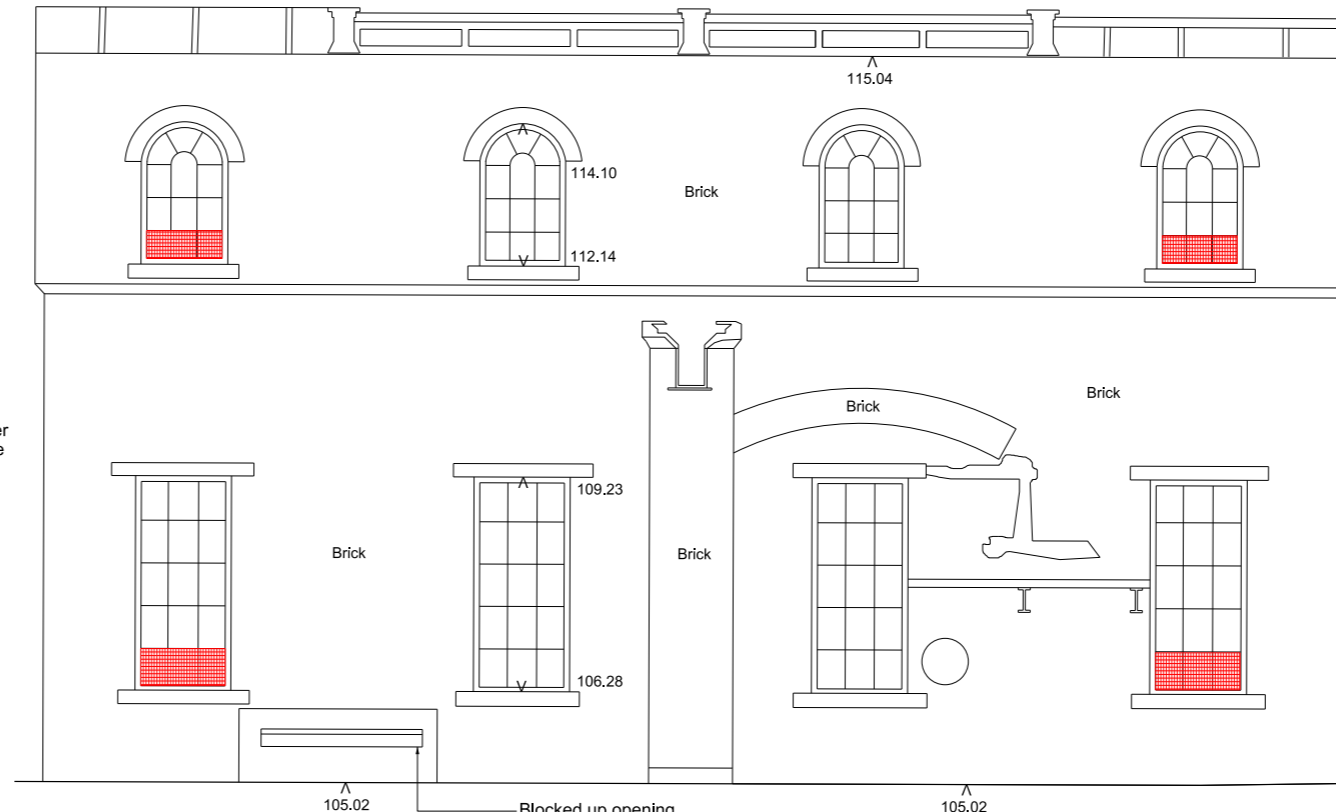
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:
 Maximum permanent extent of loss of listed buildings / structures

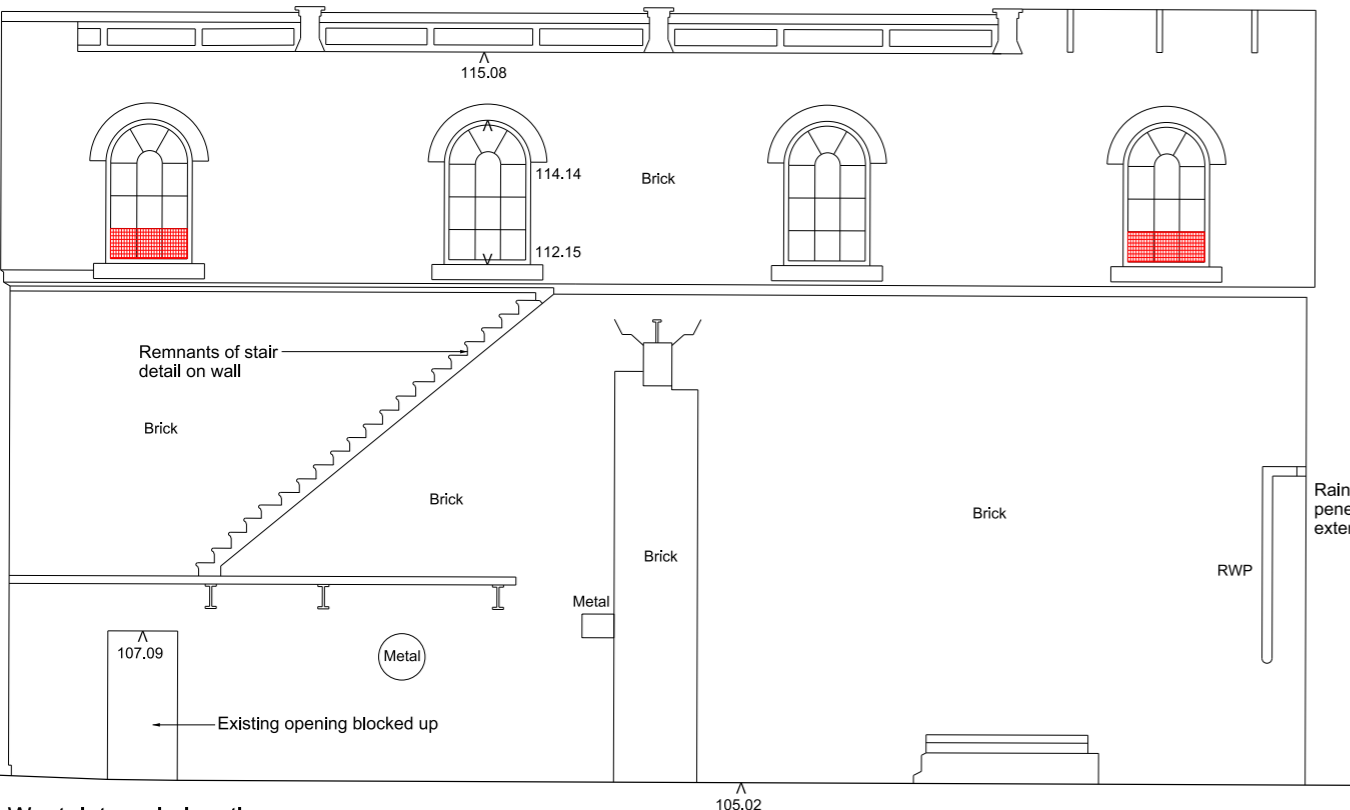
Notes:
 1. All dimensions and levels are approximate.
 2. Roof structure not included within survey



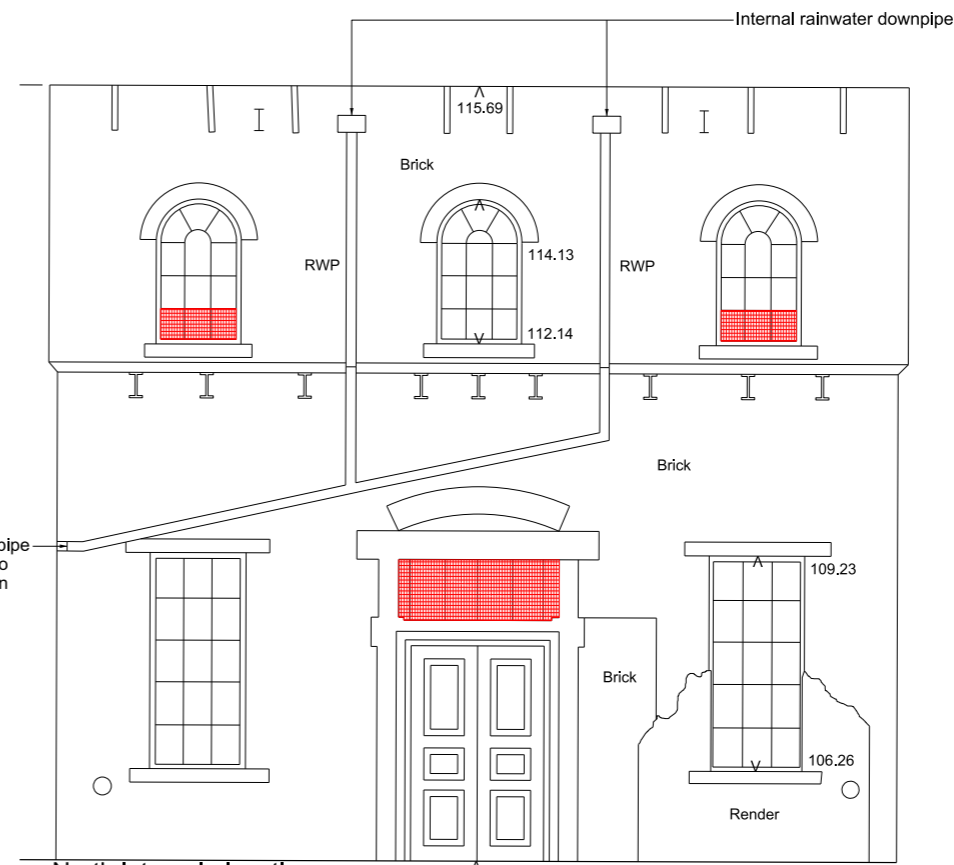
South internal elevation



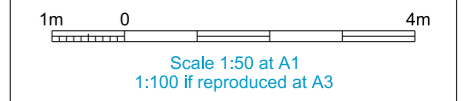
East internal elevation



West internal elevation



North internal elevation



FOR INFORMATION
 Save for maximum extent of loss of listed structures which is for approval

Location
Greenwich Pumping Station
 Royal Borough of Greenwich

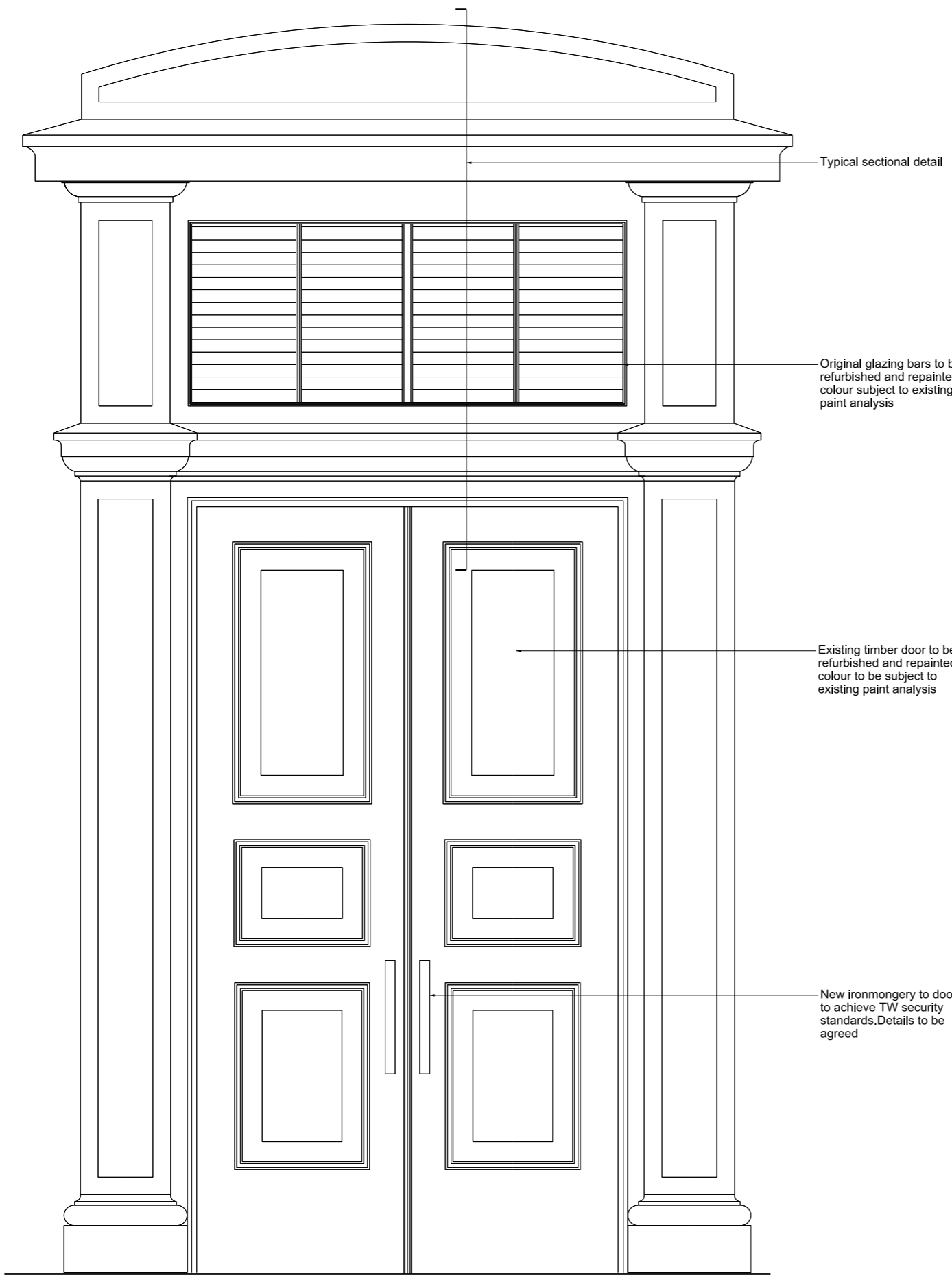
Document Information
Application for Development Consent
 Listed internal building elevations with extent of loss
 Book of plans - section 24
 DCO-PP-23X-GREPS-240024
 January 2013



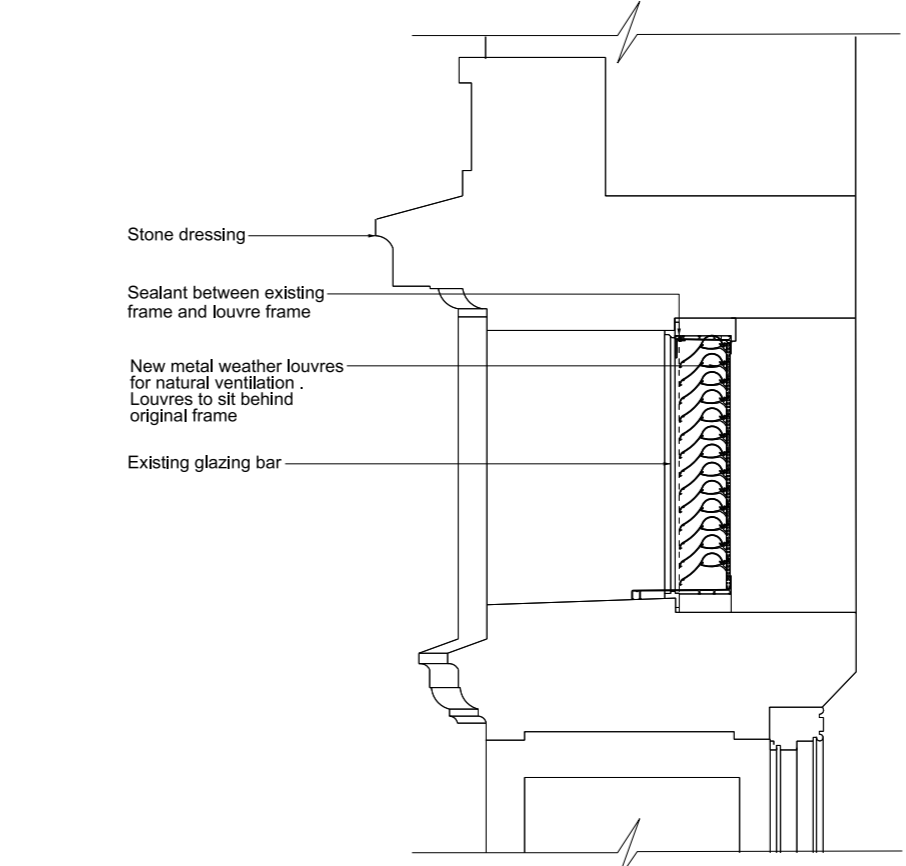


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

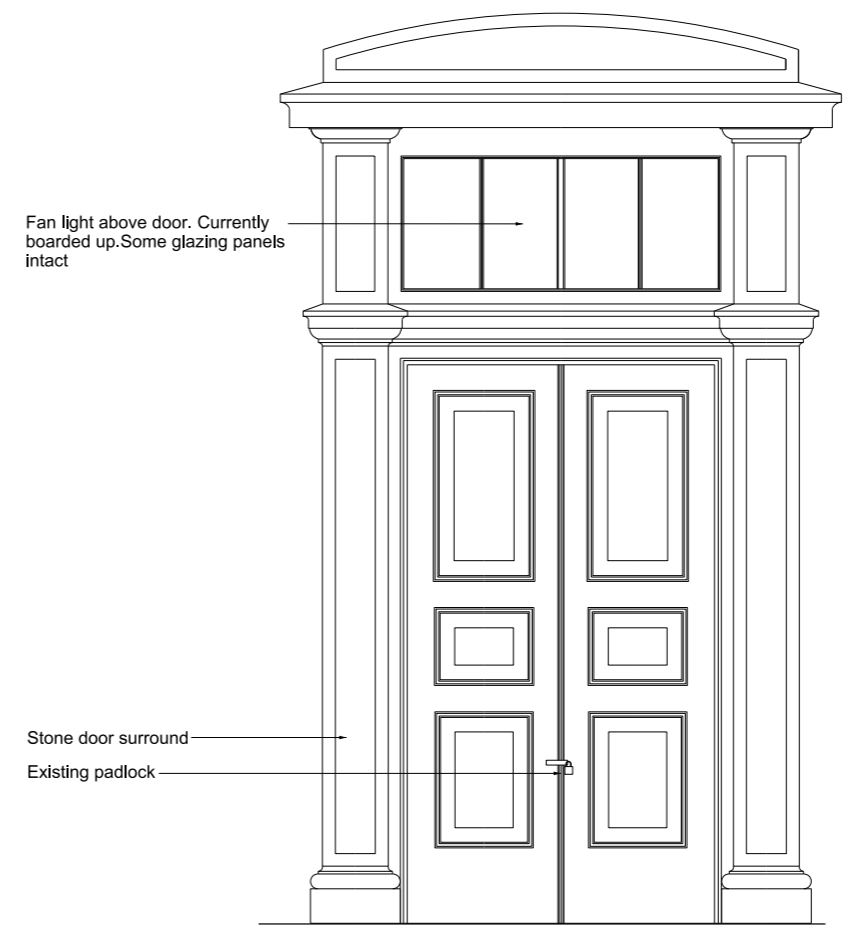
Notes:
1. All dimensions and levels are approximate.



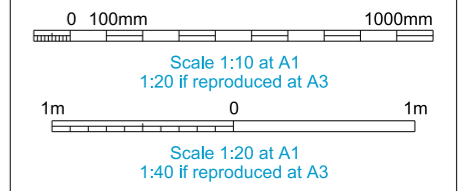
Proposed elevation (1:10 scale)



Proposed typical sectional detail (1:10 scale)



Assumed existing elevation (1:20 scale)



INDICATIVE

Location
Greenwich Pumping Station
Royal Borough of Greenwich

Document Information
Application for Development Consent
Listed structure interface - entrance door

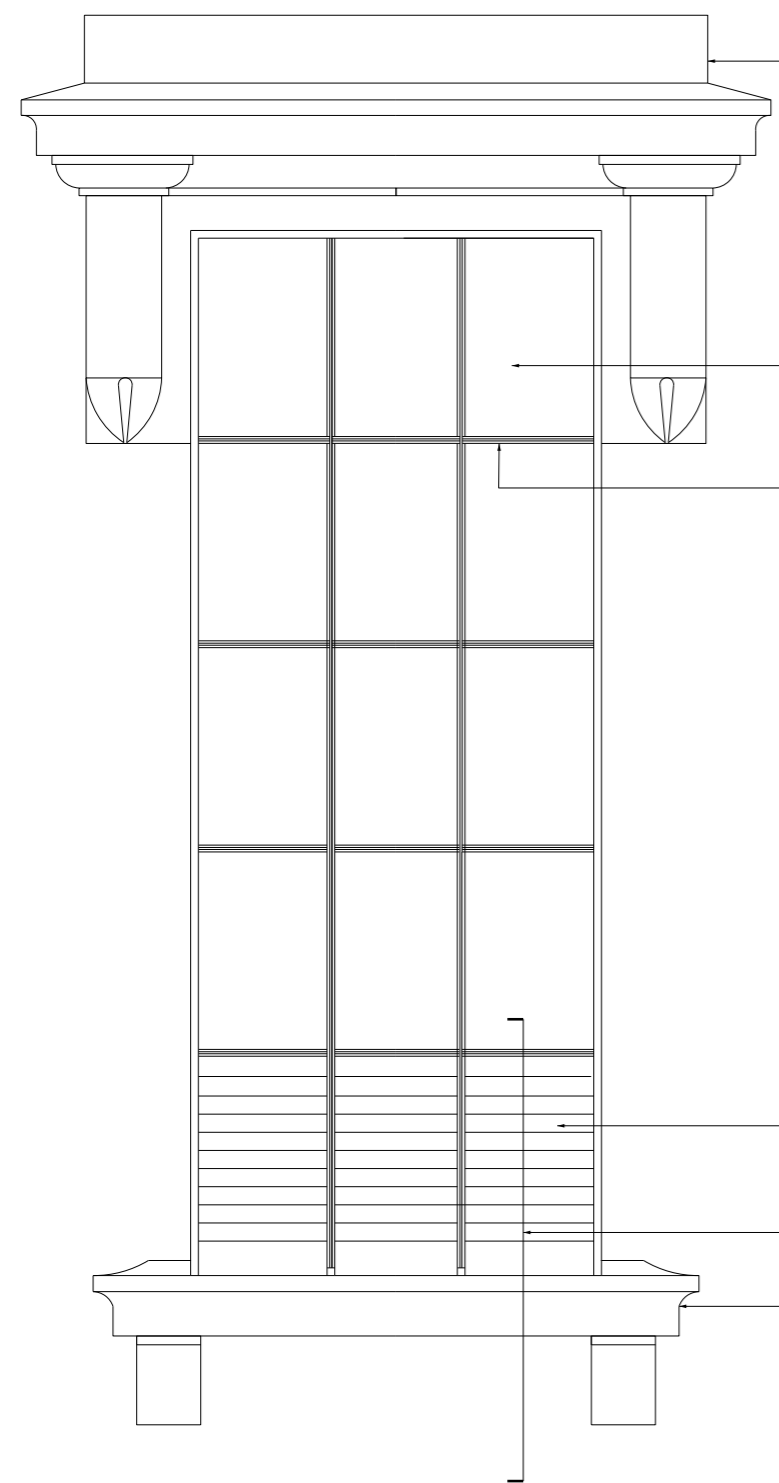
Book of plans - section 24
DCO-PP-23X-GREPS-240025
January 2013





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.
 2. Extent of restoration works is pending full historic appraisal.



Lower level window elevation
(1:10 scale)

Stone window dressing

Remove existing panels boarded up retain any intact glazing panels and replace broken glazing to match existing

Glazing bars repainted colour subject to paint analysis

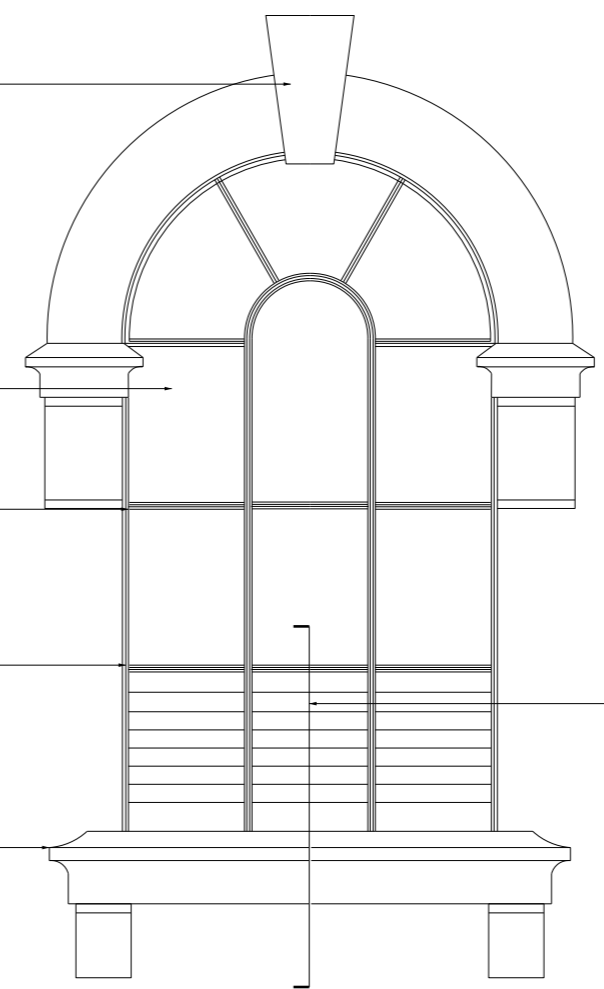
New louvres for natural ventilation, front face to sit behind original. Glazing bar colour to match, subject to existing paint analysis.

Stone sills and dressings (see note 2)

New louvres for natural ventilation front face to sit behind original glazing bars colour to be subject to existing paint analysis

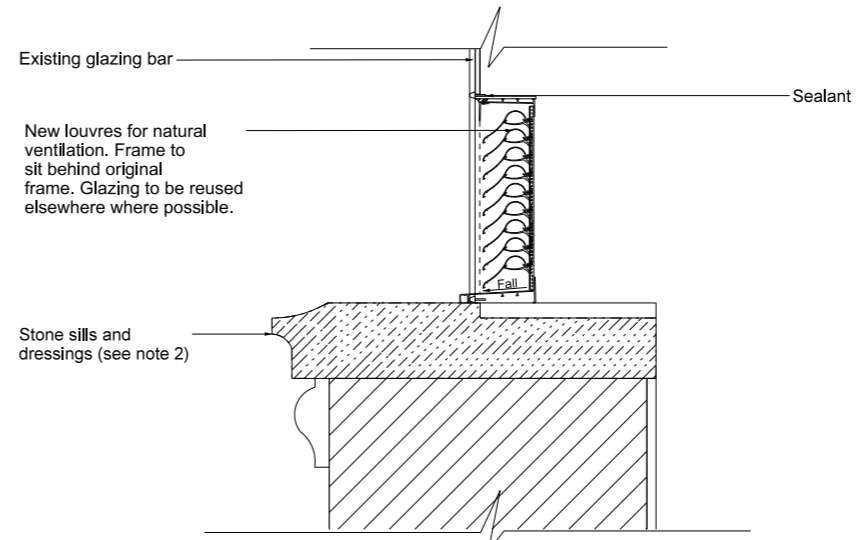
Typical sectional detail

Stone sills and dressings (see note 2)



Upper level window elevation
(1:10 scale)

Typical sectional detail



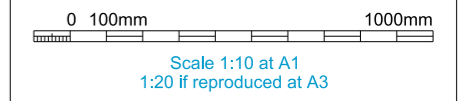
Typical sectional detail
(1:10 scale)

Existing glazing bar

New louvres for natural ventilation. Frame to sit behind original frame. Glazing to be reused elsewhere where possible.

Stone sills and dressings (see note 2)

Sealant



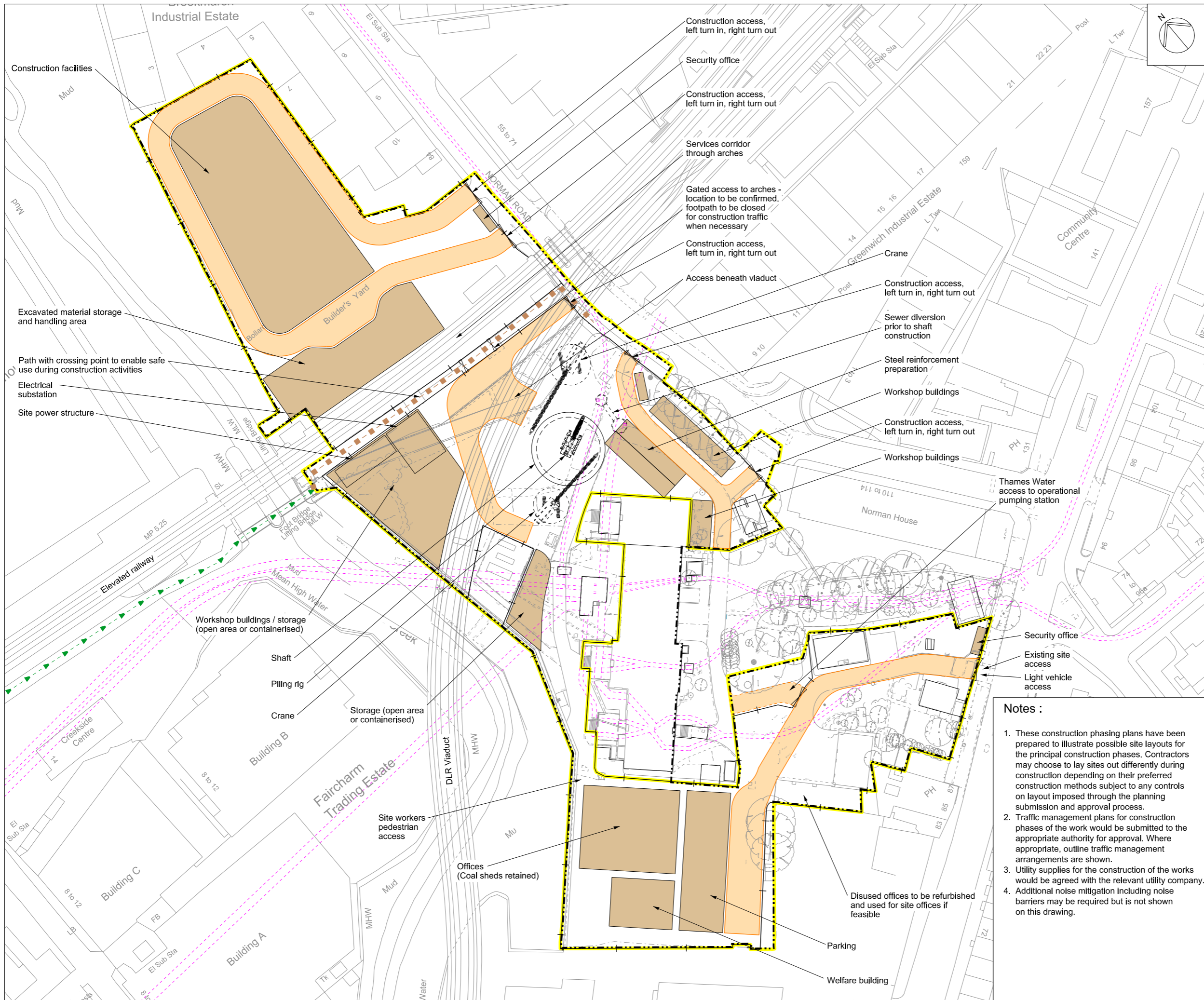
INDICATIVE

Location
Greenwich Pumping Station
 Royal Borough of Greenwich

Document Information
Application for Development Consent
 Listed structure interface - windows

Book of plans - section 24
 DCO-PP-23X-GREPS-240026
 January 2013





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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:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Site access
 - Access / haul route
 - Existing sewers

10m 0 40m

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

ILLUSTRATIVE

Location
Greenwich Pumping Station
London Borough of Lewisham

Document Information
Application for Development Consent
Construction phases - phase 1
Site setup & shaft construction
Book of plans - section 24
DCO-PP-23X-GREPS-240027
January 2013



- 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.

Construction facilities

Mud

Industrial Estate

Builder's Yard

Excavated material storage and handling area

Path with crossing point to enable safe use during construction activities

Electrical substation

Site power structure

Elevated railway

MP 5.25

Mean High Water

Workshop buildings / storage (open area or containerised)

Shaft

Piling rig

Crane

Storage (open area or containerised)

Building B

Faircharm Trading Estate

DLR Viaduct

MHW

Mud

Site workers pedestrian access

Offices (Coal sheds retained)

Building A

Building C

Water

Construction access, left turn in, right turn out

Security office

Construction access, left turn in, right turn out

Services corridor through arches

Gated access to arches - location to be confirmed. footpath to be closed for construction traffic when necessary

Construction access, left turn in, right turn out

Access beneath viaduct

Crane

Construction access, left turn in, right turn out

Sewer diversion prior to shaft construction

Steel reinforcement preparation

Workshop buildings

Construction access, left turn in, right turn out

Workshop buildings

Thames Water access to operational pumping station

Norman House

Security office

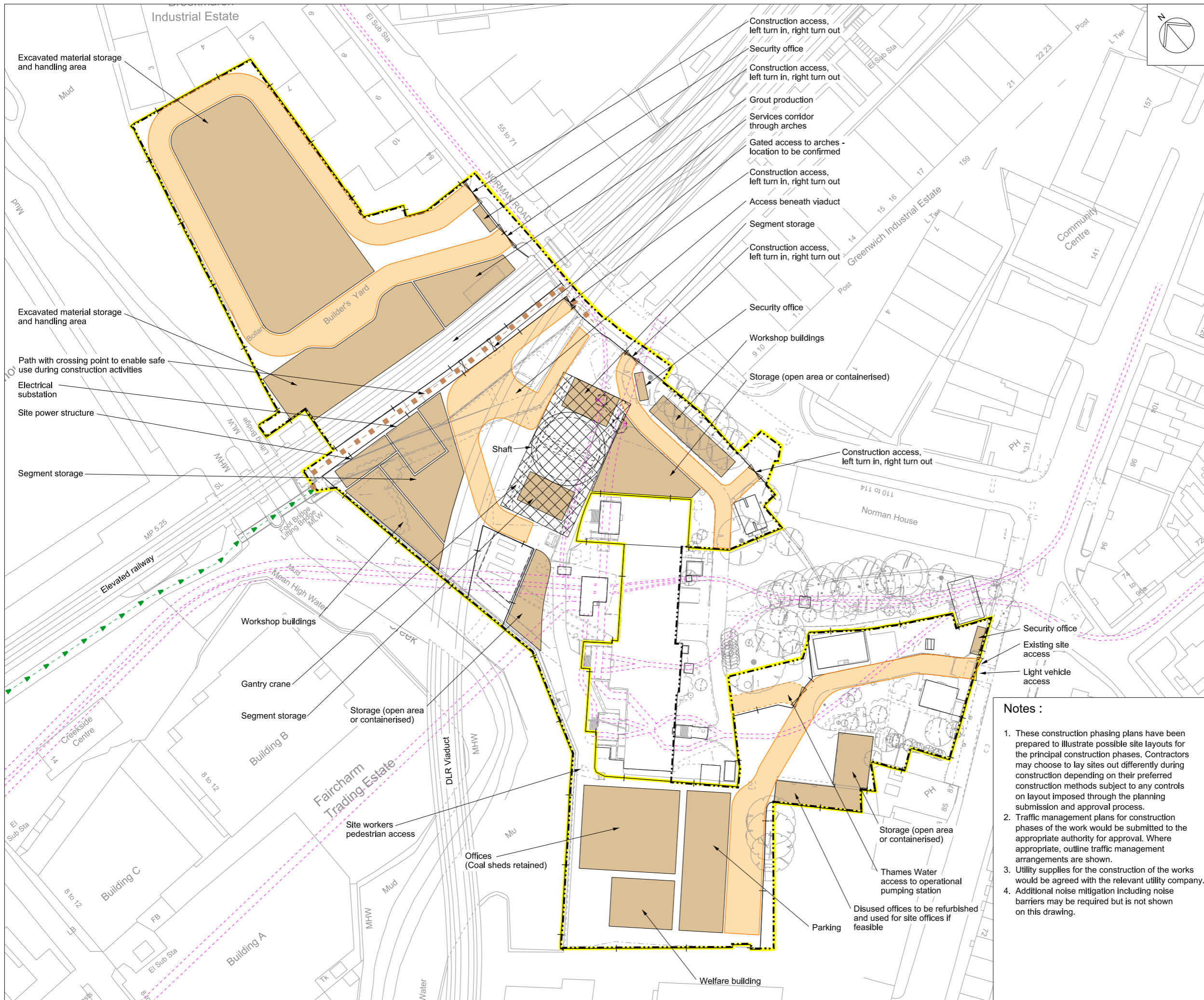
Existing site access

Light vehicle access

Disused offices to be refurbished and used for site offices if feasible

Parking

Welfare building

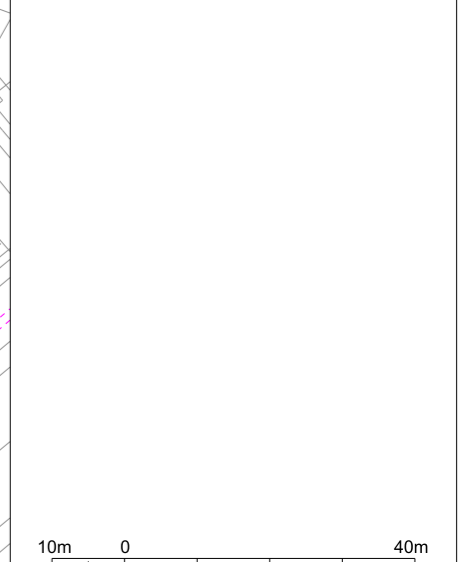


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Site access
 - Access / haul route
 - Existing sewers
 - Noise enclosure over shaft and gantry crane



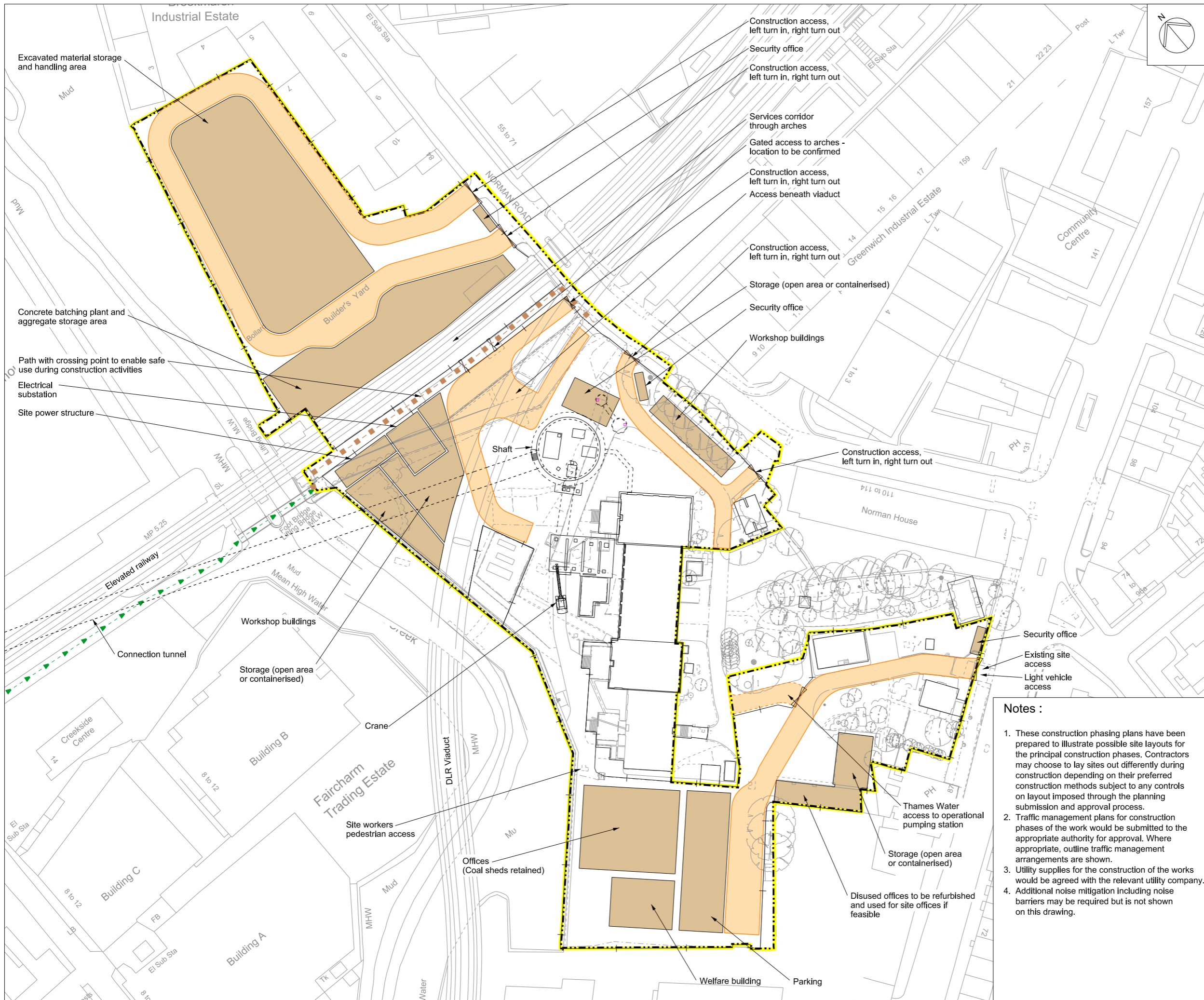
- Notes :**
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 2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 3. Utility supplies for the construction 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
Greenwich Pumping Station
London Borough of Lewisham

Document Information
Application for Development Consent
Construction phases - phase 2
Tunnelling
Book of plans - section 24
DCO-PP-23X-GREPS-240028
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



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

10m 0 40m

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

ILLUSTRATIVE

Location
Greenwich Pumping Station
London Borough of Lewisham

Document Information
Application for Development Consent
Construction phases - phase 3
Construction of other structures
Book of plans - section 24
DCO-PP-23X-GREPS-240029
January 2013



- 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.



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Keyplan:

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

Key

Existing

- On street parking
- Bus stop / stand
- Pedestrian crossing
- Cycle lane / advance stop line

Revised

- L.L.A.U.
- Vehicle crossover area
- Temporary closure of footpath
- Temporary footpath
- GREPS_C01 See schedule of works
- Site access

On street parking

Pay & display pay & display parking maximum 4 hours mon - sat 9:00am - 5:00pm sun 9:00am - 6:00pm	Permit holders (1) resident & business permit holders only mon - sat 9:00am - 5:00pm sun 9:00am - 6:00pm Permit holders (2) resident & business permit holders only mon - fri 9:00am - 10:00pm
---------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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
Construction

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

ILLUSTRATIVE

Location
Greenwich pumping station
Royal Borough of Greenwich

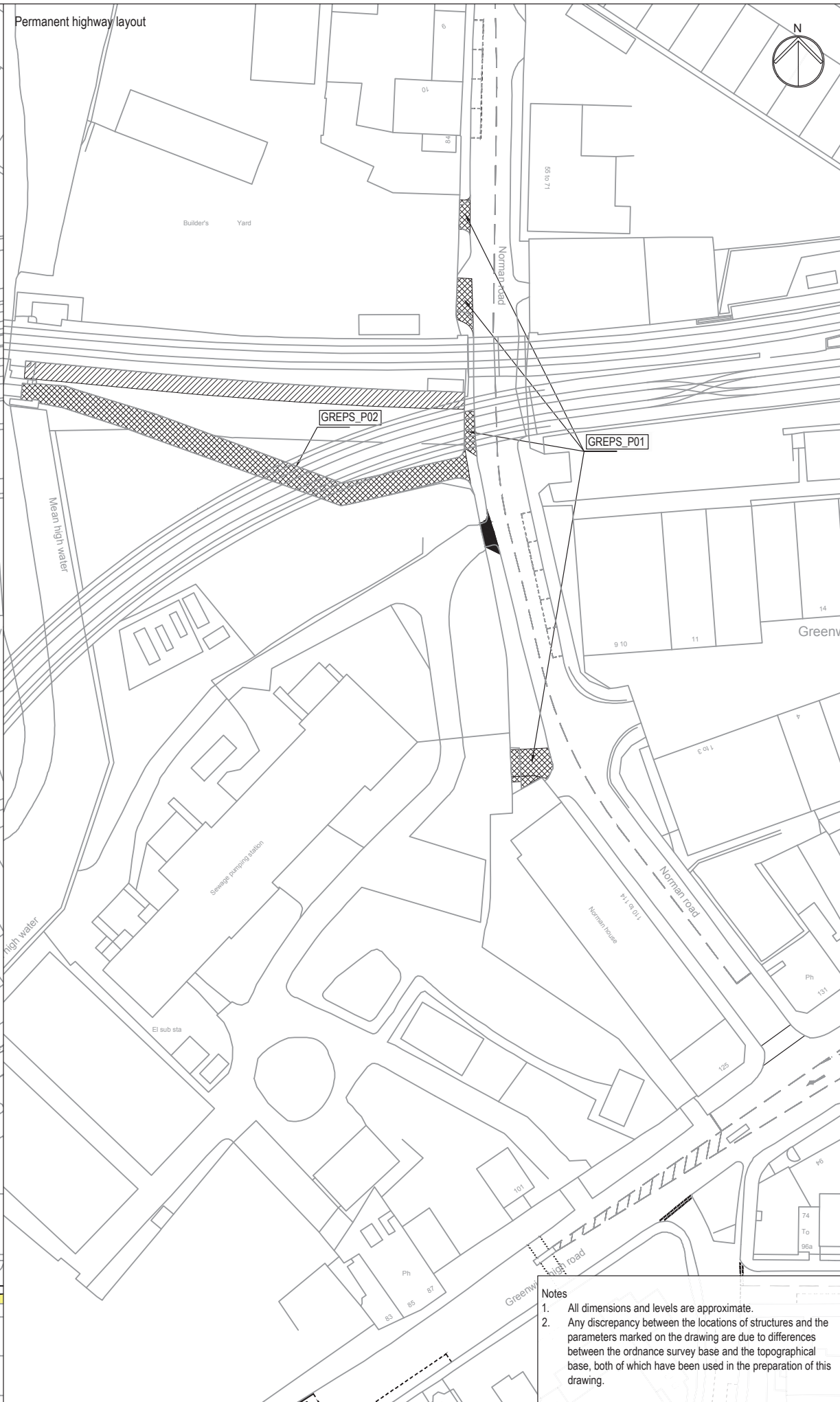
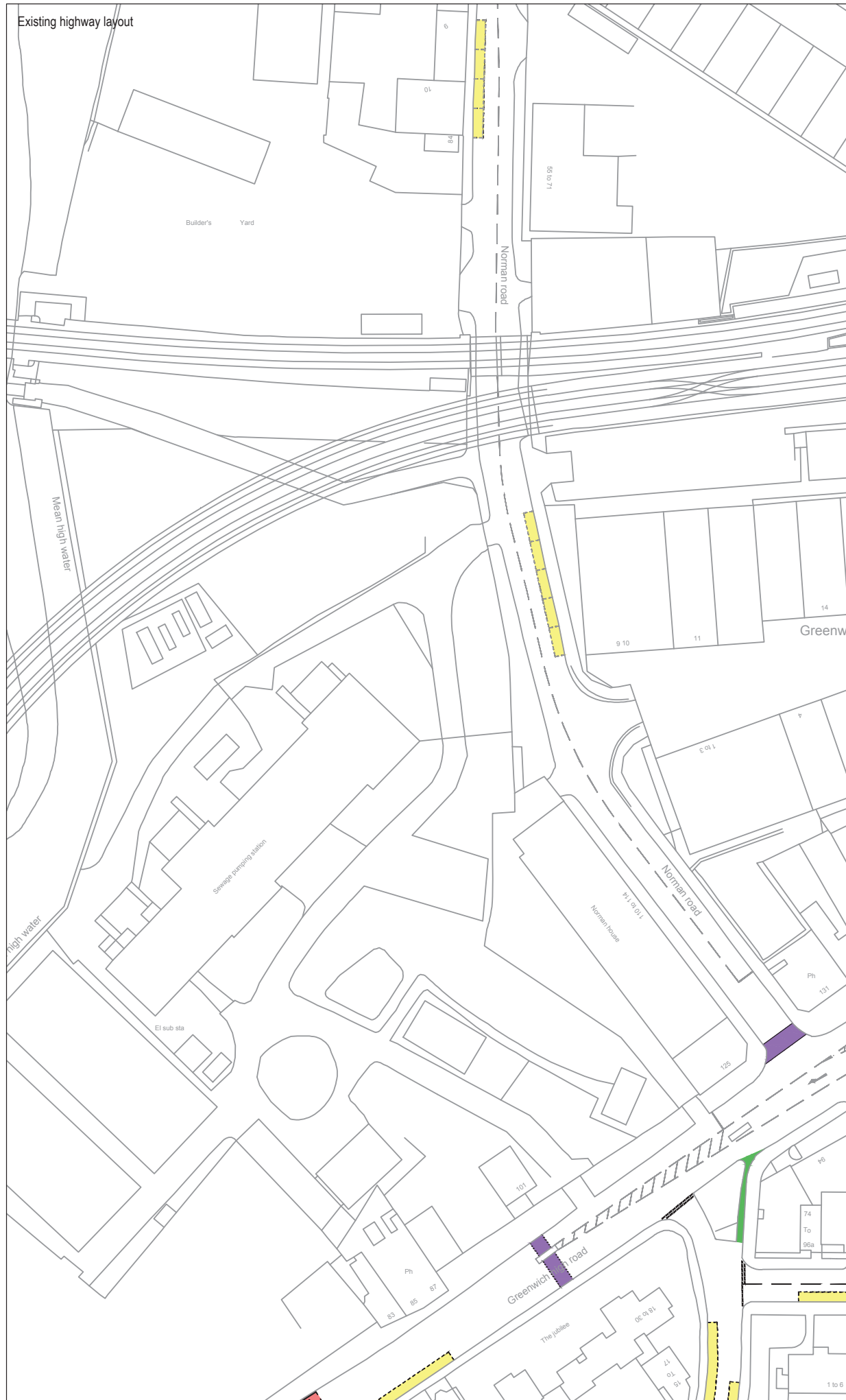
Document Information
Application for Development Consent
Highway layout during construction

DCO-PP-23X-GREPS-240033
January 2013

Notes

- All dimensions and levels are approximate.
- 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.

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



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Keyplan:

This drawing

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Key

Existing

- On street parking
- Bus stop / stand
- Pedestrian crossing

Revised

- Reinstated footway / vehicle crossover
- Temporary footway removed
- Vehicle crossover. (Permanent access point)
- GREPS_P01 See schedule of works

On street parking

Permit holders (1)
resident & business permit holders only
mon - sat 9.00am - 5.00pm
sun 9.00am - 6.00pm

Permit holders (2)
resident & business permit holders only
mon - fri 9.00am - 10.00pm
Pay & display
pay & display parking
maximum 4 hours
mon - sat 9.00am - 5.00pm
sun 9.00am - 6.00pm

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
Permanent

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

ILLUSTRATIVE

Location
Greenwich pumping station
Royal Borough of Greenwich

Document Information
Application for Development Consent
Permanent highway layout

DCO-PP-23X-GREPS-240034
January 2013

Notes

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Thames Water Utilities Limited

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