

Thames Tideway Tunnel  
Thames Water Utilities Limited



# Application for Development Consent

Application Reference Number: WWO10001

## Book of Plans

Doc Ref: **2.19**

### **Blackfriars Bridge Foreshore**

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

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

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## Application for Development Consent: Book of Plans

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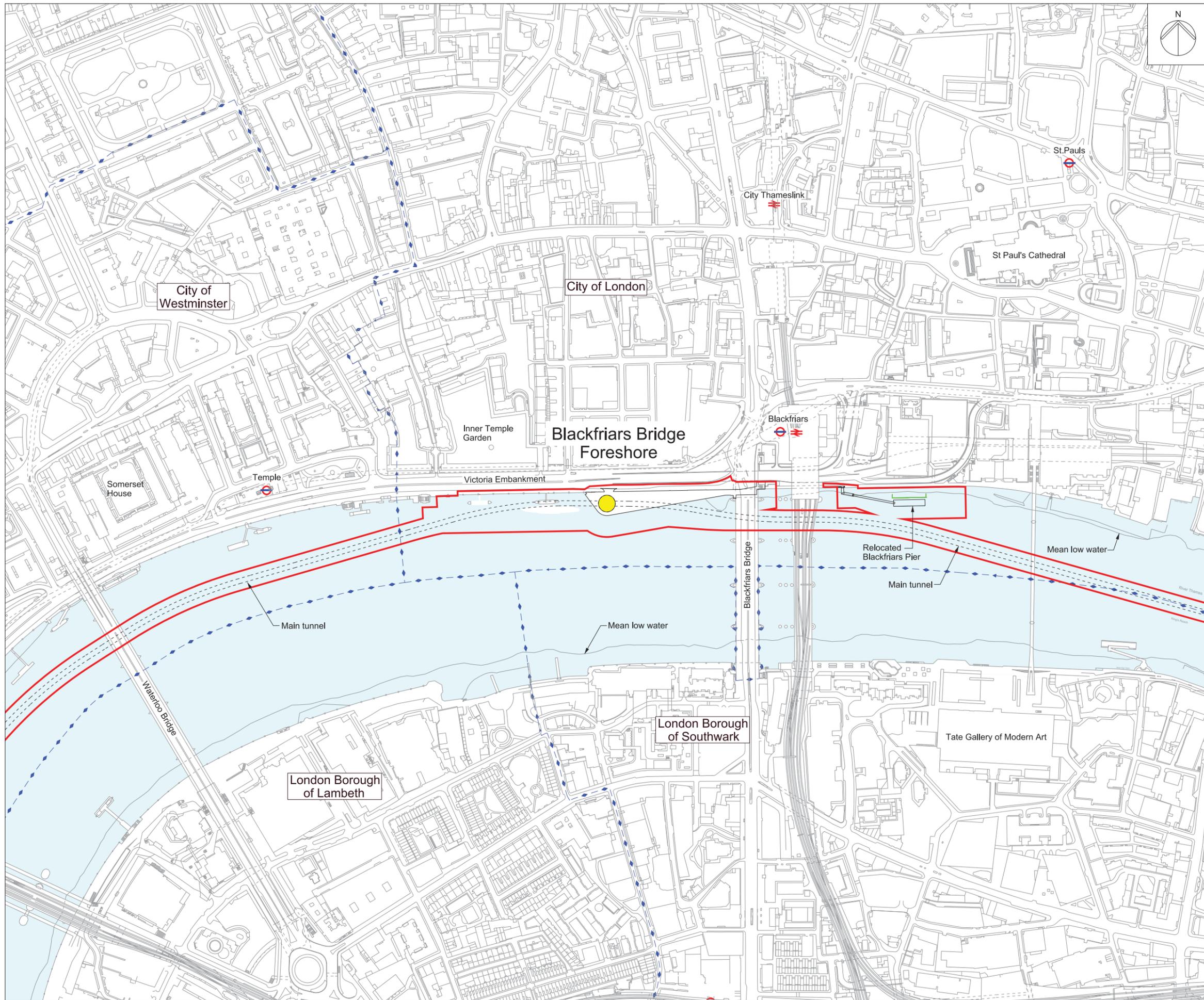
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Volume 4

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

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Permanent highway layout*		DCO-PP-17X-BLABF-190063



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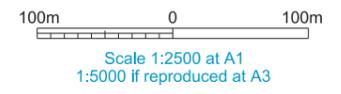


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

Notes:

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



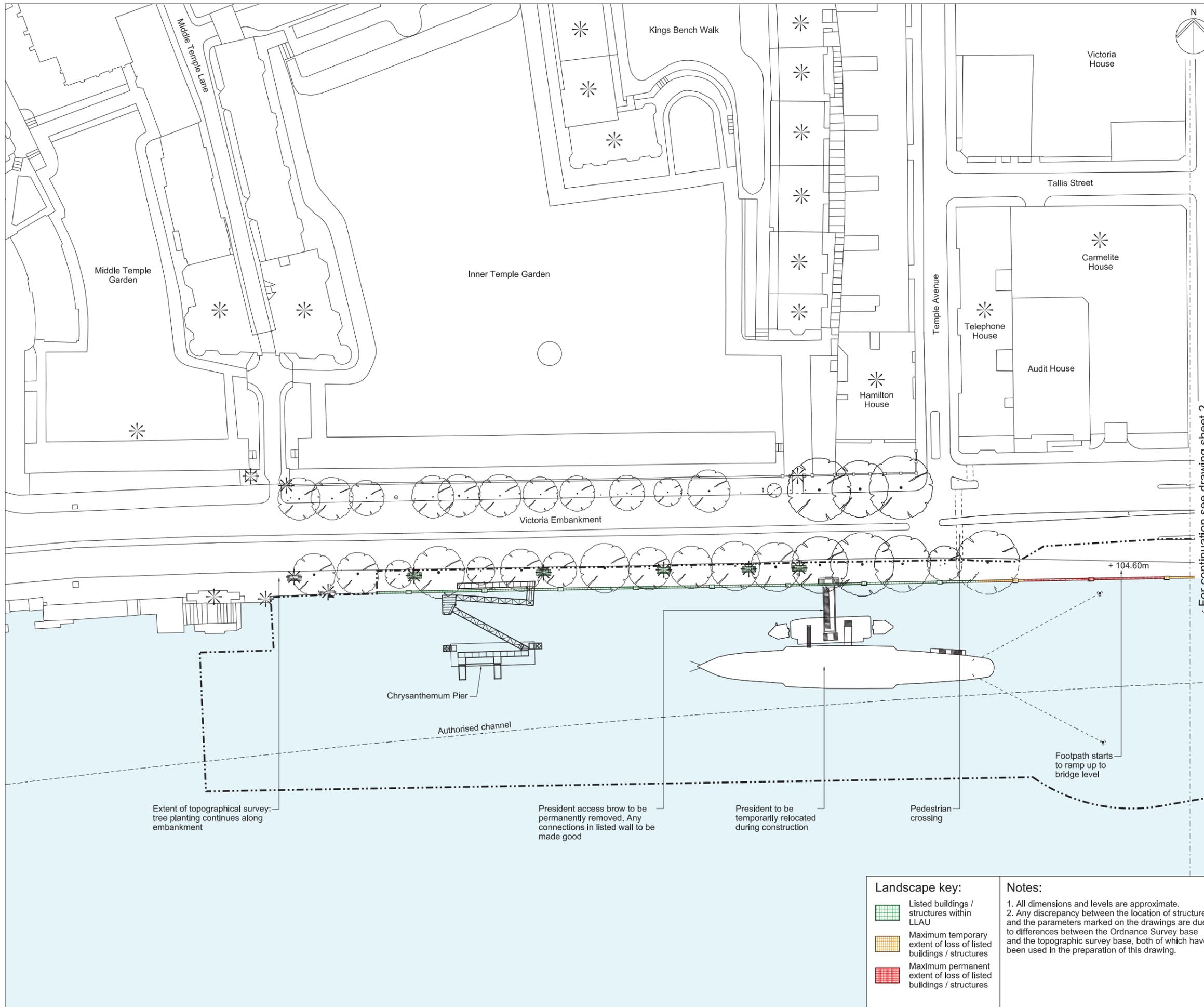
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

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

Book of plans - section 19  
 DCO-PP-17X-BLAF-190001  
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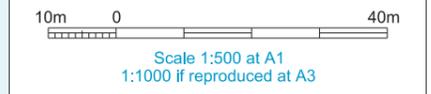
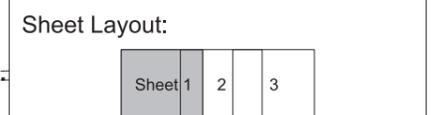


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:
- Limits of land to be acquired or used (LLAU)
  - Authorised channel
  - Listed buildings/structures
  - Existing trees within surveyed area (trunk sizes vary)



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**Blackfriars Bridge Foreshore**  
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As existing site features plan  
 Sheet 1 of 3  
 Book of plans - section 19  
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- Landscape key:**
- Listed buildings / structures within LLAU
  - Maximum temporary extent of loss of listed buildings / structures
  - Maximum permanent extent of loss of listed buildings / structures

**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.

Extent of topographical survey: tree planting continues along embankment

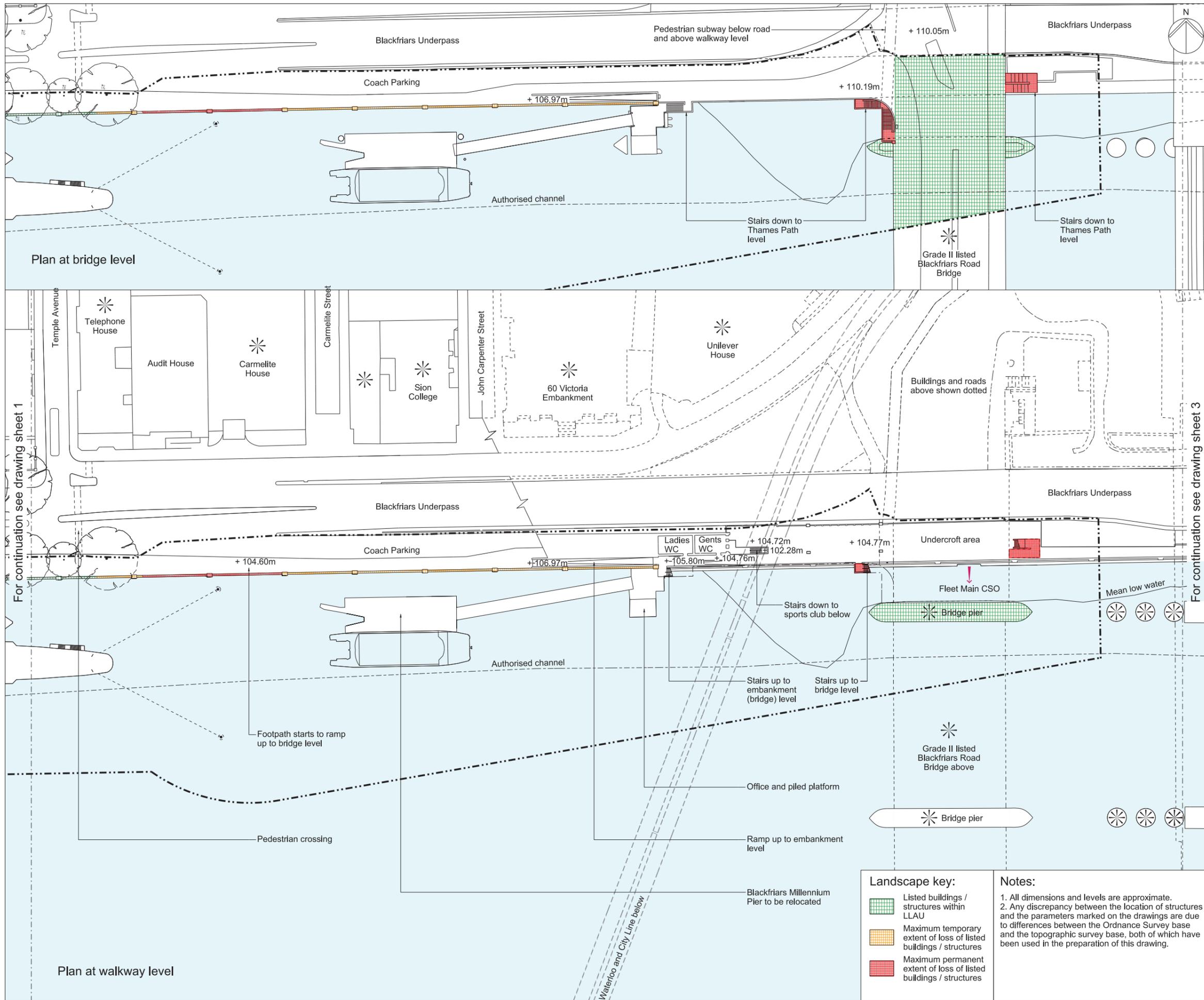
President access brow to be permanently removed. Any connections in listed wall to be made good

President to be temporarily relocated during construction

Pedestrian crossing

Footpath starts to ramp up to bridge level

For continuation see drawing sheet 2

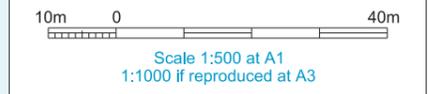
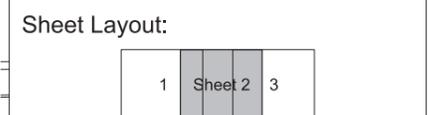


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Keyplan:  
This drawing

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)
  - - - Authorised channel
  - + 105.40m Existing levels (shown in metres above tunnel datum)
  - \* Listed buildings/structures
  - Approximate position of CSO outlet
  - ⊙ Existing trees within surveyed area (trunk sizes vary)



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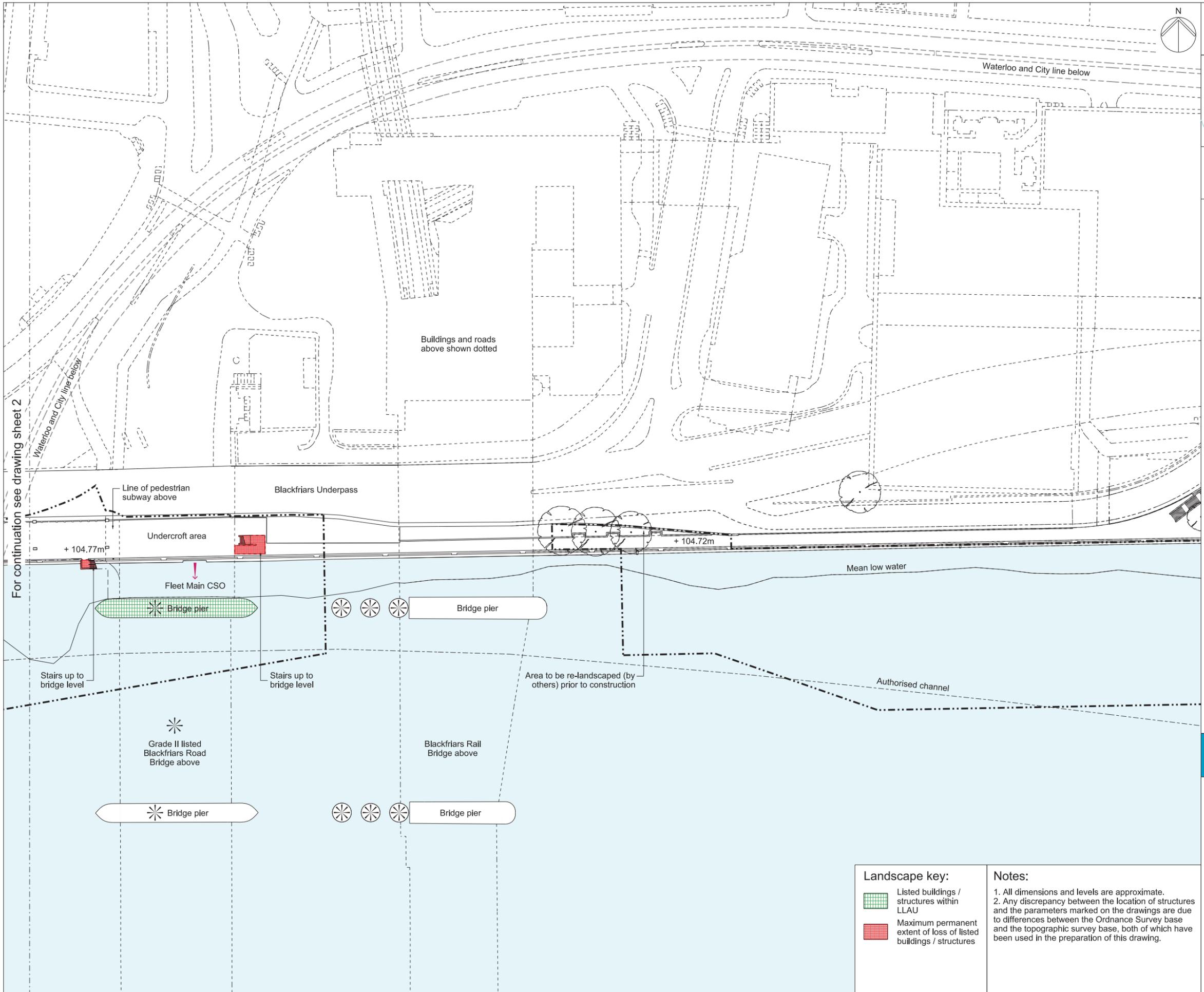
- Landscape key:**
- Listed buildings / structures within LLAU
  - Maximum temporary extent of loss of listed buildings / structures
  - Maximum permanent extent of loss of listed buildings / structures

**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.

For continuation see drawing sheet 1

For continuation see drawing sheet 3



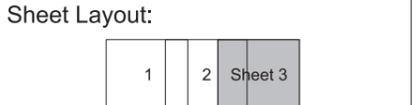
For continuation see drawing sheet 2

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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Authorised channel
  - + 105.40m Existing levels (shown in metres above tunnel datum)
  - Listed buildings/structures
  - Approximate position of CSO outlet
  - Existing trees within surveyed area (trunk sizes vary)



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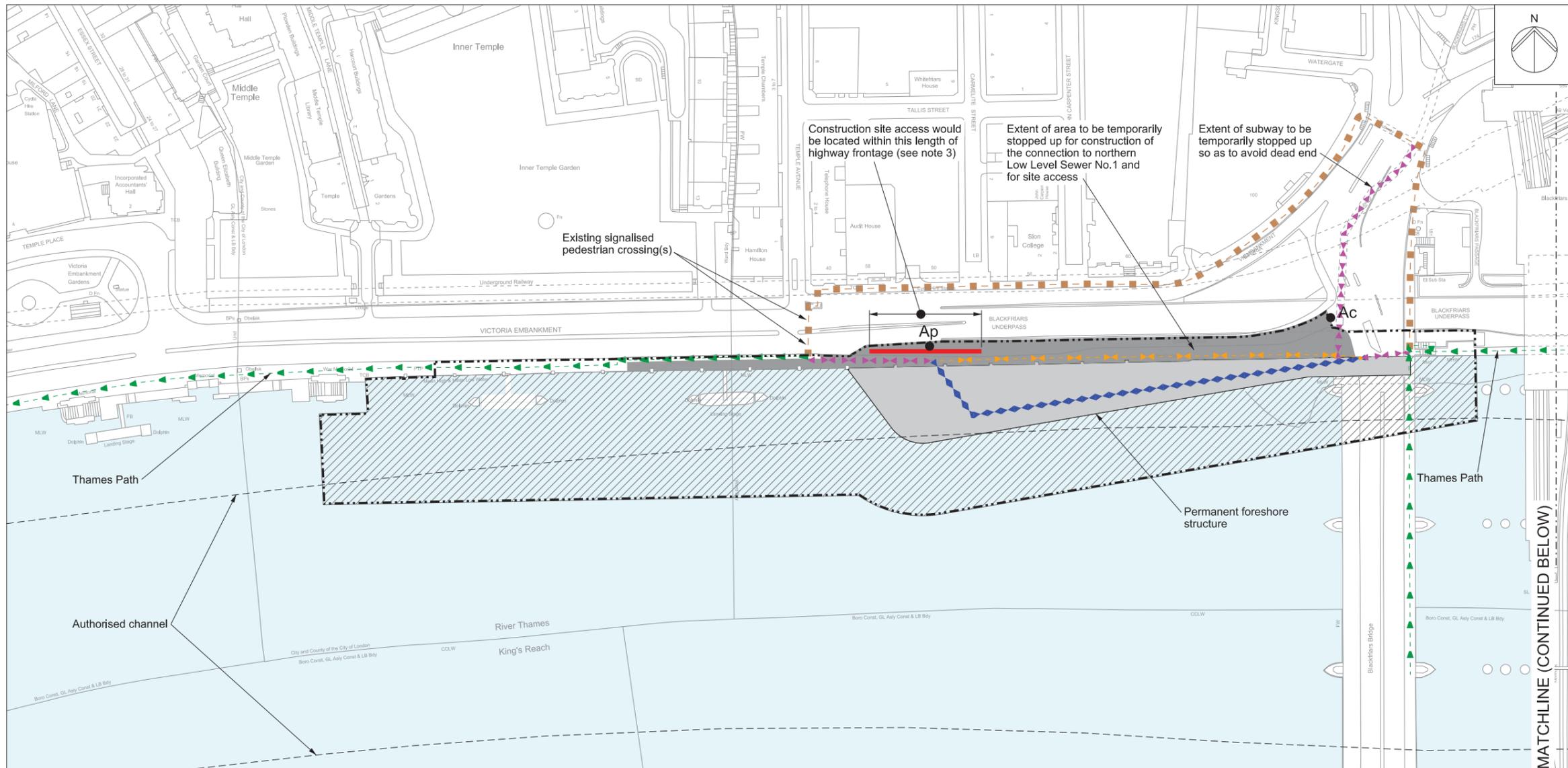
As existing site features plan  
 Sheet 3 of 3  
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 January 2013



- Landscape key:**
- Listed buildings / structures within LLAU
  - Maximum permanent extent of loss of listed buildings / structures

**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.

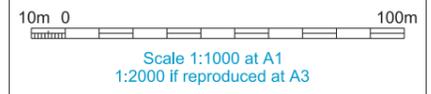


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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Existing public right of way
  - Route of temporary diversion of right of way
  - Existing right of way temporarily stopped up
  - Provision of permanent permissive right of way
  - Existing public right of way permanently stopped up
  - Area of highway to be temporarily stopped up
  - Area of temporary suspension of public rights of navigation
  - Area of permanent extinguishment of public rights of navigation
  - Ap Access to permanent works
  - Ac Access to construction works
  - Highway frontage within which access would be located

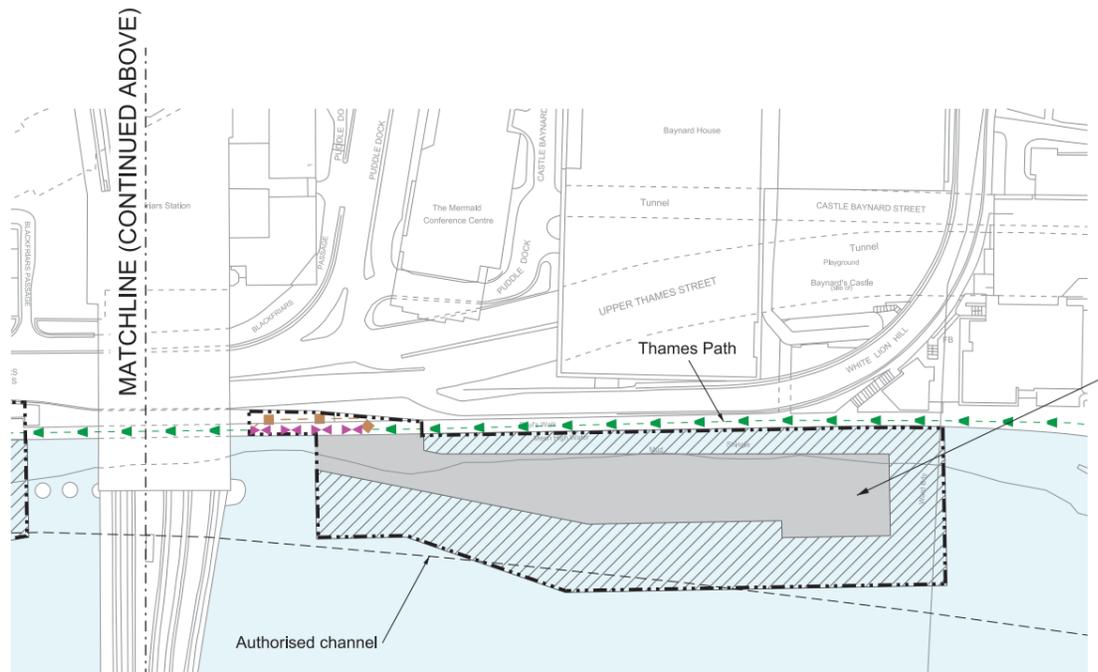


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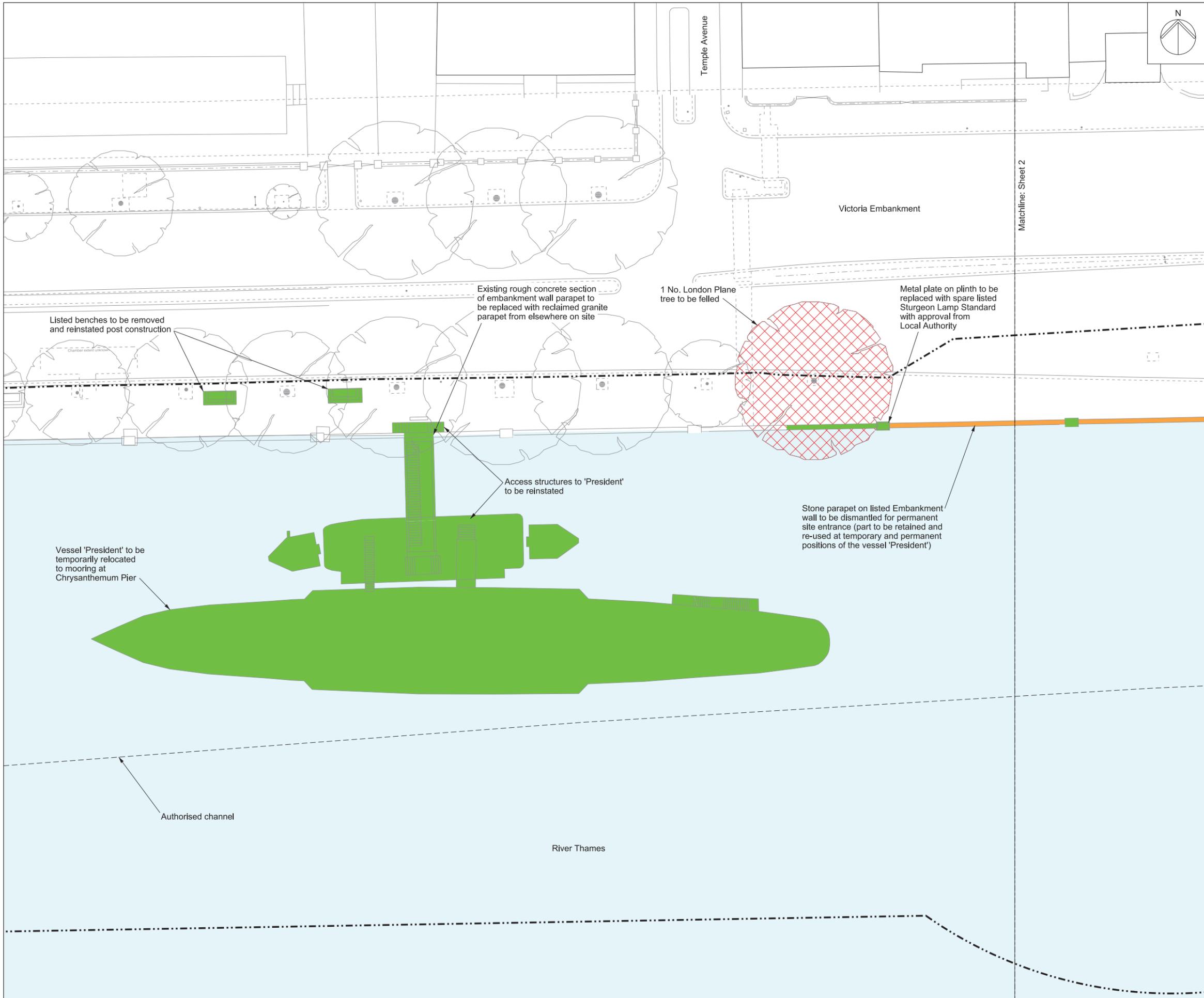
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**Blackfriars Bridge Foreshore**  
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**Document Information**  
**Application for Development Consent**  
 Access plan

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 January 2013



- Notes:**
1. This plan does not show stopping up and diversions of limited duration (e.g. 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.
  3. The point of the construction site access would be moved from time to time within this length of highway frontage to enable construction of the development.



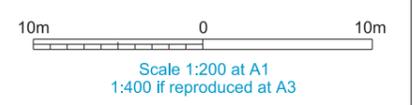
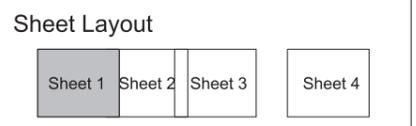
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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Trees to be removed
  - Above ground structures to be removed
  - Structure to be removed and relocated or reinstated

- 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.
  3. All listed Sturgeon Lamp Standards and benches to be carefully removed and stored securely off site until reinstatement.

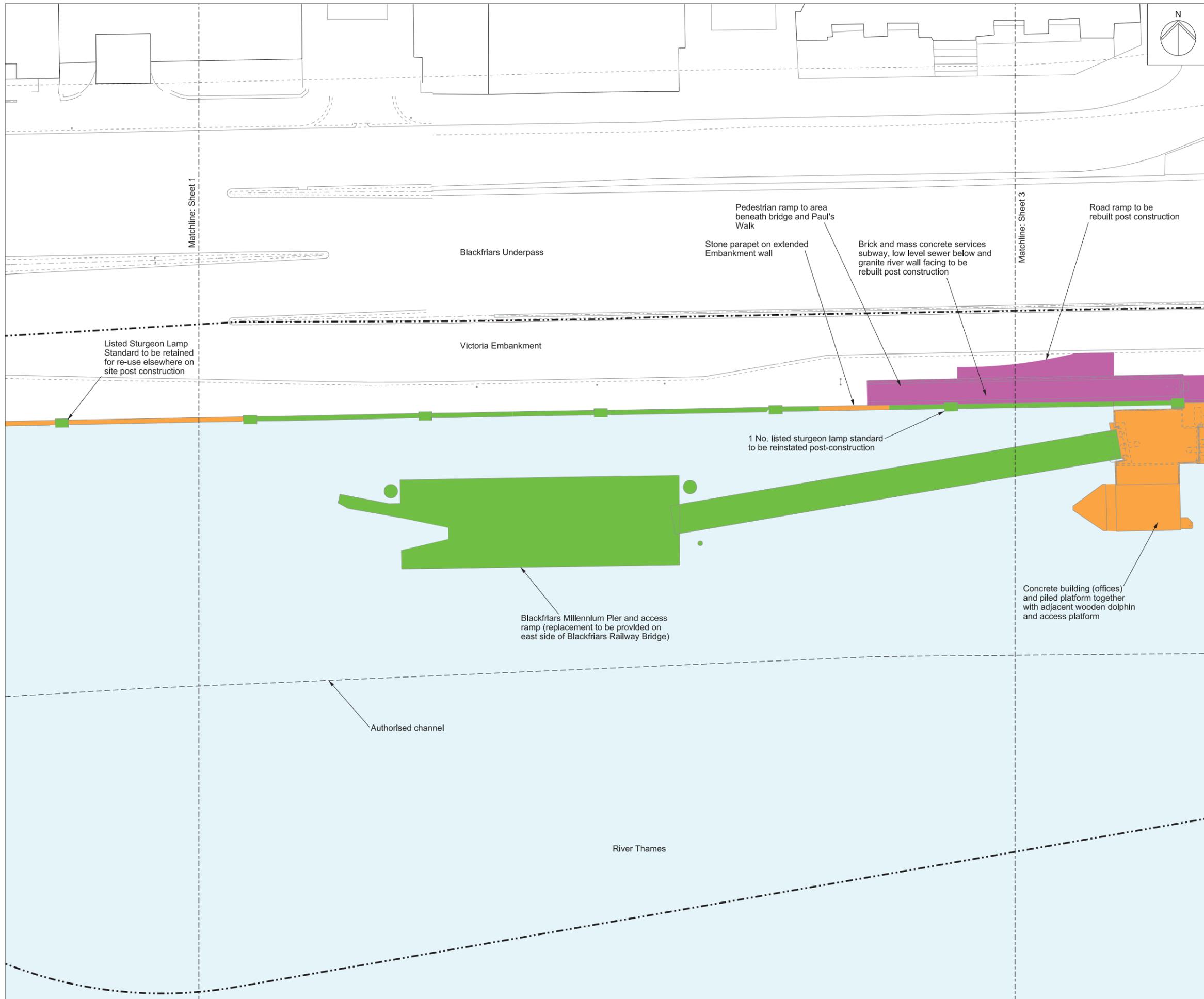


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Blackfriars Bridge Foreshore  
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**Application for Development Consent**  
Demolition and site clearance  
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January 2013





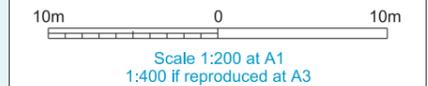
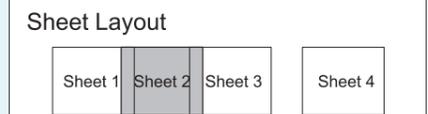
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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Above ground structures to be removed
  - Below ground structures to be removed or infilled
  - Structure to be removed and relocated or reinstated

- 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.
  3. All listed Sturgeon Lamp Standards and benches to be carefully removed and stored securely off site until reinstatement.



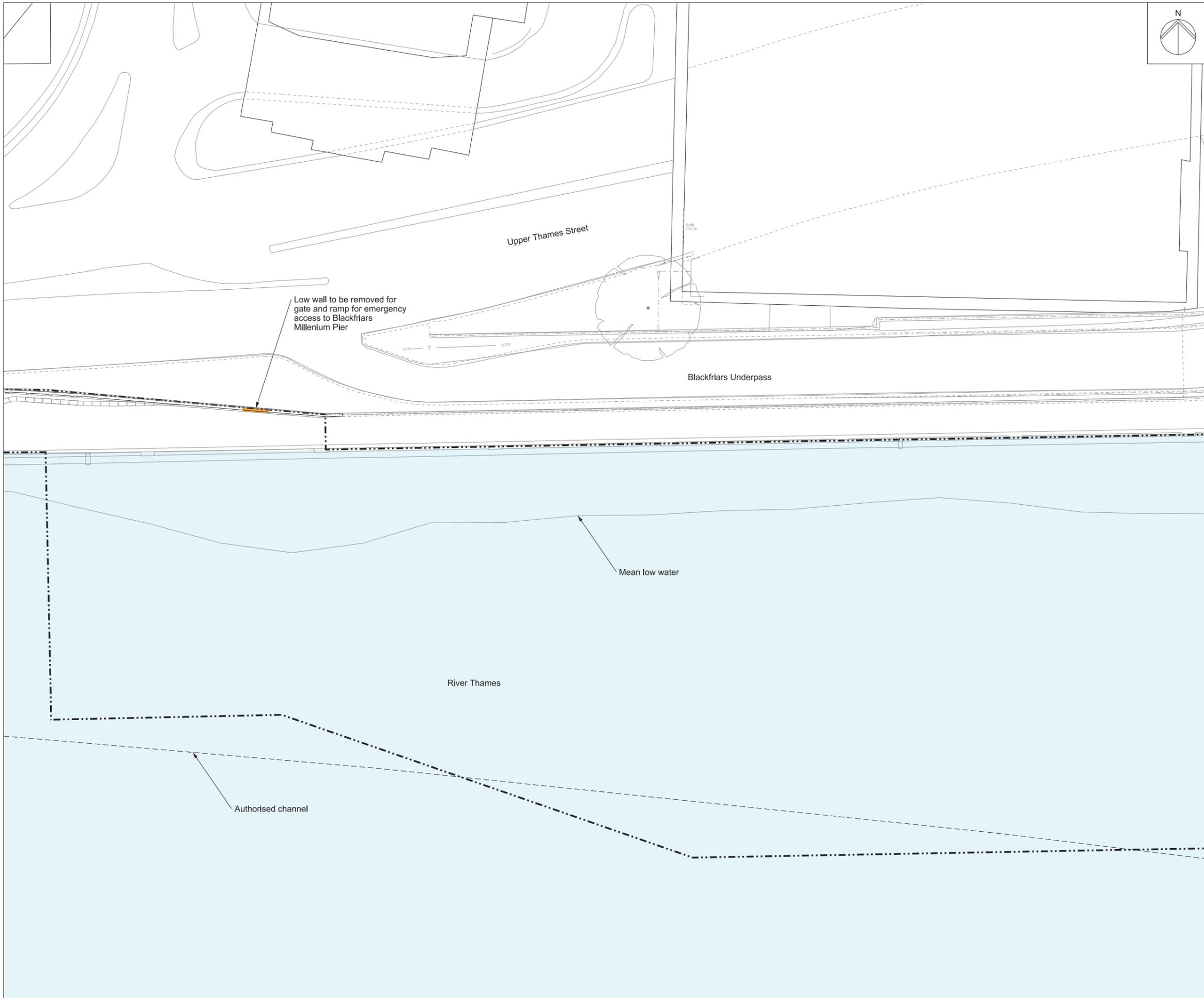
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 Demolition and site clearance  
 Sheet 2 of 4  
 Book of plans - section 19  
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 January 2013







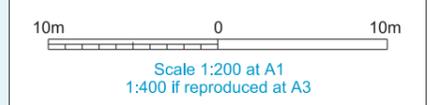
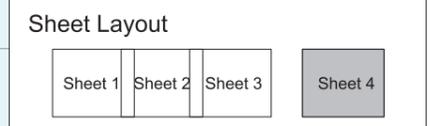
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- Key:
- Limits of land to be acquired or used (LLAU)
  - Orange box Above ground structures to be removed

- Notes:
1. All listed Sturgeon Lamp Standards and benches to be carefully removed and stored securely off site until reinstatement.
  2. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
  3. 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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 City of London

**Document Information**  
**Application for Development Consent**  
 Demolition and site clearance  
 Sheet 4 of 4  
 Book of plans - section 19  
 DCO-PP-17X-BLABF-190009  
 January 2013



Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Ventilation column(s) serving the shaft	8.0m (4.0m)
Ventilation column(s) serving existing Northern Low Level Sewer No. 1	6.0m
Ventilation column(s) serving Fleet Connection Culvert	8.0m (4.0m)
Electrical and control kiosk(s) at embankment level	2.5m
Electrical and control kiosk(s) under bridge ramp	3.0m

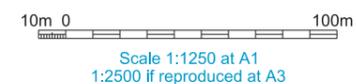
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Zone within which all permanent site structures would be located
  - Zone within which 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
  - Maximum extent of top of river/parapet wall
  - Maximum extent of temporary works platform

- 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.

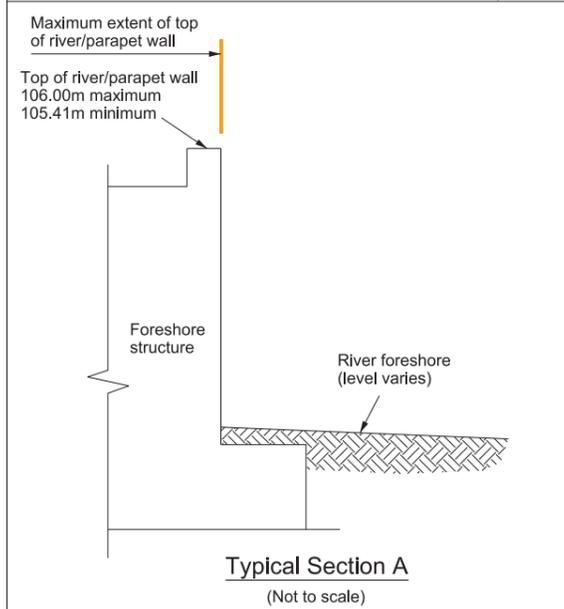
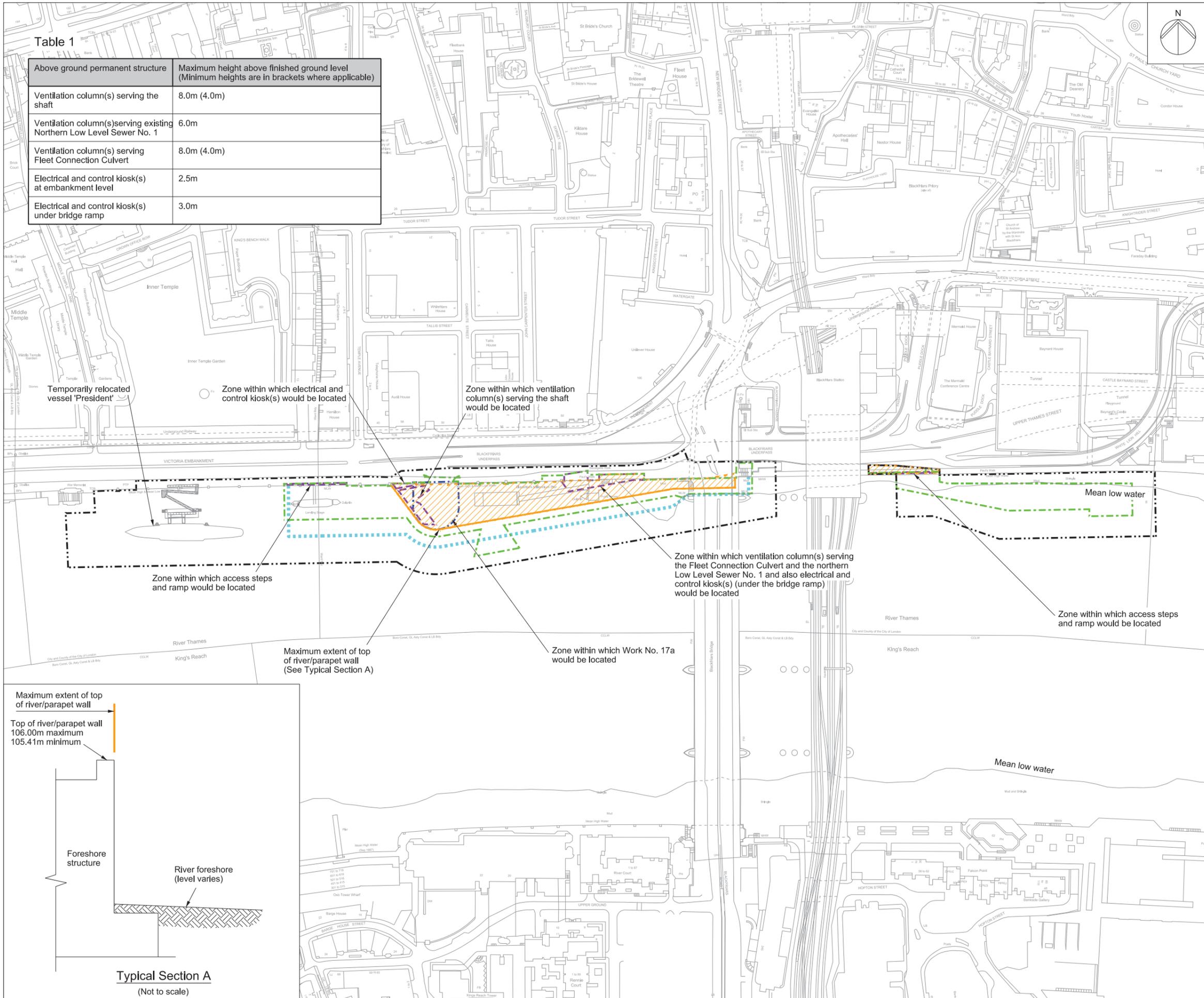


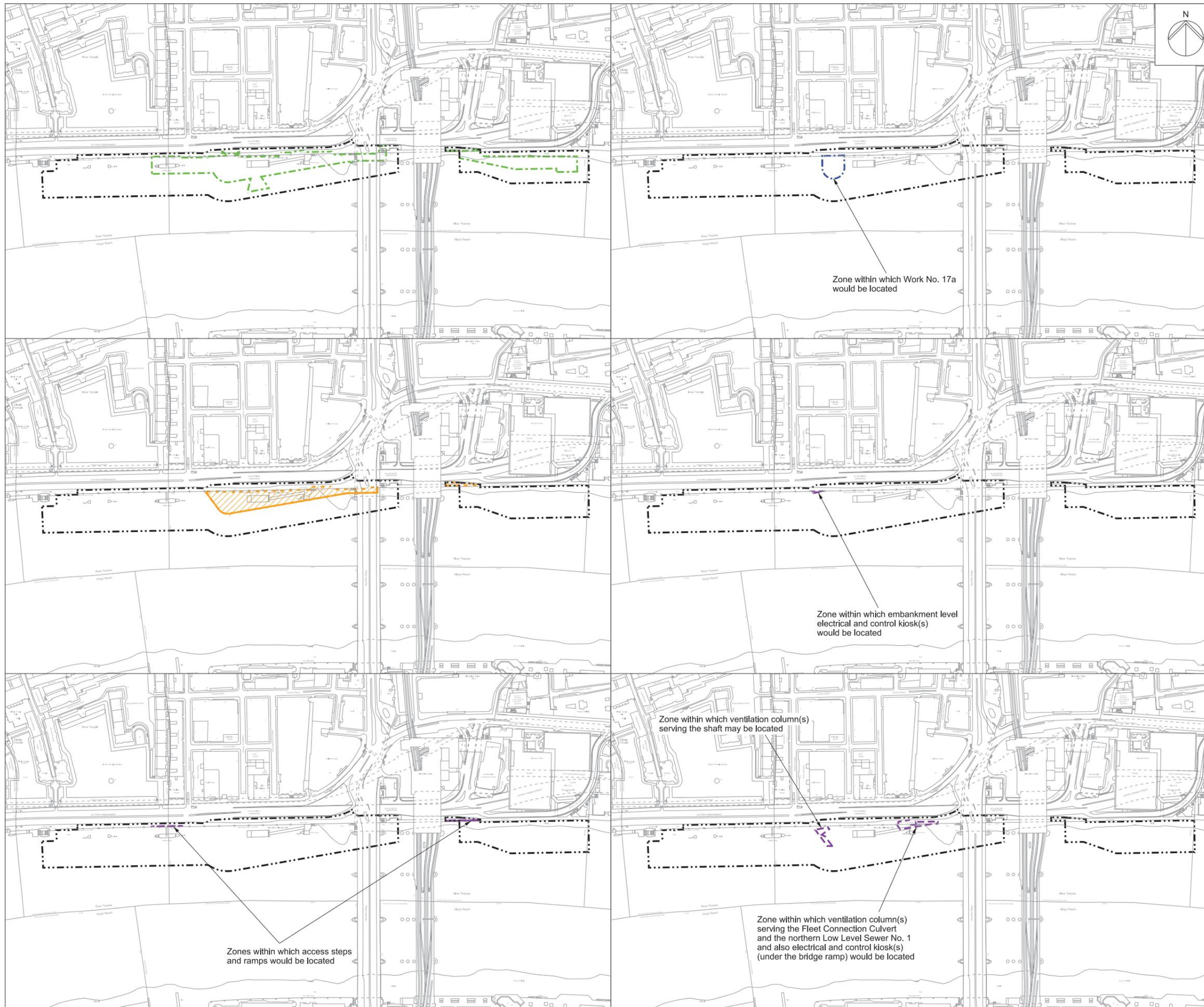
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**Location**  
**Blackfriars Bridge Foreshore**  
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**Document Information**  
**Application for Development Consent**  
 Site works parameter plan

Book of plans - section 19  
 DCO-PP-17X-BLAF-190010  
 January 2028





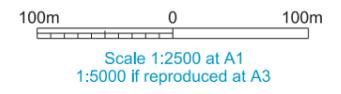
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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Zone within which all permanent site structures would be located
  - Zone within which the shaft would be located
  - Zone within which permanent above ground structures would be located
  - Zone within which required landscaping would be located
  - Maximum extent of top of river/parapet wall

- 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.



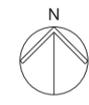
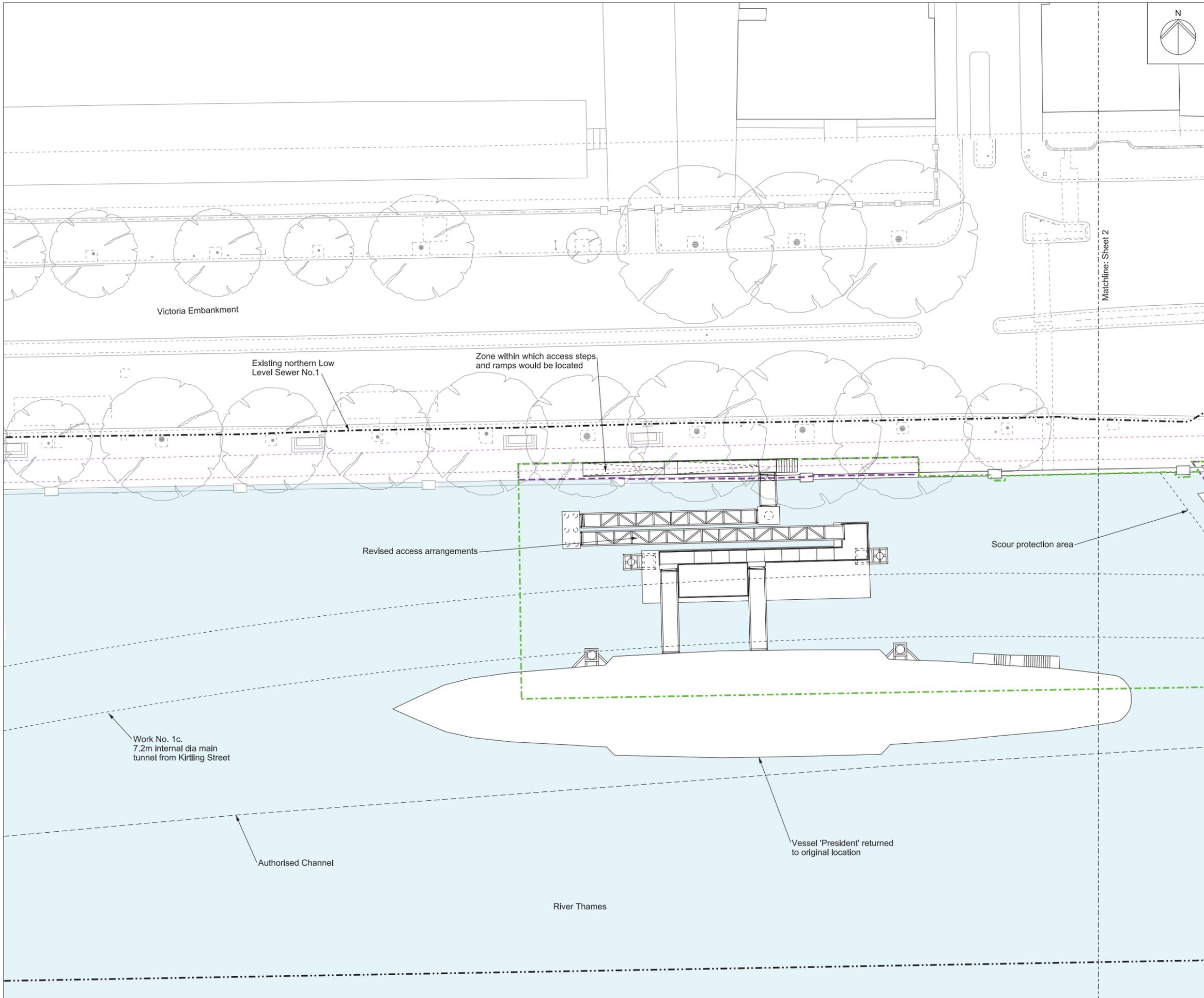
**FOR INFORMATION**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

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

Book of plans - section 19  
 DCO-PP-17X-BLAF-190011  
 January 2029





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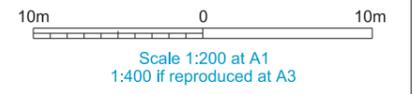


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Existing sewers
  - Zone within which all permanent site structures 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.

**Sheet Layout**

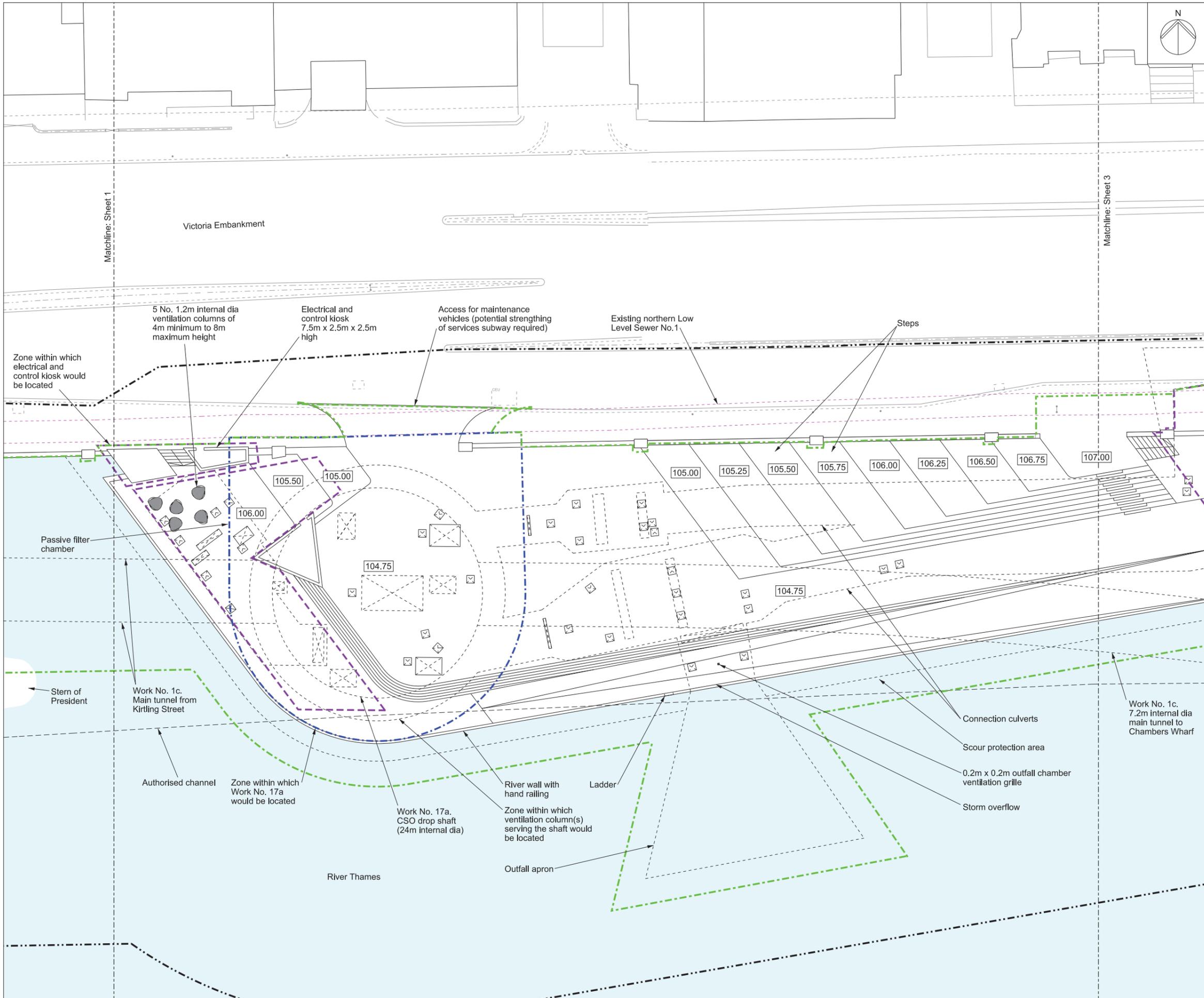


**ILLUSTRATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Permanent works layout  
Sheet 1 of 5  
Book of plans - section 19  
DCO-PP-17X-BLABF-190012  
January 2013





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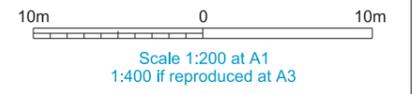


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Existing sewers
  - Zone within which all permanent site structures would be located
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**Sheet Layout**

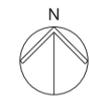
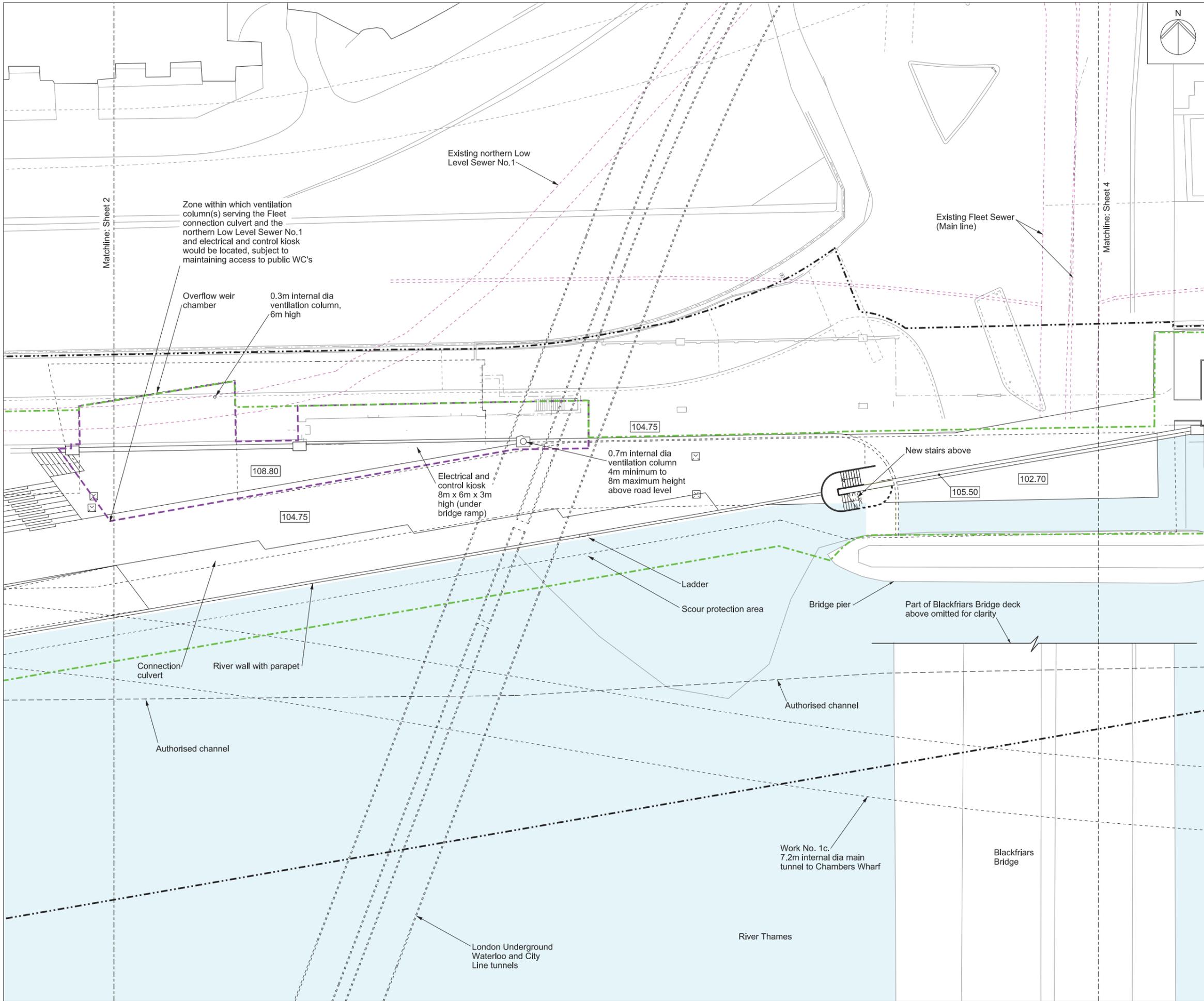


ILLUSTRATIVE

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Permanent works layout  
 Sheet 2 of 5  
 Book of plans - section 19  
 DCO-PP-17X-BLABF-190013  
 January 2020





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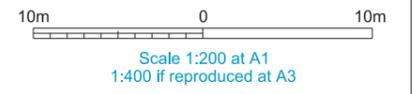
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Existing sewers
  - Zone within which all permanent site structures would be located
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**Sheet Layout**

Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5
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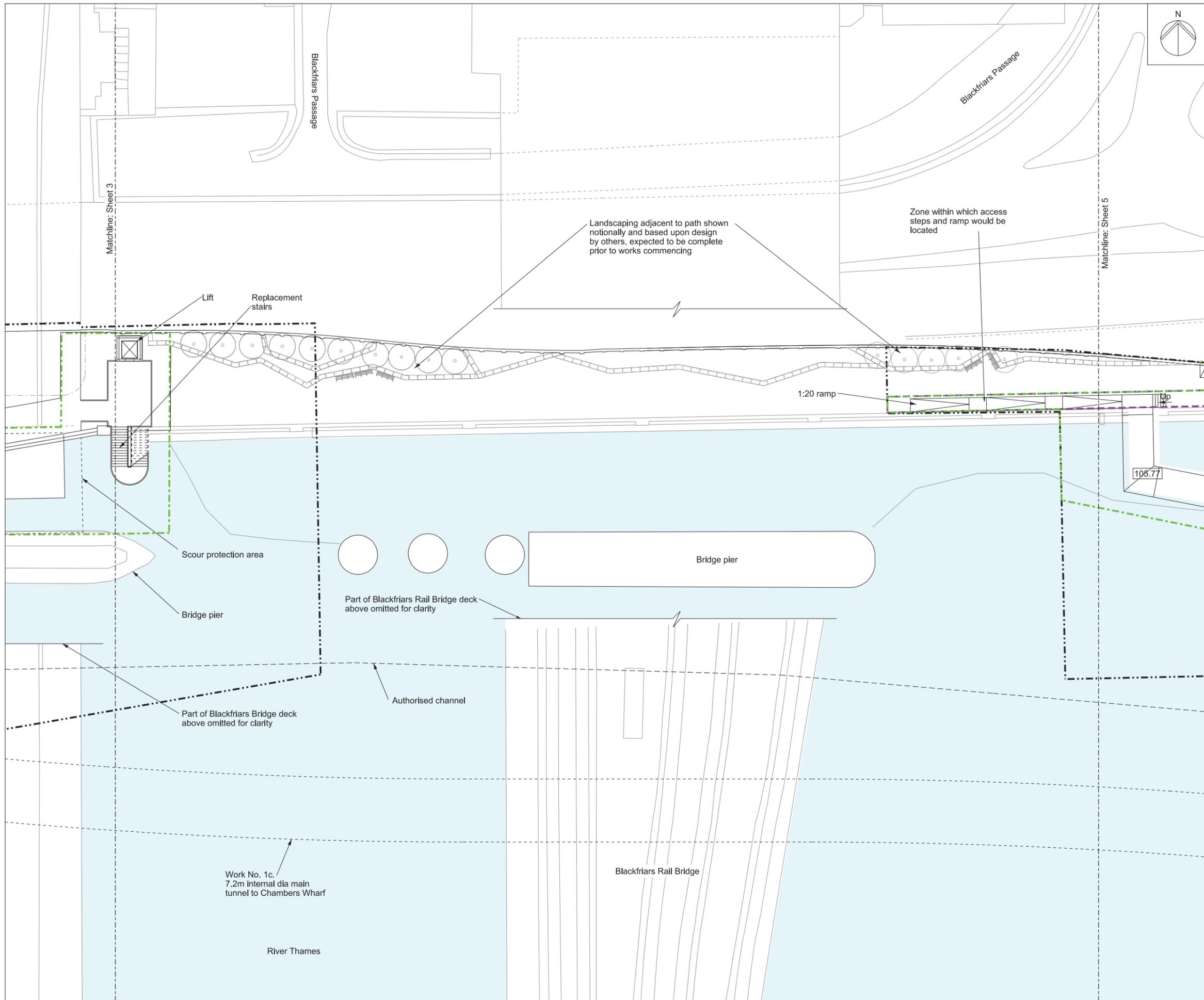


## ILLUSTRATIVE

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Permanent works layout  
 Sheet 3 of 5  
 Book of plans - section 19  
 DCO-PP-17X-BLABF-190014  
 January 2021





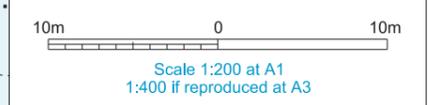
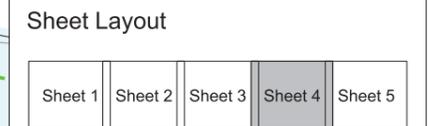
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

- 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.

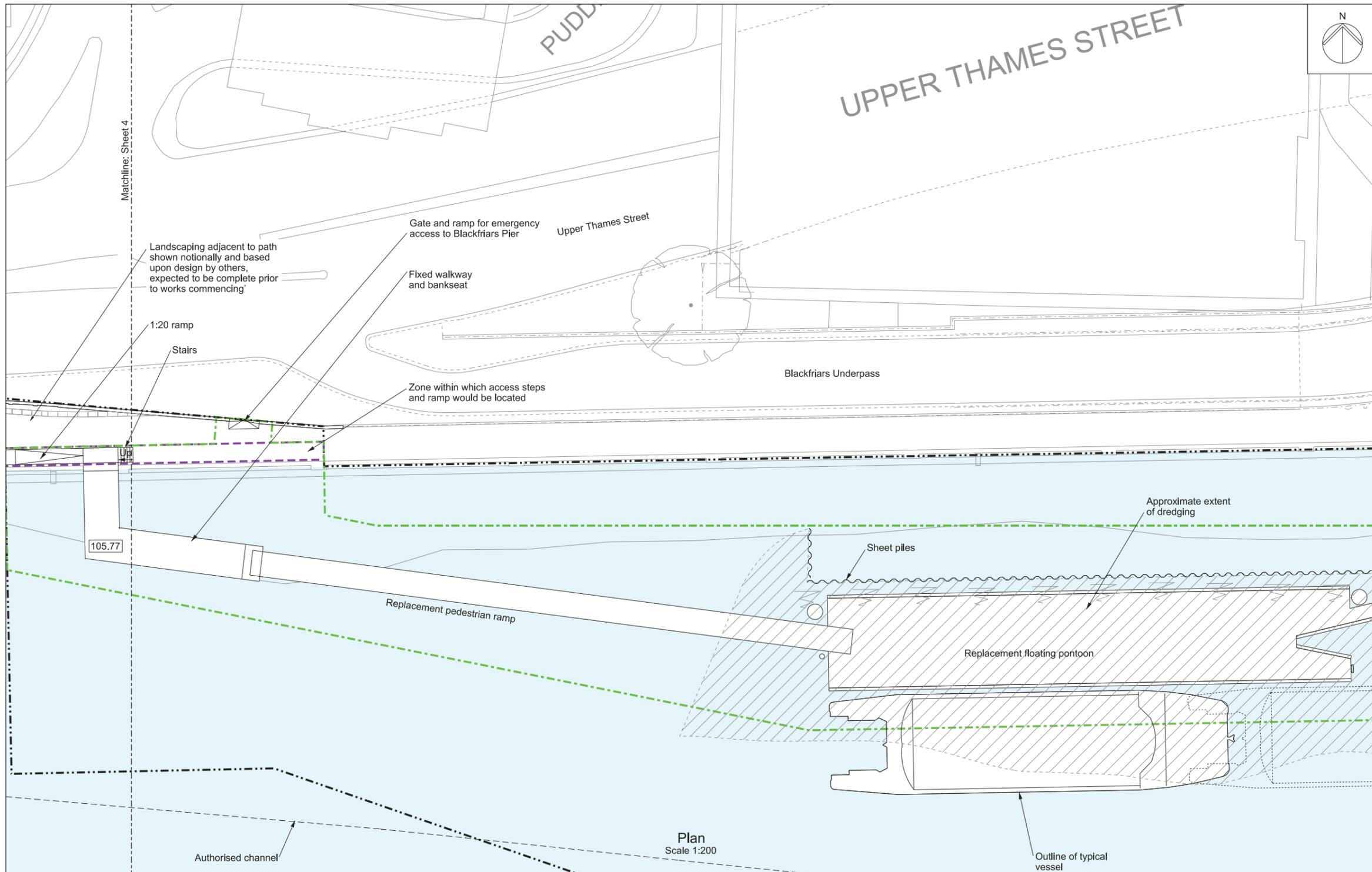


## ILLUSTRATIVE

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Permanent works layout  
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 January 2013





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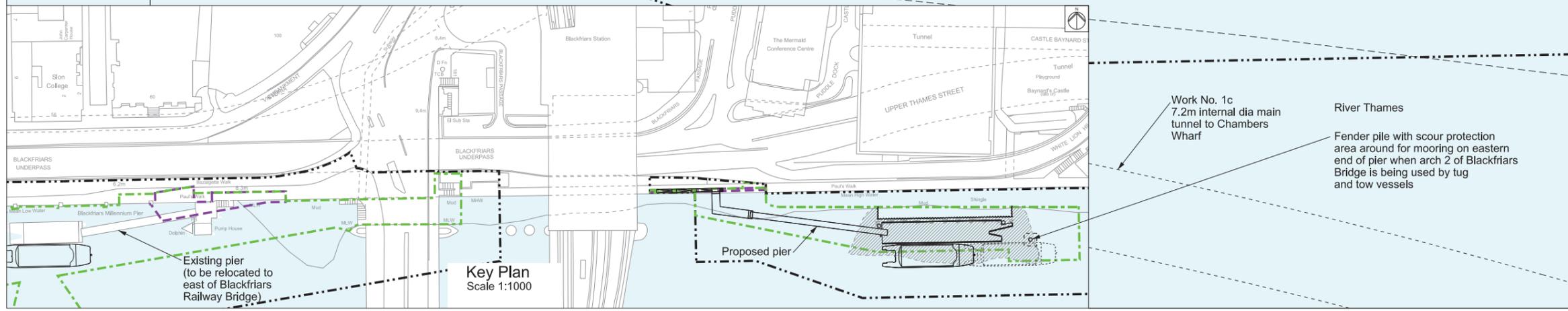
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:
- Limits of land to be acquired or used (LLAU)
  - Proposed level (shown in metres above tunnel datum)
  - Zone within which all permanent site structures would be located
  - Zone within which permanent above ground structures would be located
  - Approximate extent of dredging

- Notes:
1. All dimensions and levels are approximate.
  2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and topographical survey base, both of which have been used in the preparation of this drawing.
  3. This drawing shows permanent site structures only. Landscaping hard works and soft works are shown on the Proposed landscape plan and/or Proposed site features plan.
  4. Design to current river flood defence level 105.41m above tunnel datum (ATD).
  5. Landing stage proposed level as existing stage.

Sheet Layout

Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5
---------	---------	---------	---------	---------

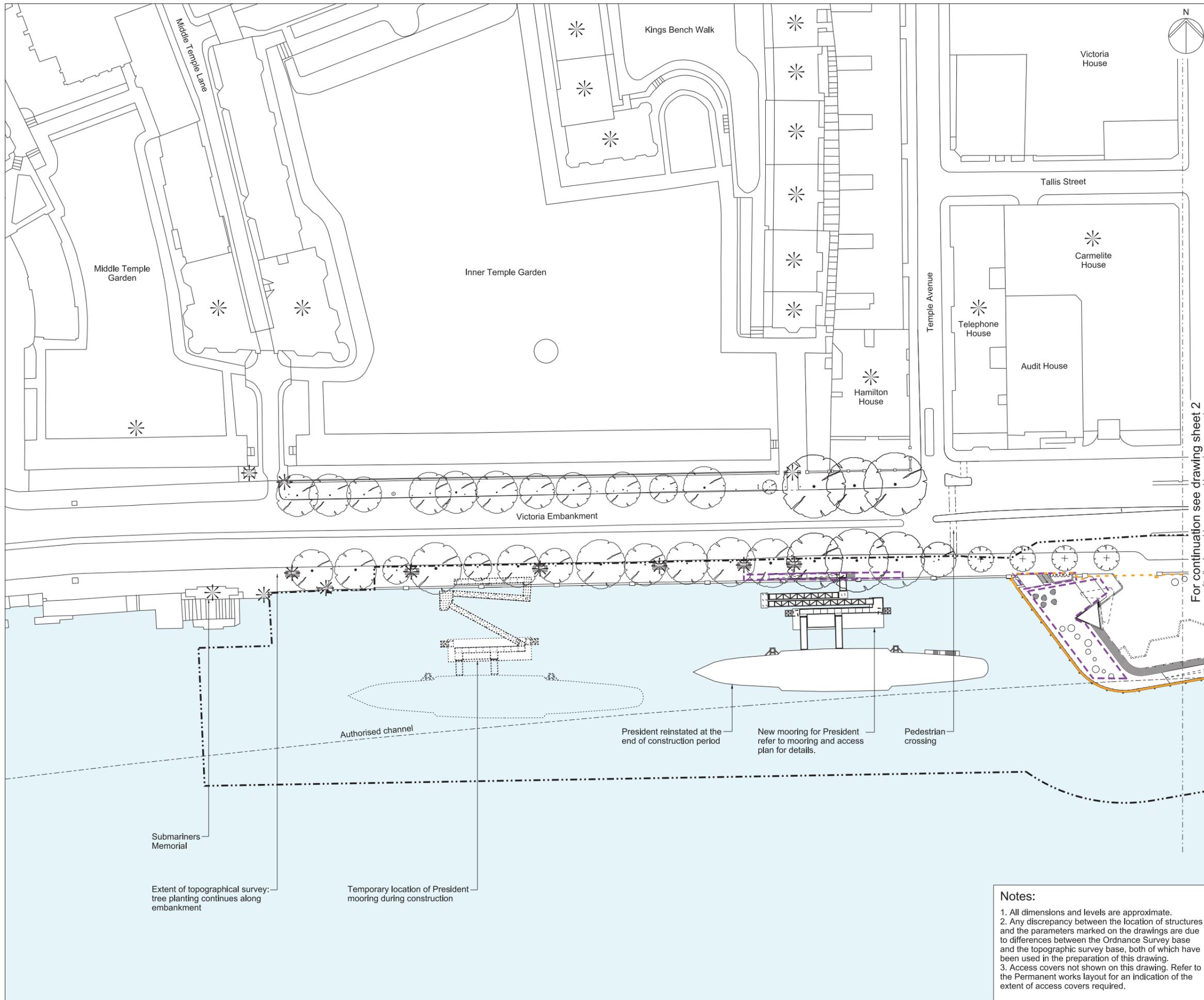


## ILLUSTRATIVE

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Permanent works layout  
 Sheet 5 of 5  
 Book of plans - section 19  
 DCO-PP-17X-BLAF-190016  
 January 2013



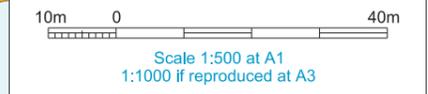
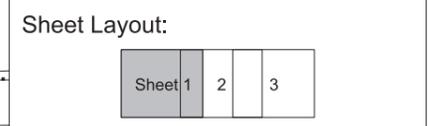


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- 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
  - \* Listed buildings/structures
  - ⊙ Existing trees within surveyed area (trunk sizes vary)
  - ⊕ Proposed trees (London Plane)



**ILLUSTRATIVE**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

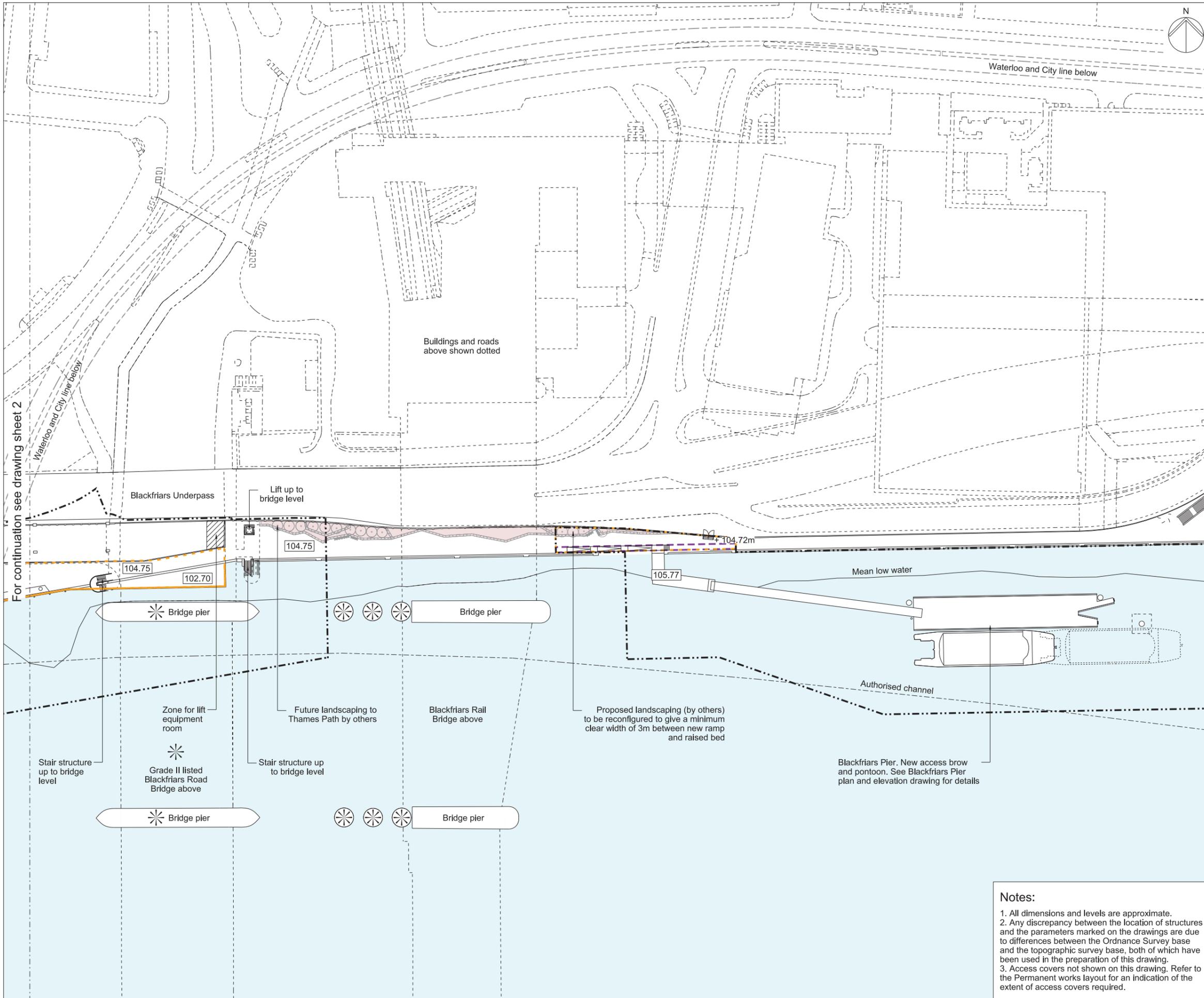
**Document Information**  
**Application for Development Consent**

Proposed site features plan  
 Sheet 1 of 3  
 Book of plans - section 19  
 DCO-PP-17X-BLAF-190017  
 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. Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.





For continuation see drawing sheet 2

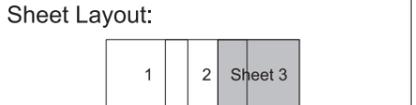


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- 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)
  - 104.40 Proposed levels (shown in metres above tunnel datum)
  - Consented development footprint (by others)
  - Listed buildings/structures



**ILLUSTRATIVE**

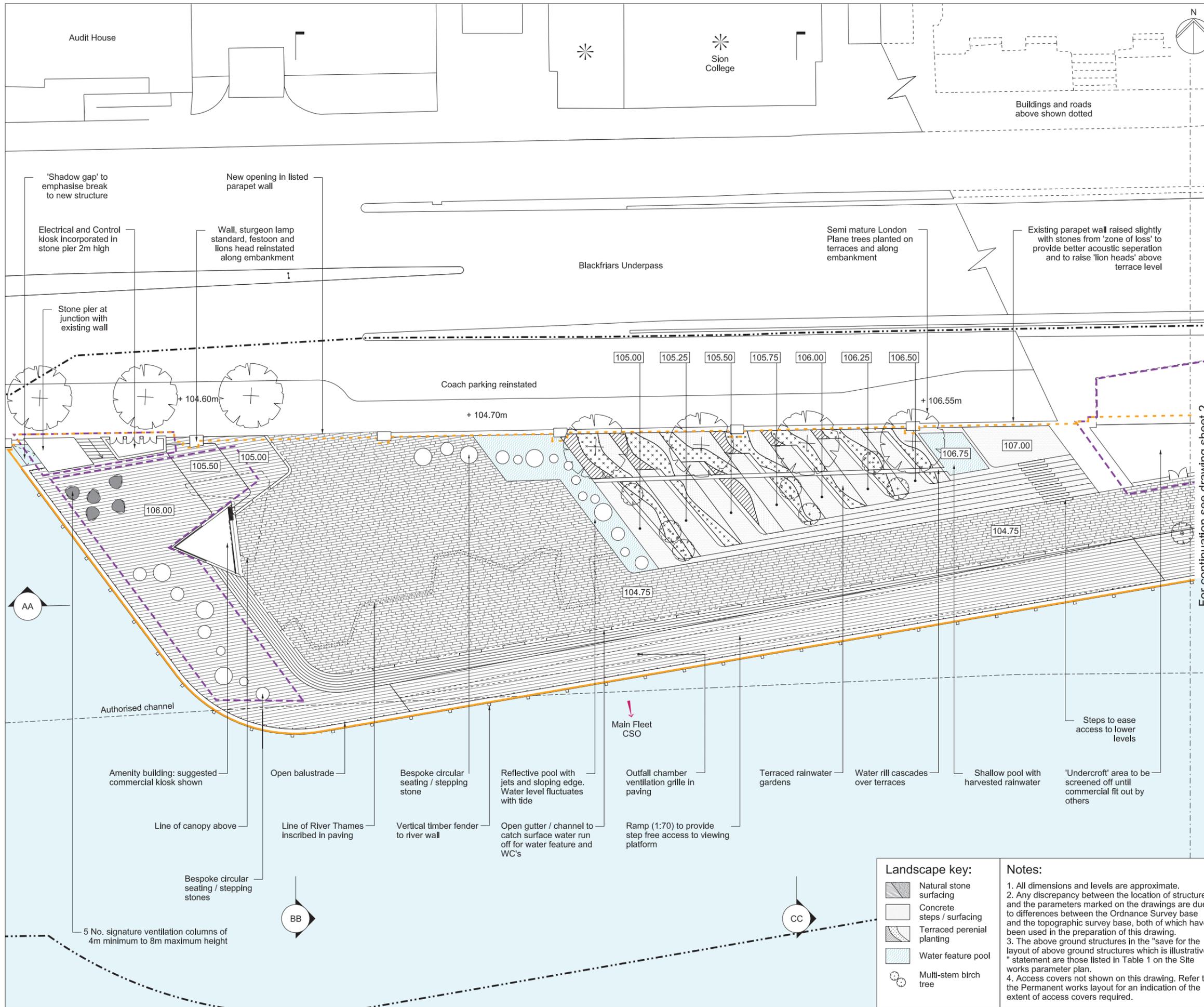
**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Proposed site features plan  
Sheet 3 of 3  
Book of plans - section 19  
DCO-PP-17X-BLAF-190019  
January 2013



**Notes:**

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- 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.
- Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.



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Keyplan:  
This drawing

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)
  - \* Listed buildings/structures
  - Approximate position of CSO outlet
  - ⊕ Proposed trees (London Plane)

**Sheet Layout:**

Sheet 1 | Sheet 2

For continuation see drawing sheet 2

10m 0 10m

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

**INDICATIVE**  
Save for layout of above ground structures which is illustrative

**Location**  
Blackfriars Bridge Foreshore  
City of London

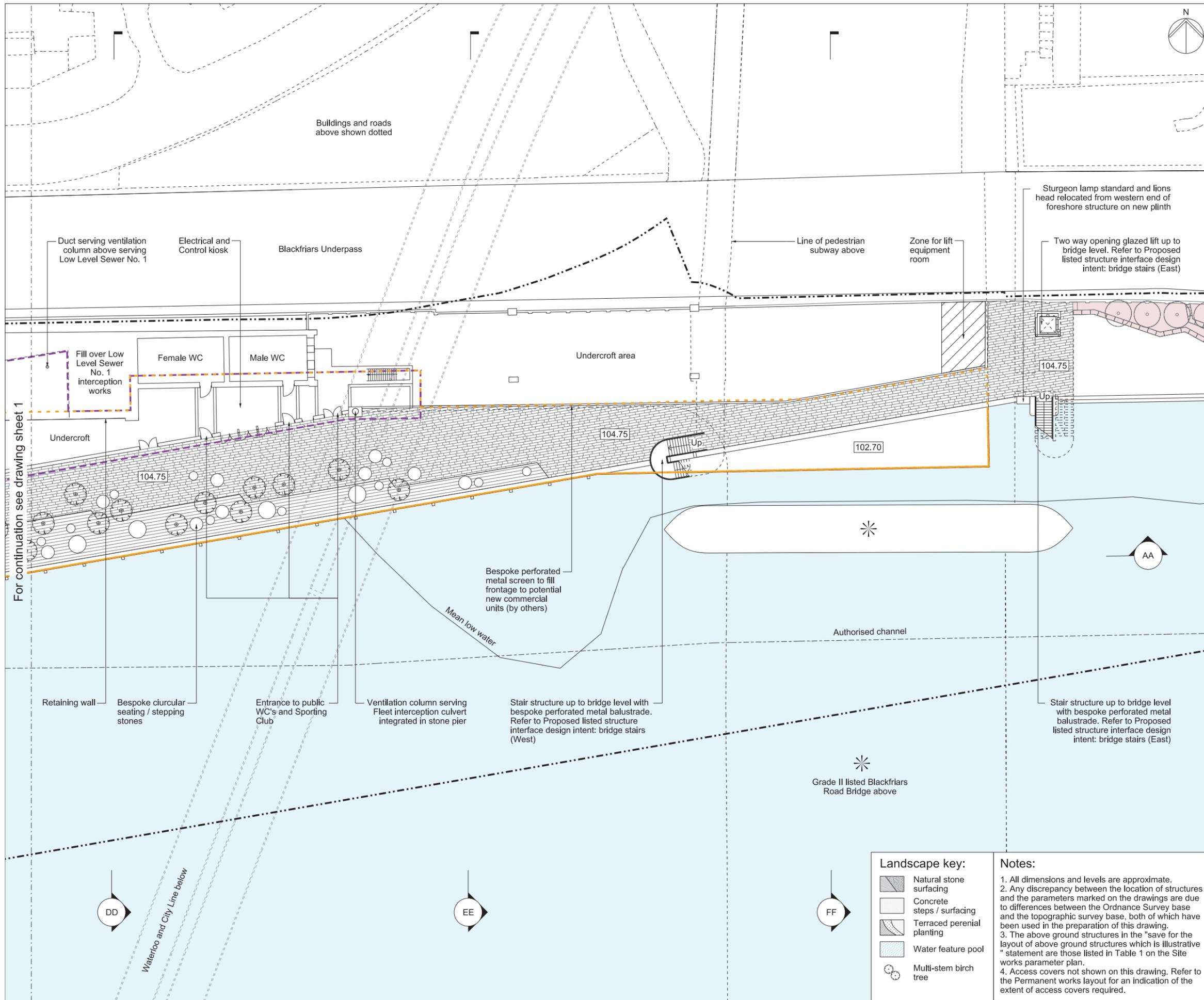
**Document Information**  
Application for Development Consent  
Proposed  
Landscape plan 1 of 2  
Book of plans - section 19  
DCO-PP-17X-BLAF-190020  
January 2013



- Landscape key:**
- Natural stone surfacing
  - Concrete steps / surfacing
  - Terraced perennial planting
  - Water feature pool
  - Multi-stem birch tree

**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 illustrative" statement are those listed in Table 1 on the Site works parameter plan.
- Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.

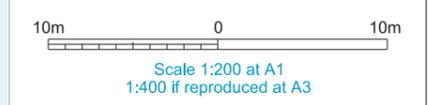
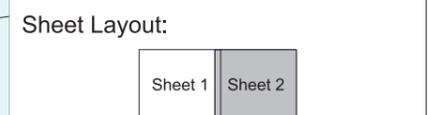


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- 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
  - Proposed levels (shown in metres above tunnel datum)
  - Consented development footprint (by others)
  - Proposed trees (London Plane)



**INDICATIVE**  
Save for layout of above ground structures which is illustrative

**Location**  
**Blackfriars Bridge Foreshore**  
City of London

**Document Information**  
**Application for Development Consent**

Proposed  
Landscape plan 2 of 2  
Book of plans - section 19  
DCO-PP-17X-BLAF-190021  
January 2013



- Landscape key:**
- Natural stone surfacing
  - Concrete steps / surfacing
  - Terraced perennial planting
  - Water feature pool
  - Multi-stem birch tree

**Notes:**

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4. Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.

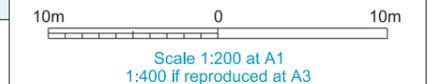
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Maximum temporary extent of loss of listed buildings / structures
  - Maximum permanent extent of loss of listed buildings / structures

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



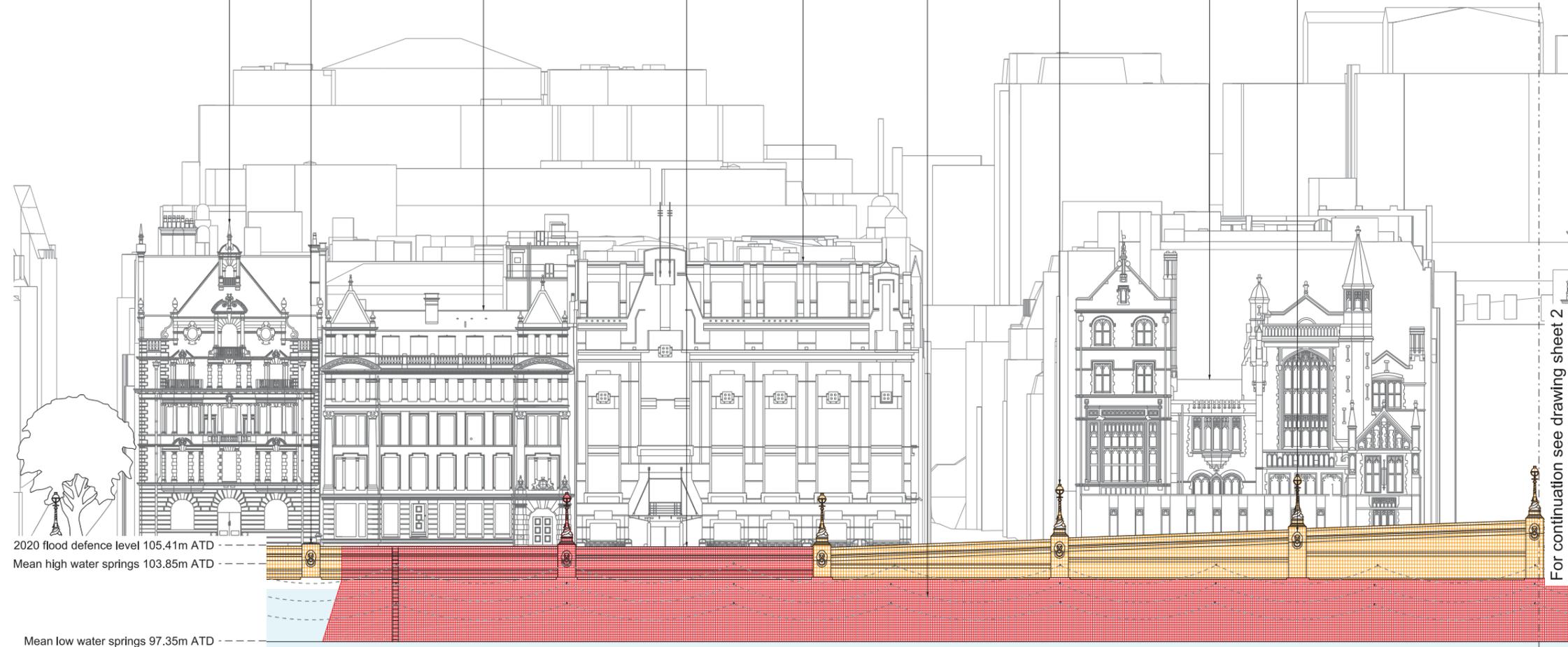
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**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Application for Development Consent**  
Extent of loss of listed river wall  
Sheet 1 of 2  
Book of plans - section 19  
DCO-PP-17X-BLABF-190022  
January 2013



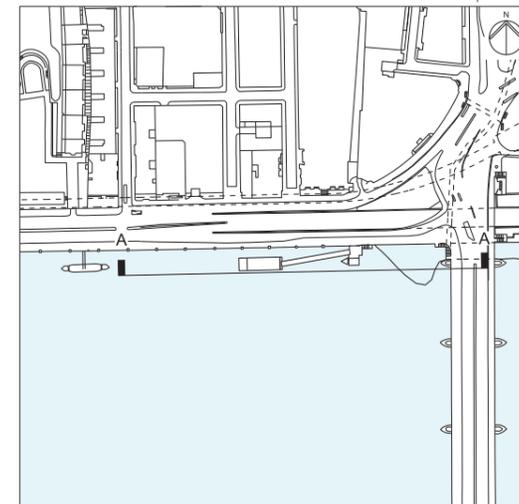
Telephone House    Empty plinth without sturgeon lamp post    Audit House    Embankment wall    Carmelite House    In-river safety chains    Listed sturgeon lamp post    Sion College    Listed lions head

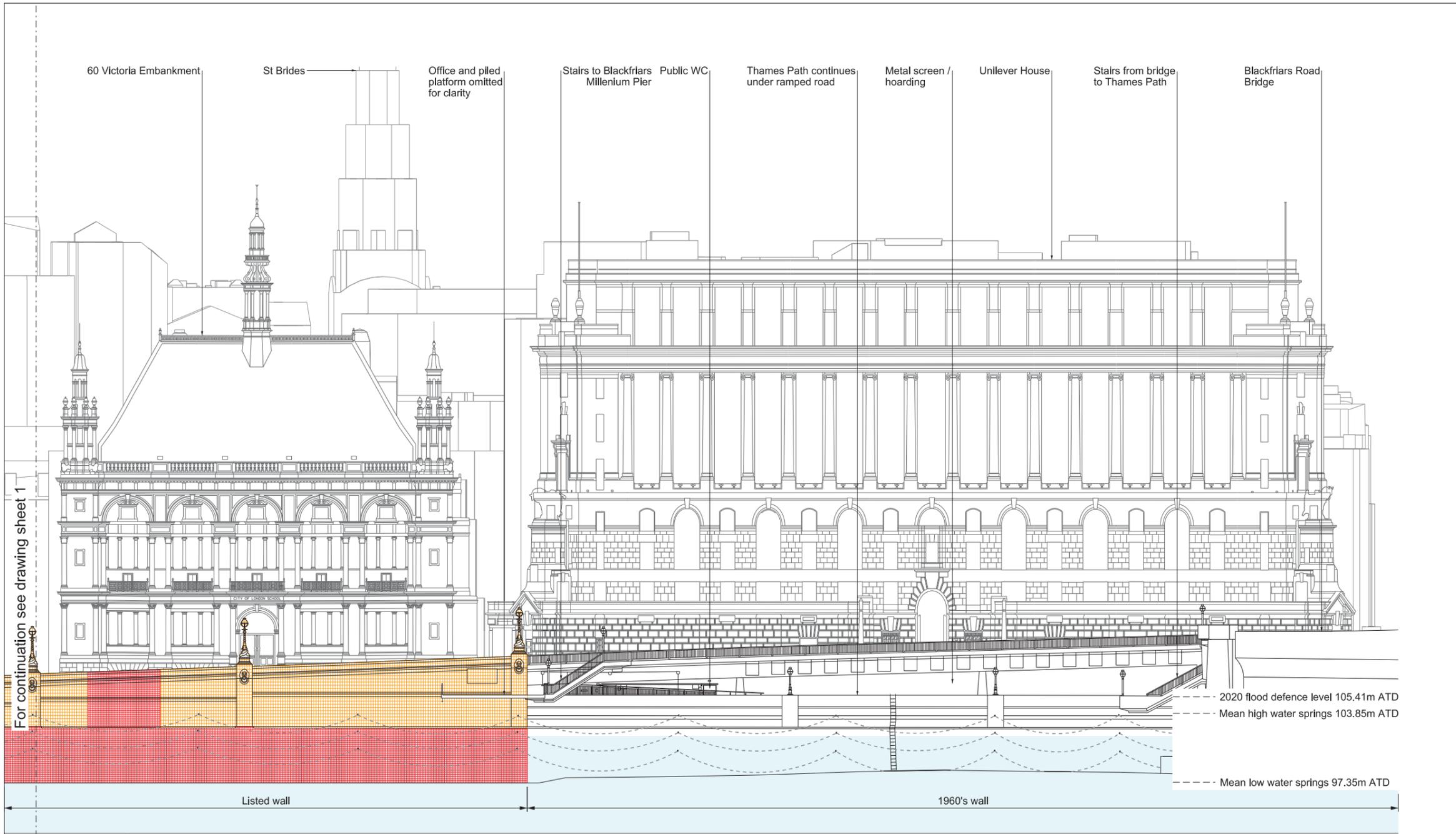


2020 flood defence level 105.41m ATD  
Mean high water springs 103.85m ATD  
Mean low water springs 97.35m ATD

As existing section AA

For continuation see drawing sheet 2





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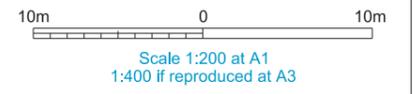
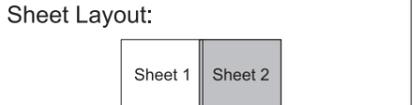


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

Notes:

1. All dimensions and levels are approximate.



FOR APPROVAL

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Extent of loss of listed river wall  
 Sheet 2 of 2  
 Book of plans - section 19  
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 January 2013



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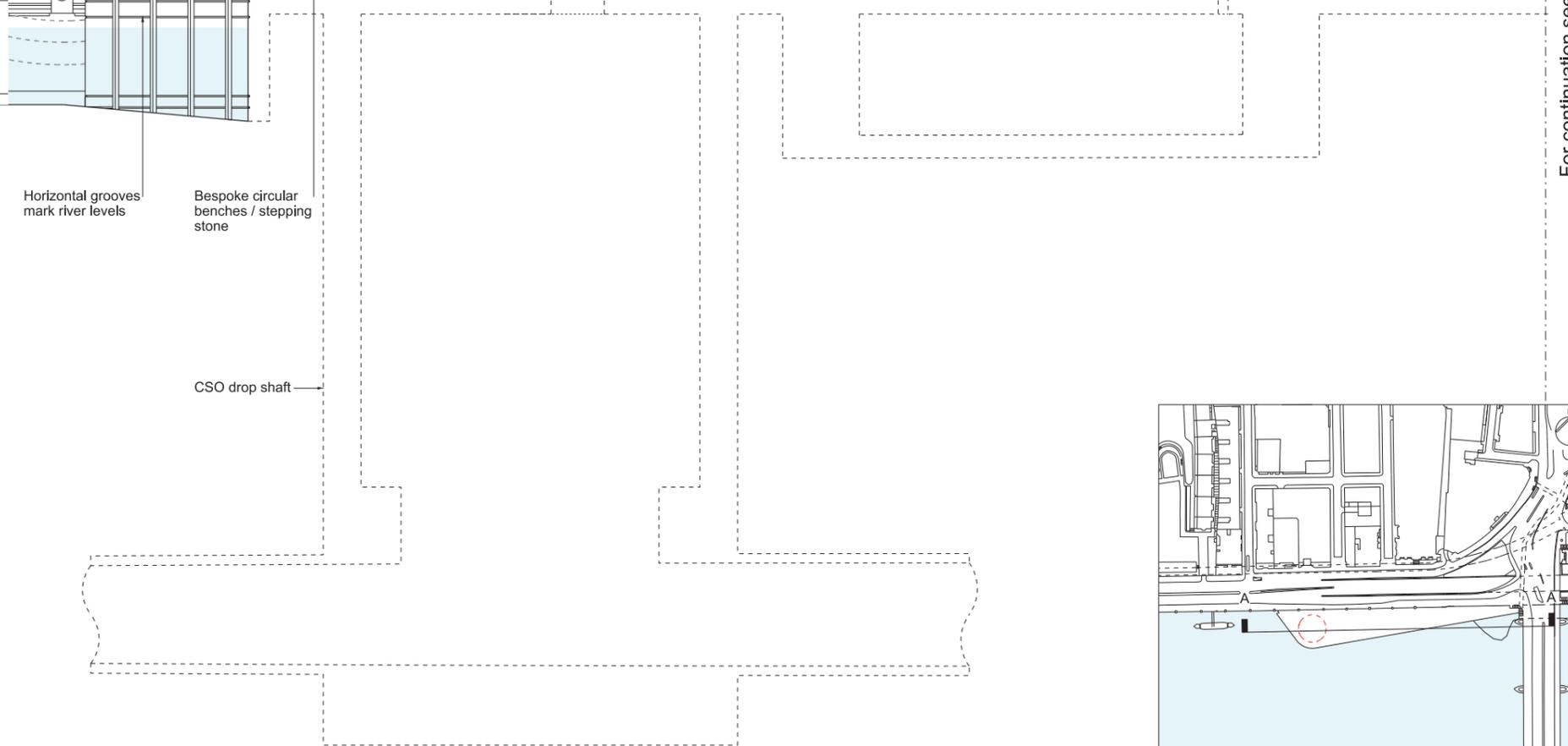
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Notes:**

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

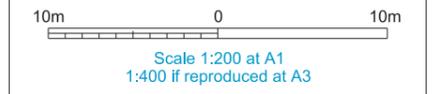


2020 flood defence level 105.41m ATD  
Mean high water springs 103.85m ATD  
Mean low water springs 97.35m ATD



For continuation see drawing sheet 2

**Sheet Layout:**

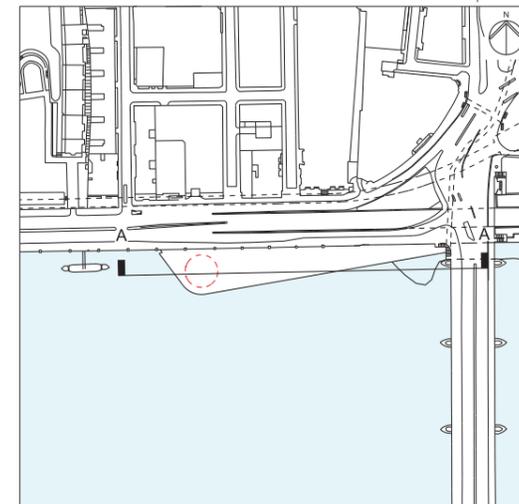


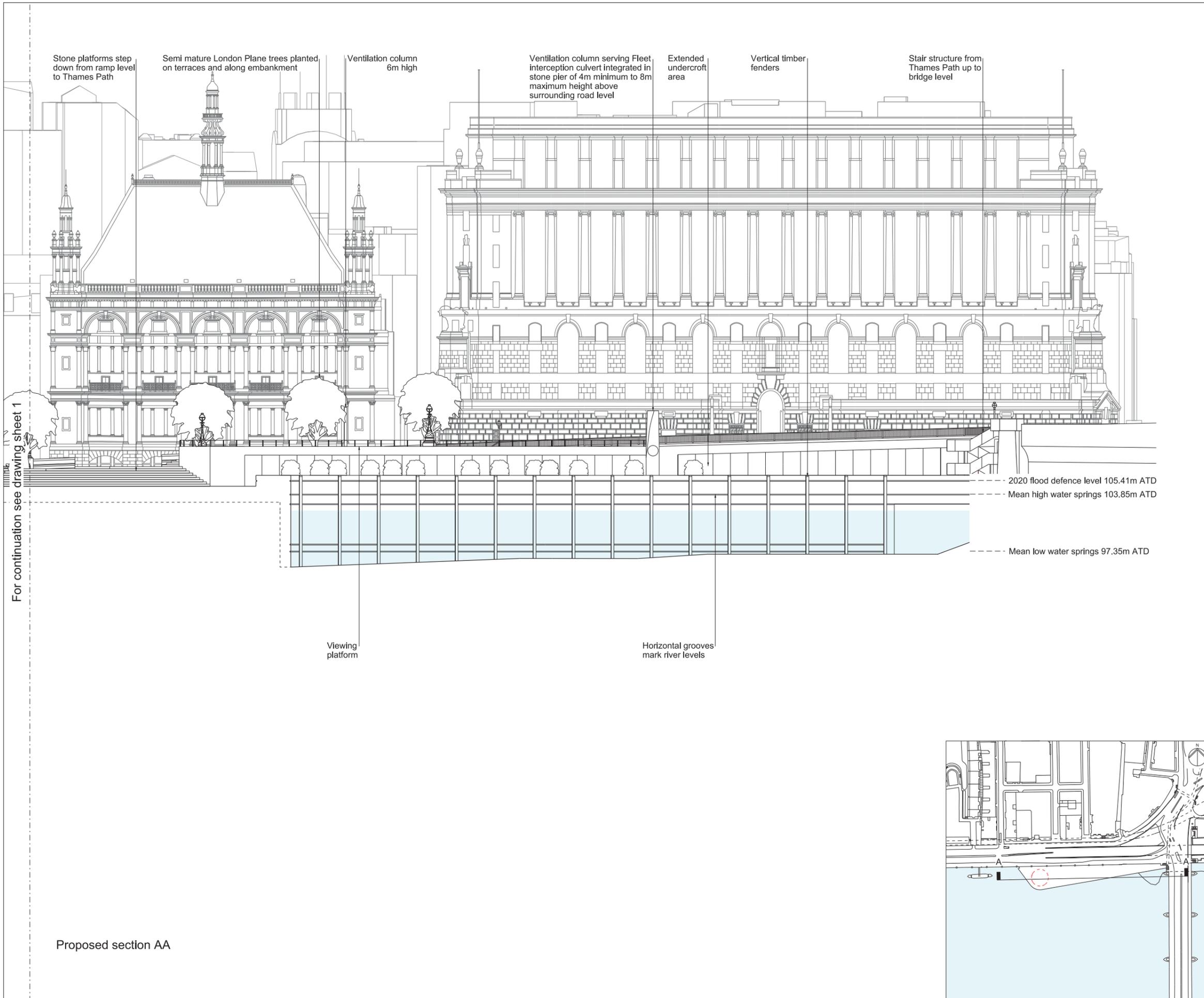
**ILLUSTRATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Proposed  
Section AA sheet 1 of 2  
Book of plans - section 19  
DCO-PP-17X-BLABF-190024  
January 2013

Proposed section AA





Stone platforms step down from ramp level to Thames Path

Semi mature London Plane trees planted on terraces and along embankment

Ventilation column 6m high

Ventilation column serving Fleet interception culvert integrated in stone pier of 4m minimum to 8m maximum height above surrounding road level

Extended undercroft area

Vertical timber fenders

Stair structure from Thames Path up to bridge level

--- 2020 flood defence level 105.41m ATD

--- Mean high water springs 103.85m ATD

--- Mean low water springs 97.35m ATD

Viewing platform

Horizontal grooves mark river levels

For continuation see drawing sheet 1

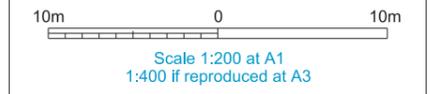
Proposed section AA

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- 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.

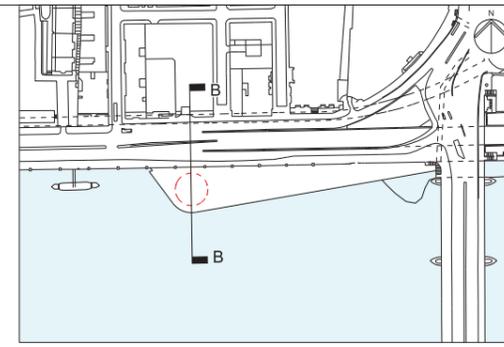


**ILLUSTRATIVE**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Proposed  
 Section AA sheet 2 of 2  
 Book of plans - section 19  
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 January 2013



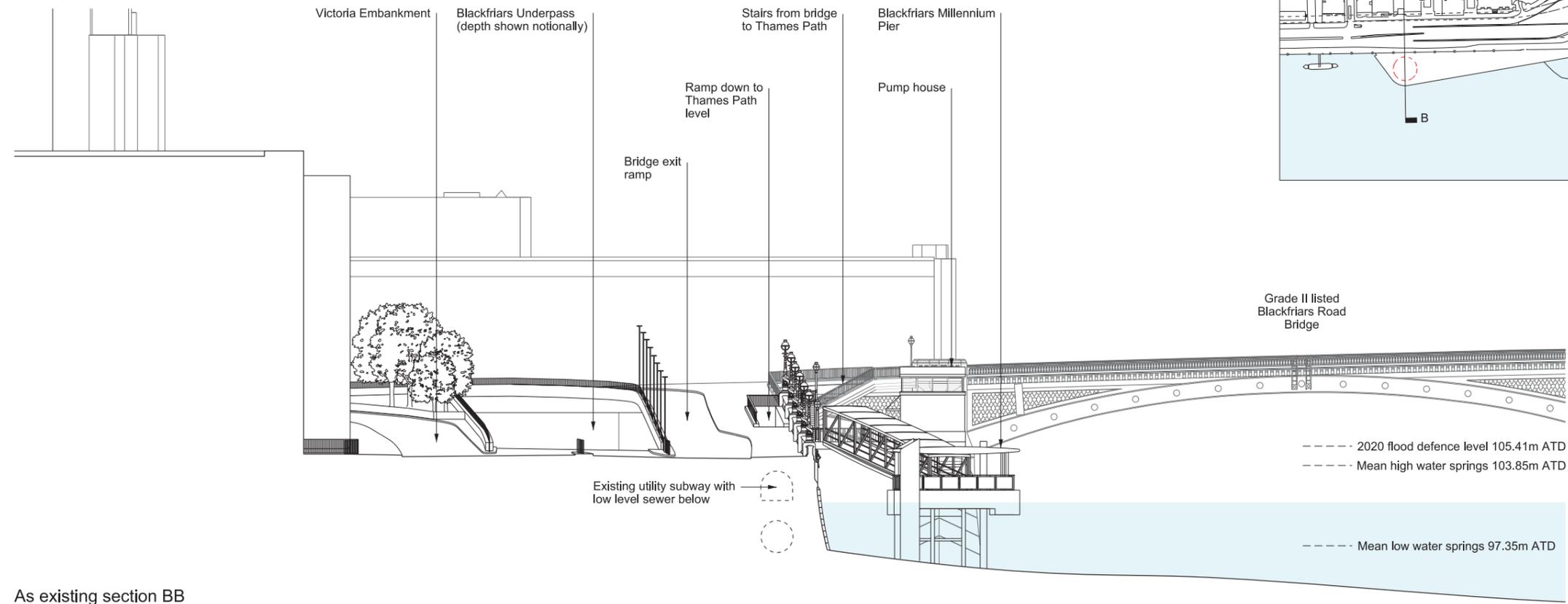


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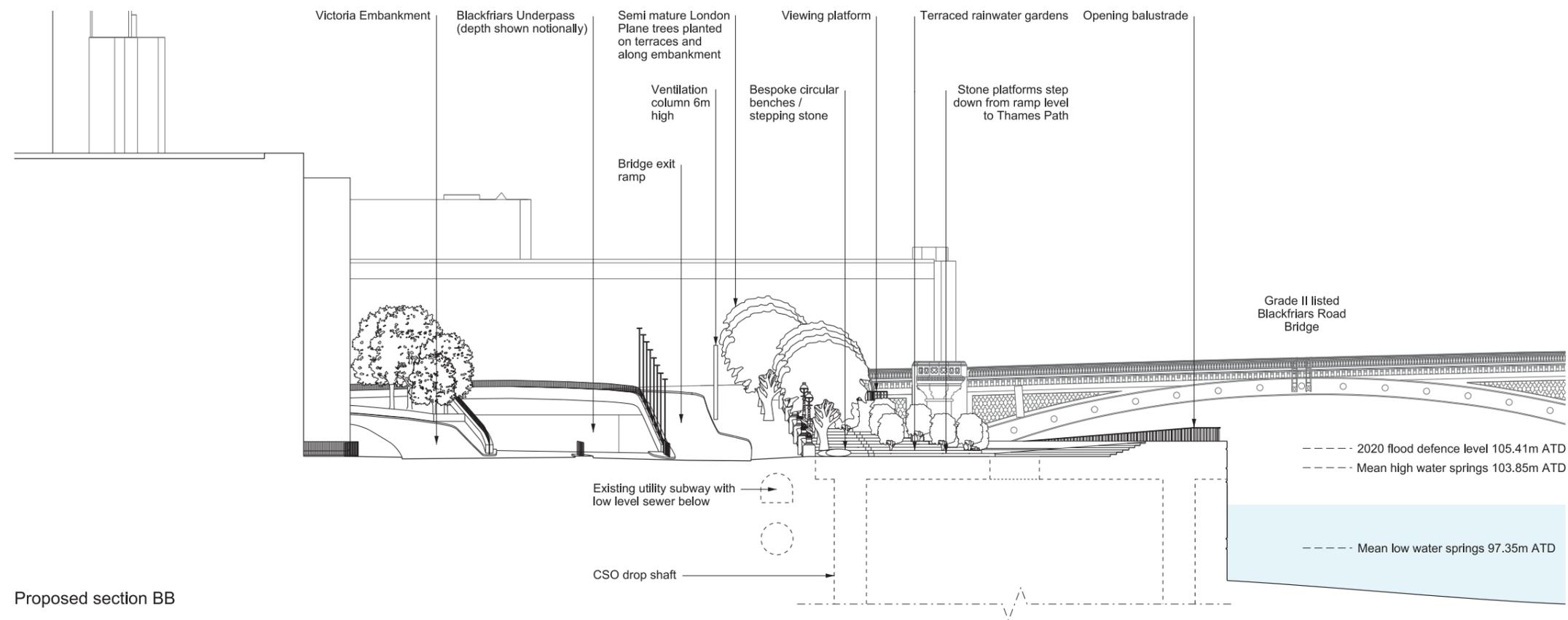


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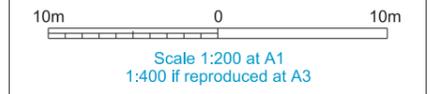
- Notes:**
1. All dimensions and levels are approximate.
  2. The purpose of this section is to show the scale of the below ground infrastructure to be provided.



As existing section BB



Proposed section BB

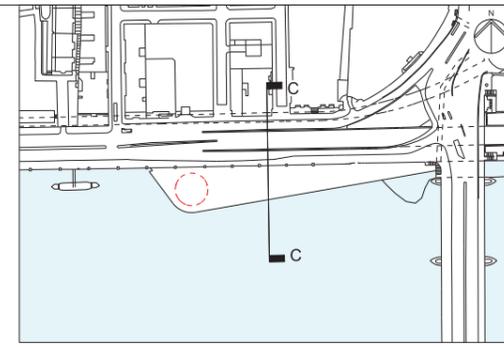


**ILLUSTRATIVE**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 As existing and proposed  
 Section BB  
 Book of plans - section 19  
 DCO-PP-17X-BLAF-190026  
 January 2013



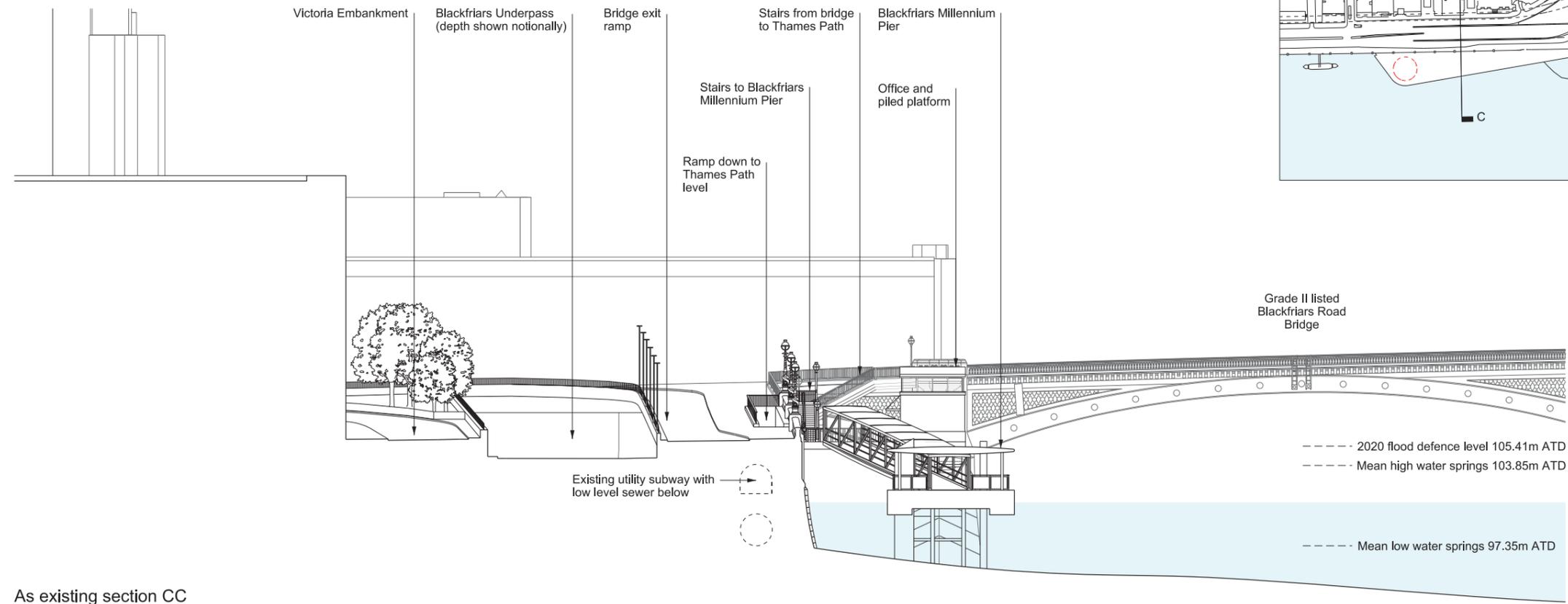


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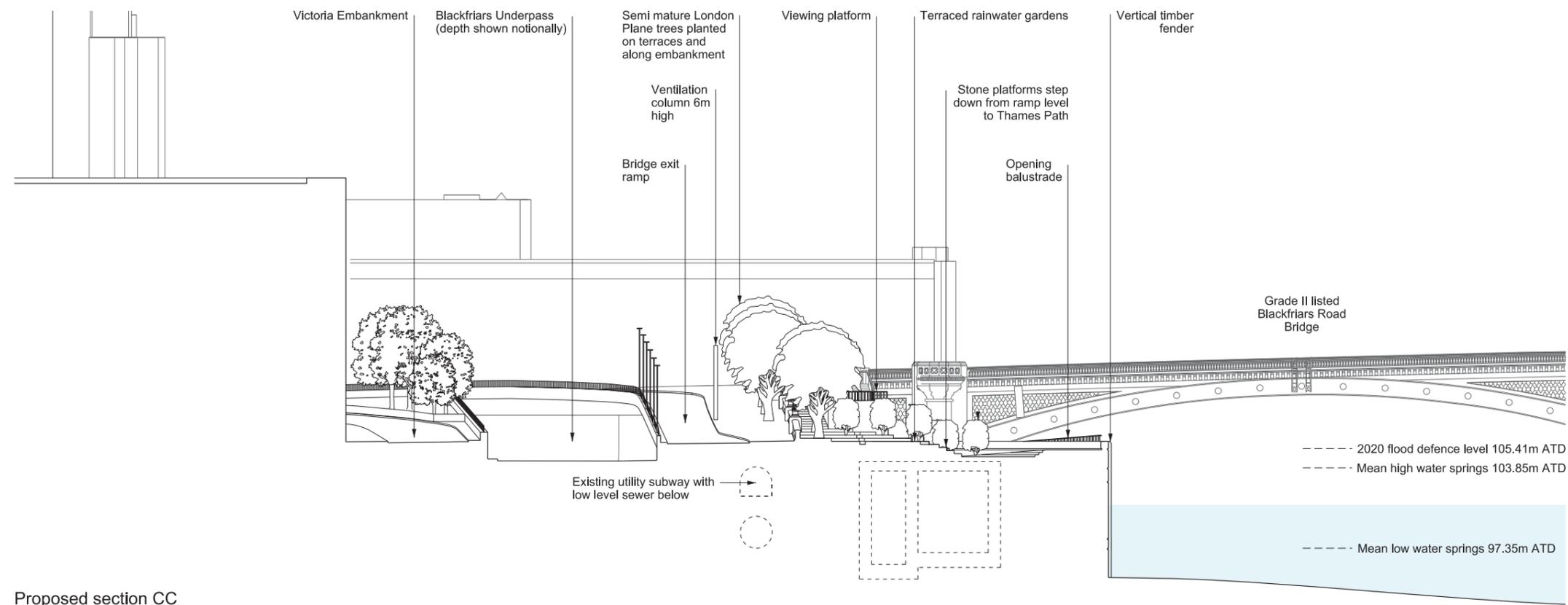


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

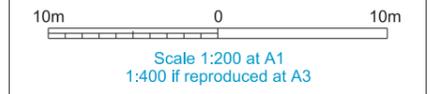
- Notes:**
1. All dimensions and levels are approximate.
  2. The purpose of this section is to show the scale of the below ground infrastructure to be provided.



As existing section CC



Proposed section CC

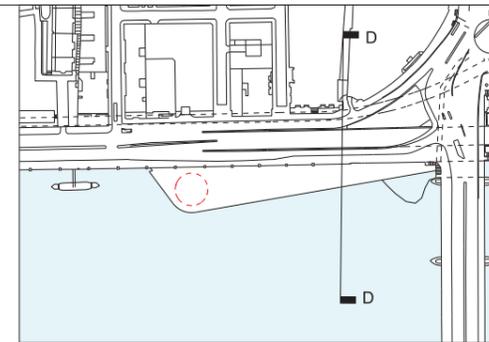


**ILLUSTRATIVE**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 As existing and proposed  
 Section CC  
 Book of plans - section 19  
 DCO-PP-17X-BLAF-190027  
 January 2013



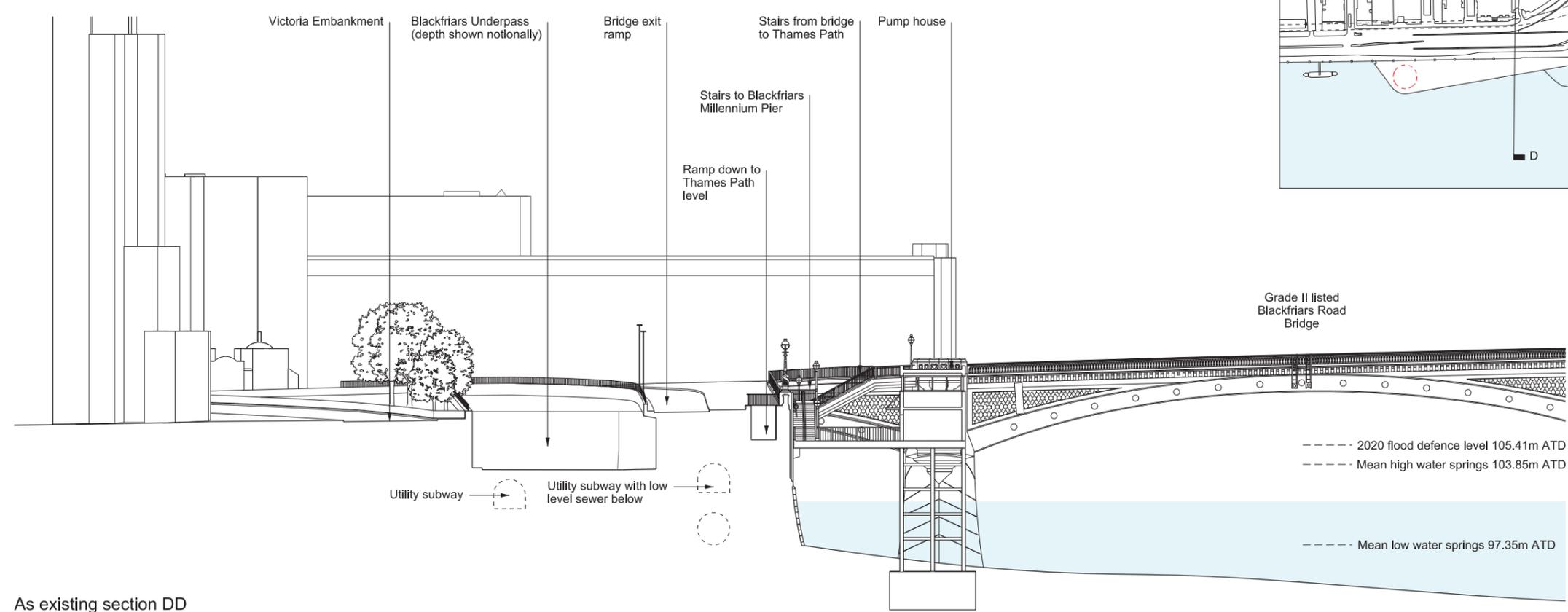


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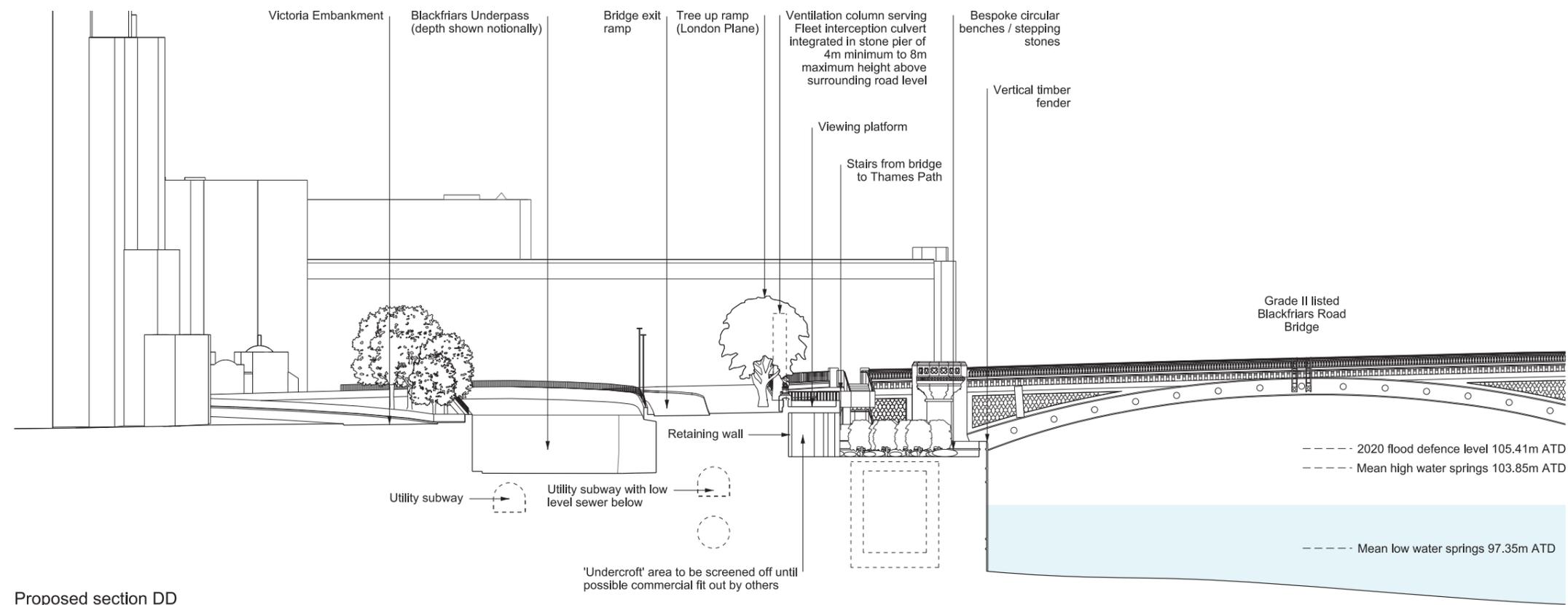


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

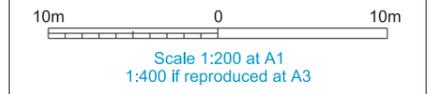
- Notes:**
1. All dimensions and levels are approximate.
  2. The purpose of this section is to show the scale of the below ground infrastructure to be provided.



As existing section DD



Proposed section DD

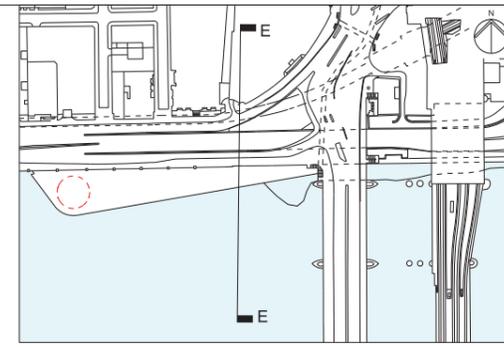


**ILLUSTRATIVE**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 As existing and proposed  
 Section DD  
 Book of plans - section 19  
 DCO-PP-17X-BLAF-190028  
 January 2013



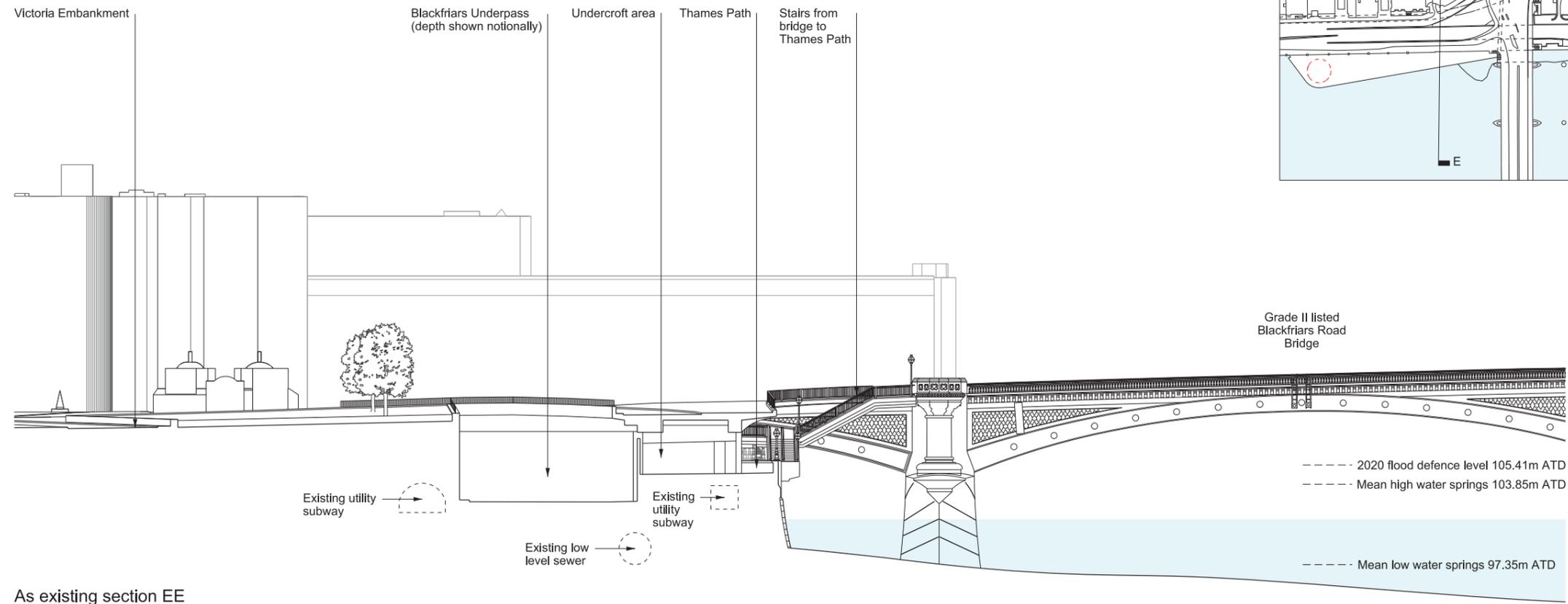


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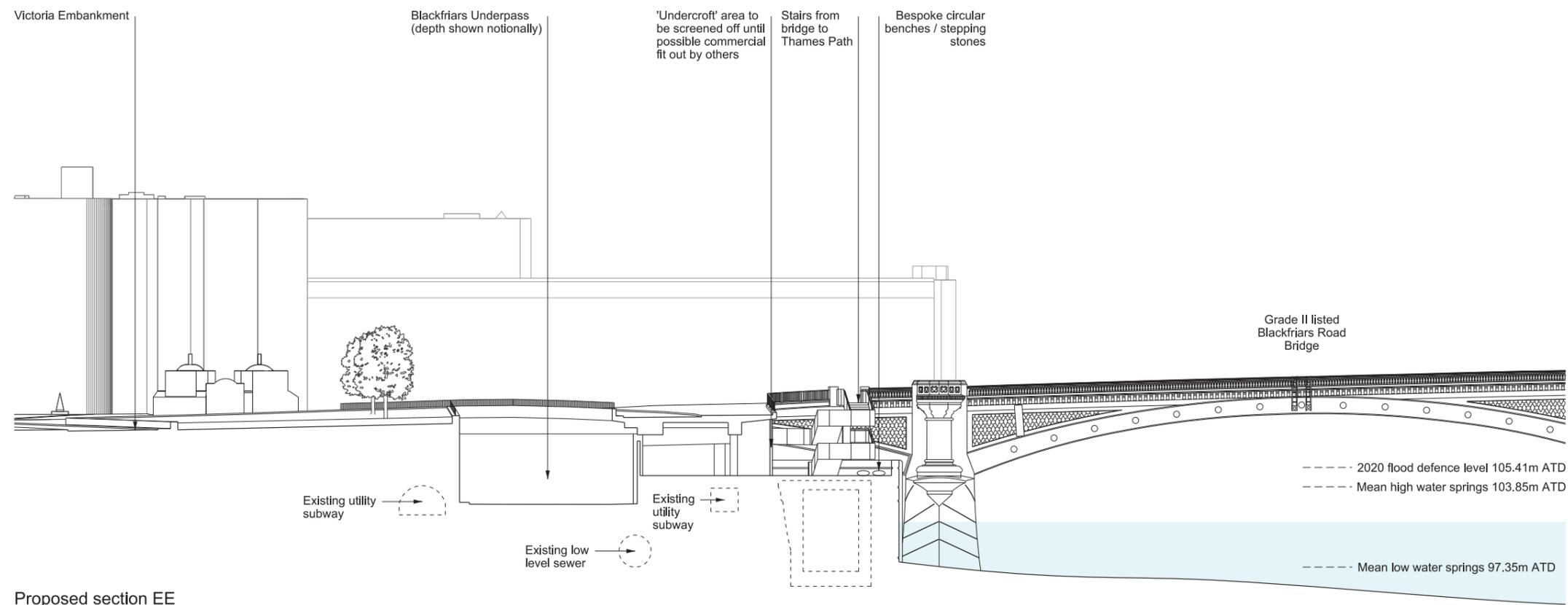


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

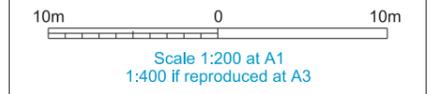
- Notes:**
1. All dimensions and levels are approximate.
  2. The purpose of this section is to show the scale of the below ground infrastructure to be provided.



As existing section EE



Proposed section EE

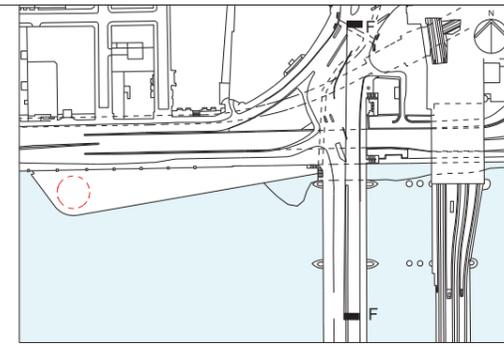


**ILLUSTRATIVE**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 As existing and proposed  
 Section EE  
 Book of plans - section 19  
 DCO-PP-17X-BLABF-190029  
 January 2013

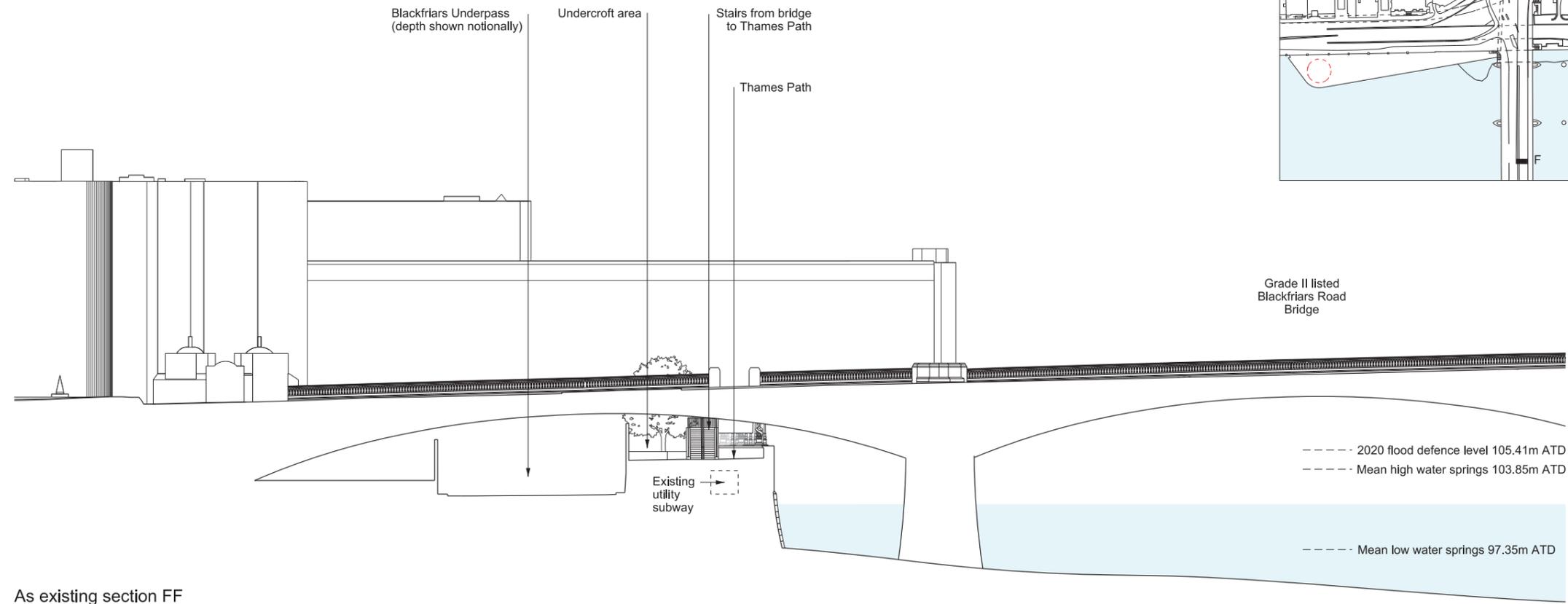




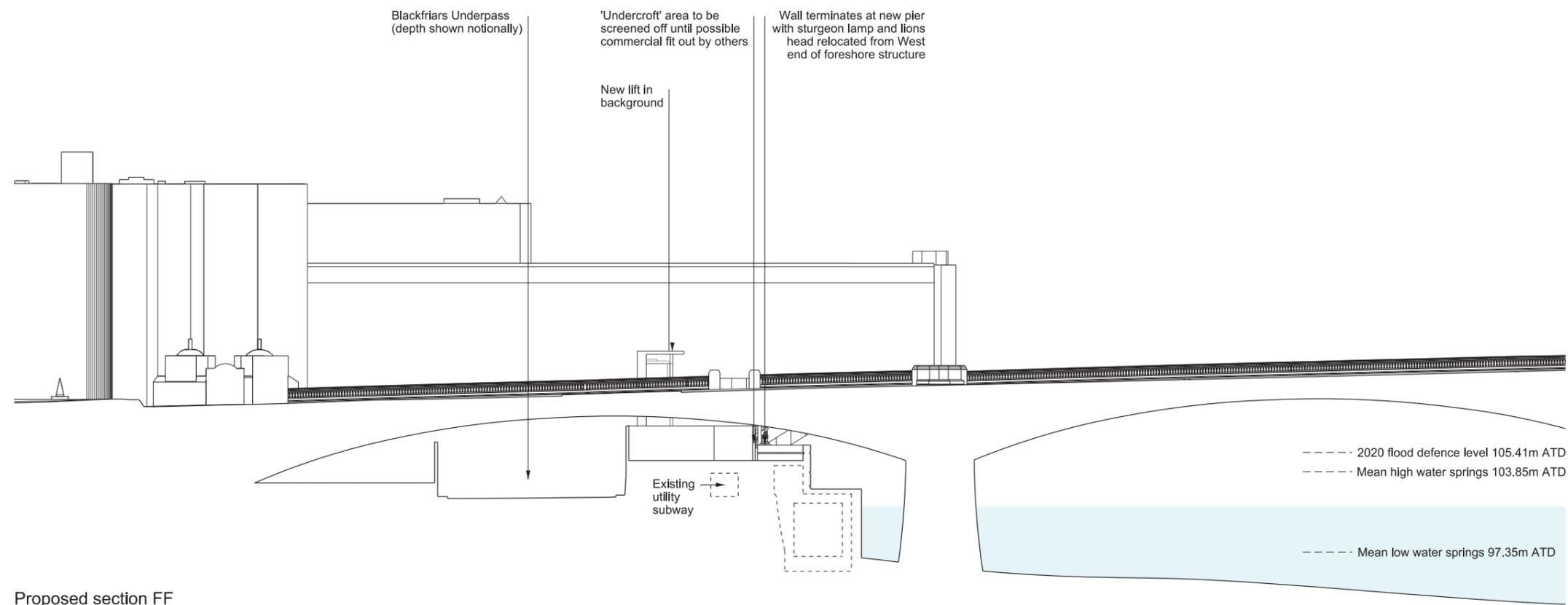
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

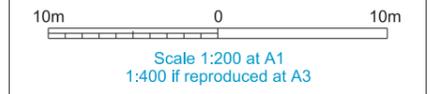


As existing section FF



Proposed section FF

**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.



**ILLUSTRATIVE**

**Location**  
 Blackfriars Bridge Foreshore  
 City of London

**Document Information**  
 Application for Development Consent  
 As existing and proposed  
 Section FF  
 Book of plans - section 19  
 DCO-PP-17X-BLABF-190030  
 January 2013



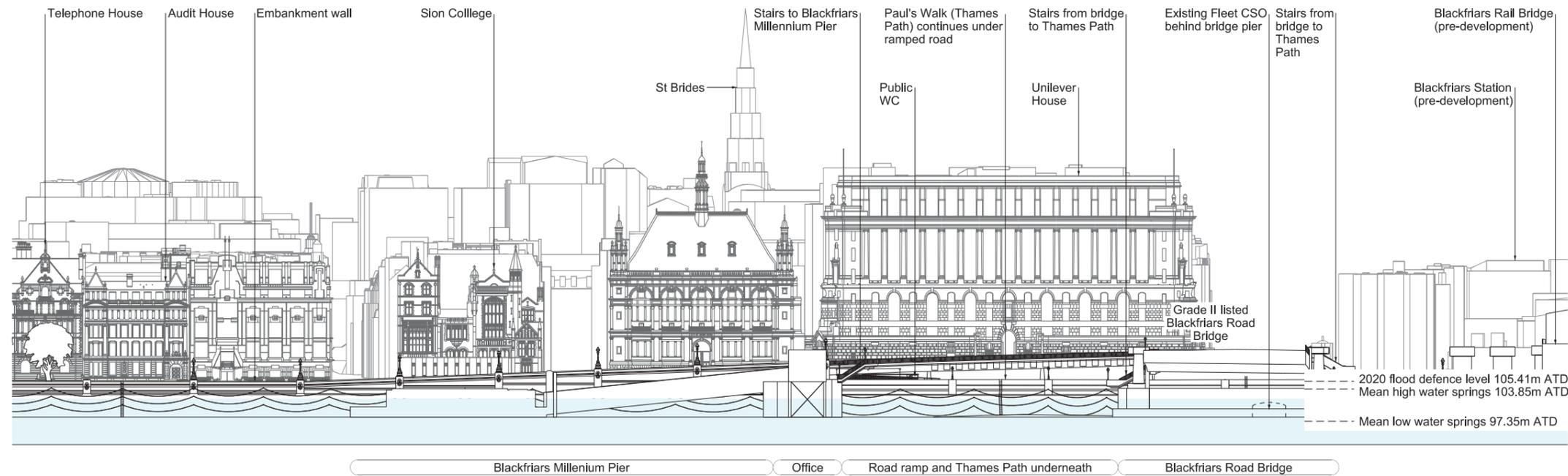
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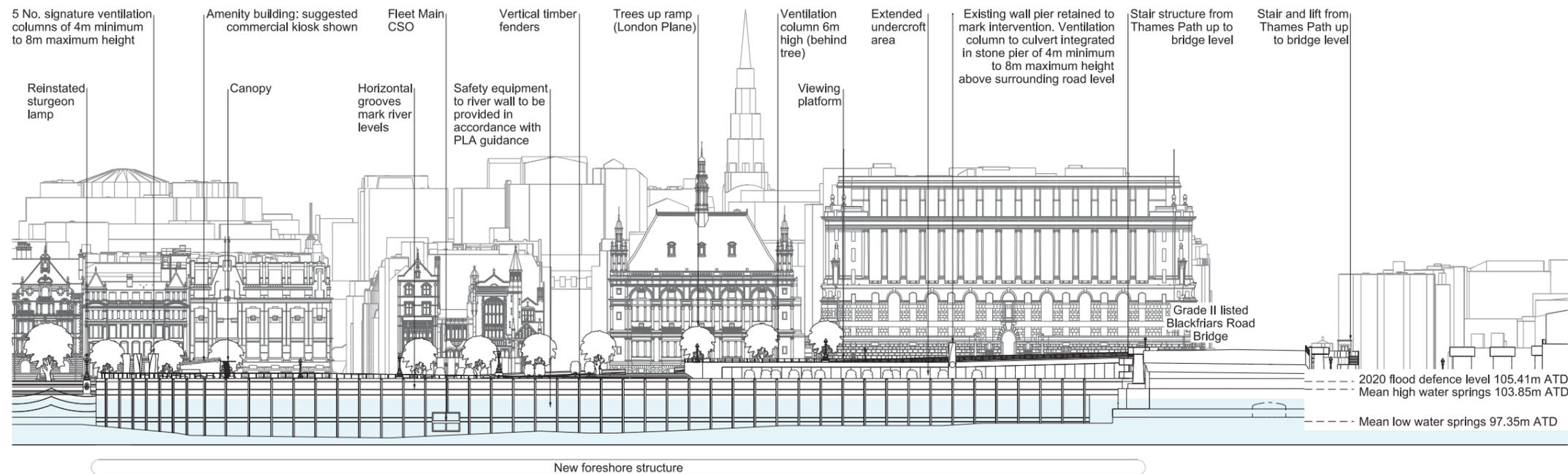
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Notes:**

1. All dimensions and levels are approximate.



**As existing South (river) elevation**



**Proposed South (river) elevation**

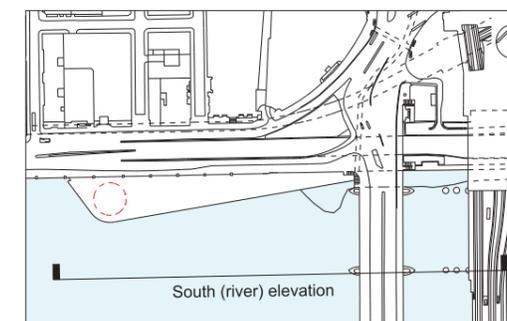


**ILLUSTRATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent

As existing and proposed  
South (river) elevation  
Book of plans - section 19  
DCO-PP-17X-BLABF-190031  
January 2013



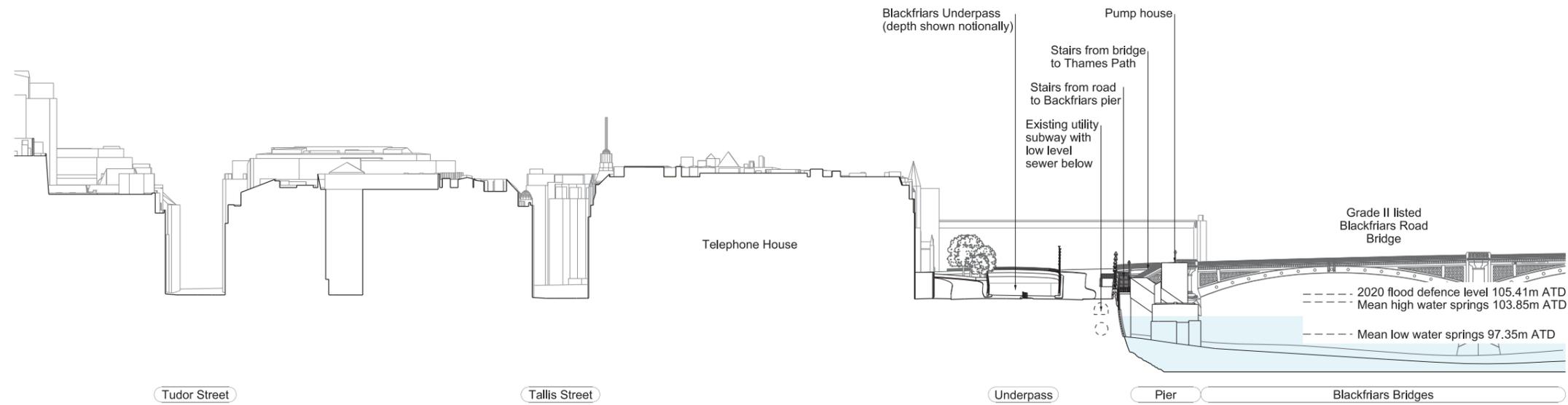
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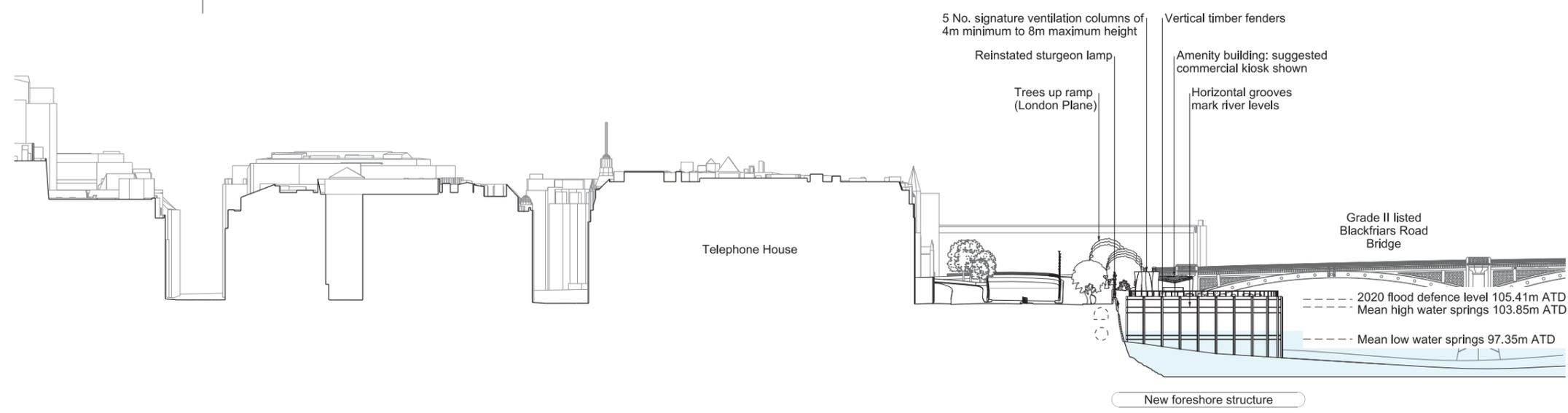
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Notes:**

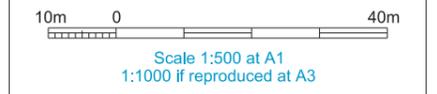
1. All dimensions and levels are approximate.



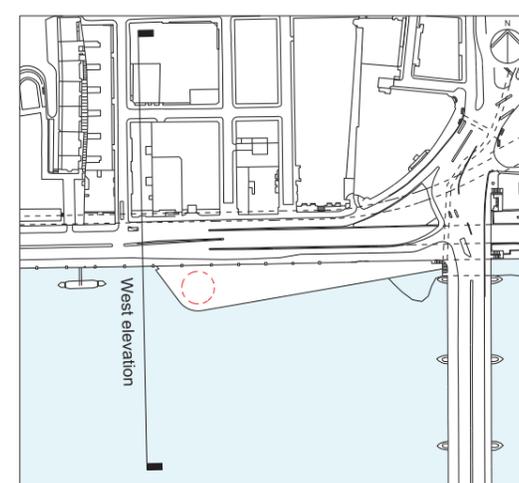
As existing West elevation



Proposed West elevation



**ILLUSTRATIVE**



**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 As existing and proposed  
 West elevation  
 Book of plans - section 19  
 DCO-PP-17X-BLABF-190032  
 January 2013

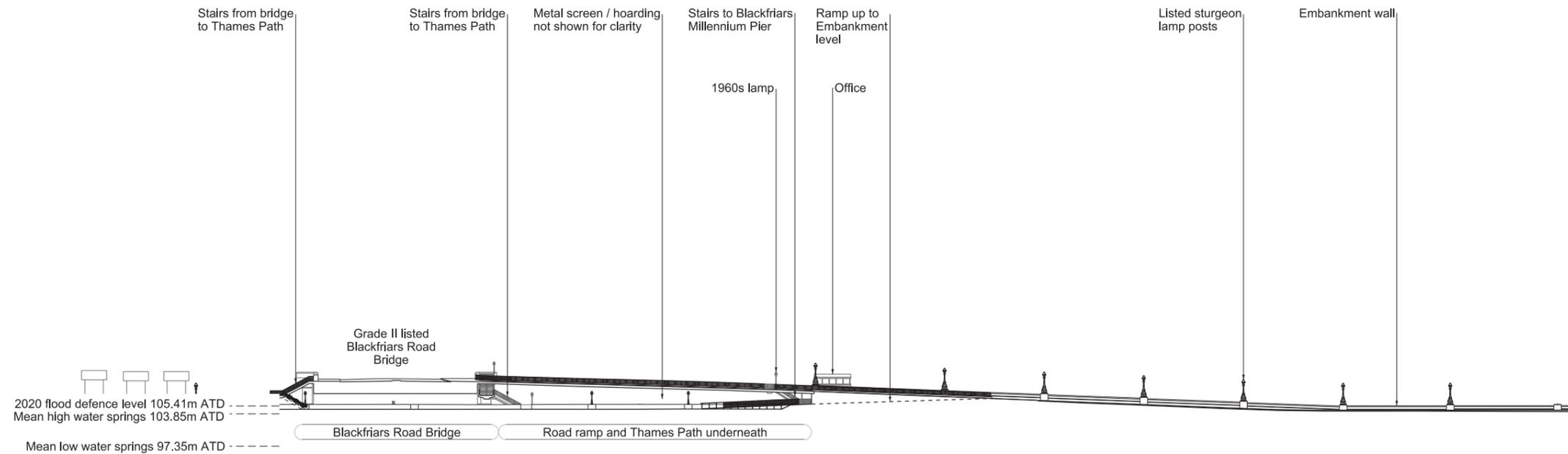


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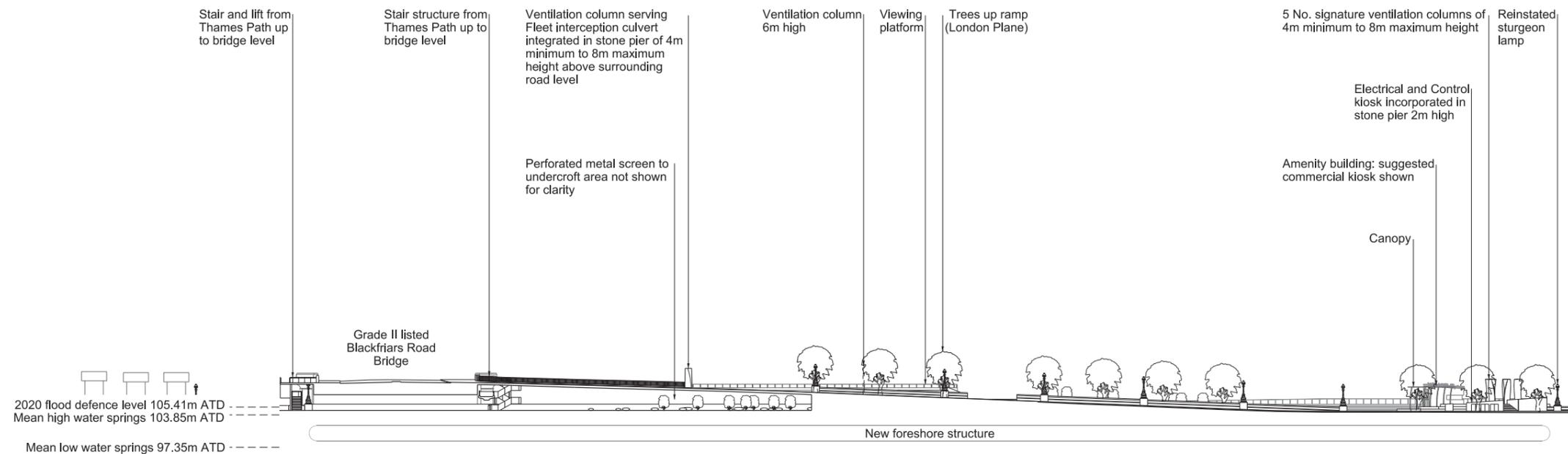


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

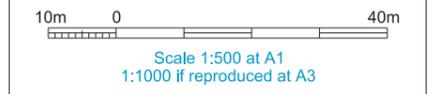
**Notes:**  
1. All dimensions and levels are approximate.



As existing North (roadside) elevation



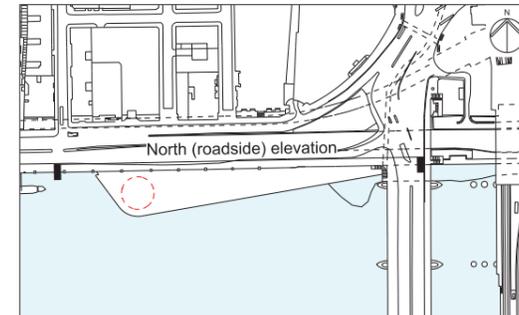
Proposed North (roadside) elevation



**ILLUSTRATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
As existing and proposed  
North roadside elevation  
Book of plans - section 19  
DCO-PP-17X-BLABF-190033  
January 2013

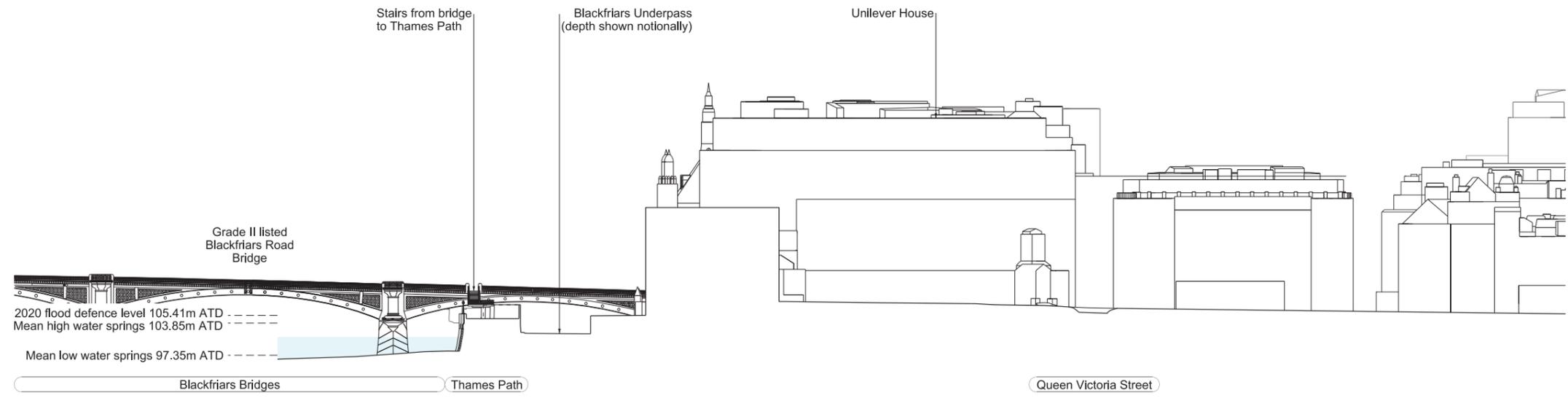


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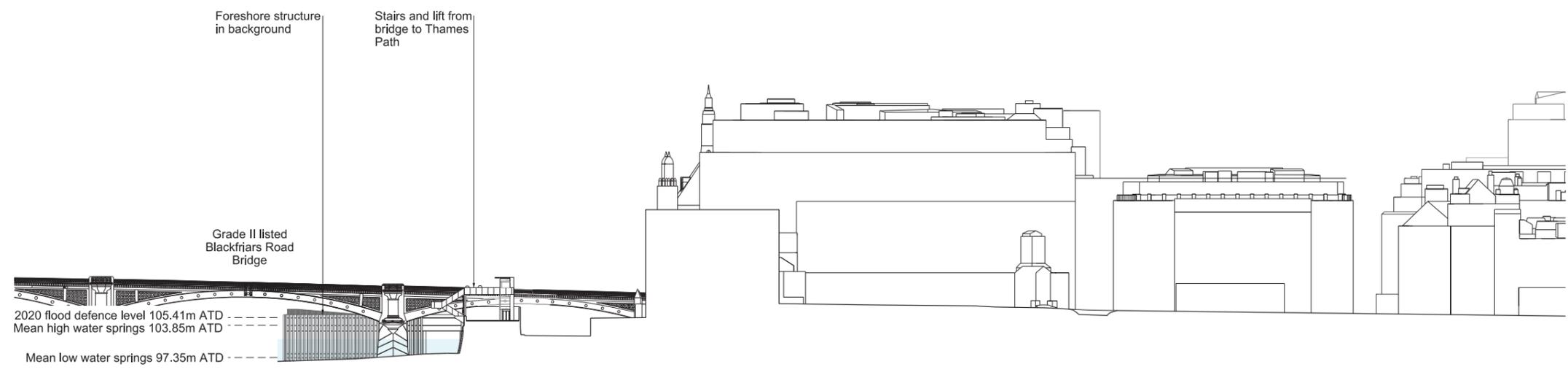


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

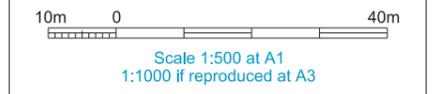
Notes:  
1. All dimensions and levels are approximate.



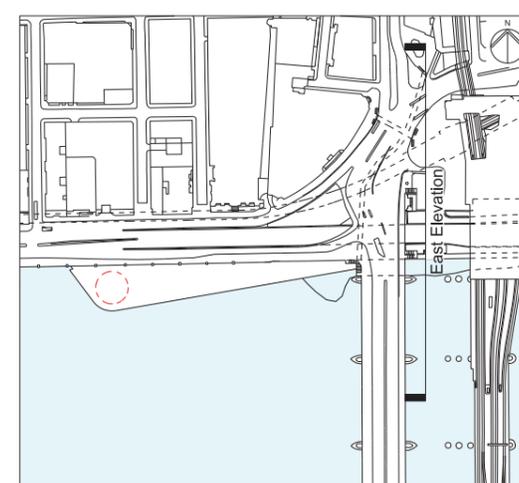
As existing East elevation



Proposed East elevation



**ILLUSTRATIVE**



**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Application for Development Consent**  
As existing and proposed  
East elevation  
Book of plans - section 19  
DCO-PP-17X-BLAF-190034  
January 2013



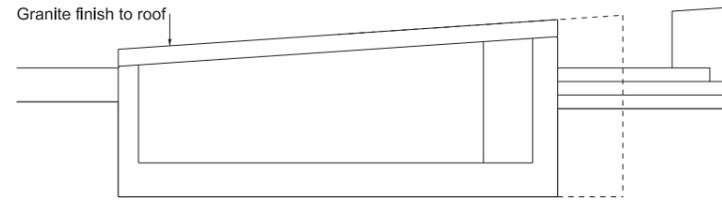
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

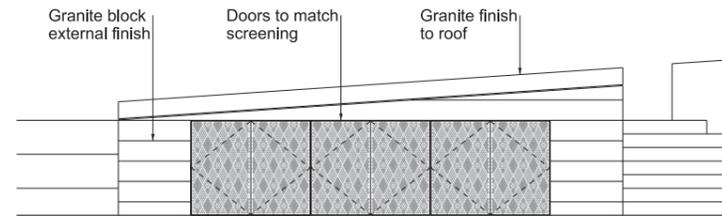
**Notes:**

- 1. All dimensions and levels are approximate.



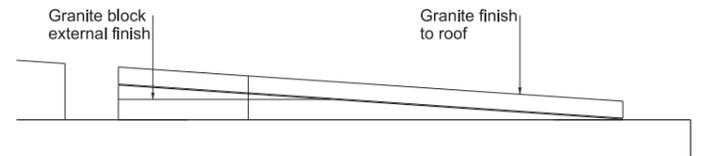
**West kiosk section**

Scale 1:50



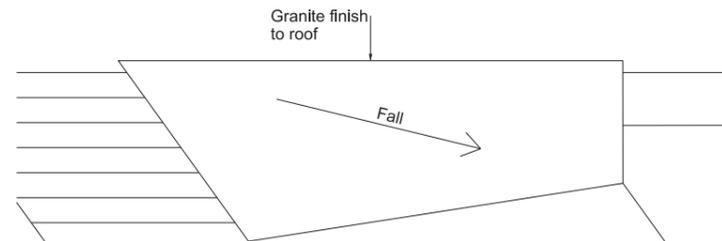
**West kiosk North elevation**

Scale 1:50



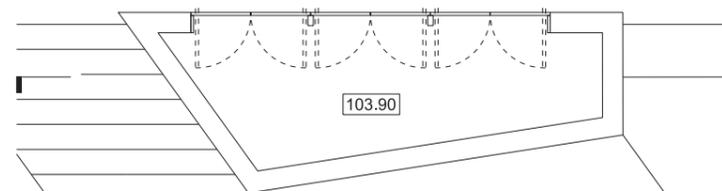
**West kiosk South elevation**

Scale 1:50



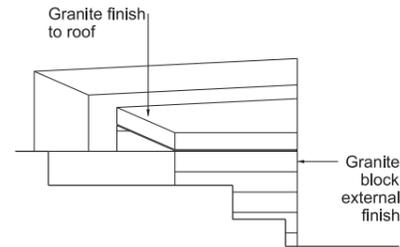
**West kiosk roof plan**

Scale 1:50



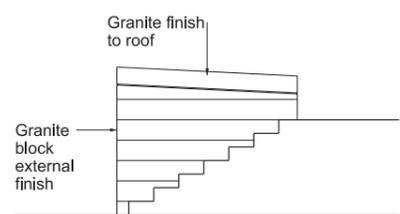
**West kiosk floor plan**

Scale 1:50



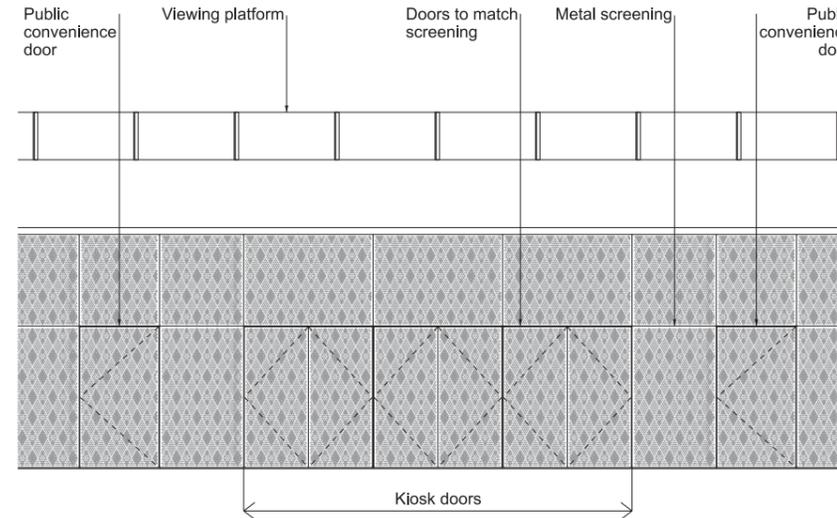
**West kiosk East elevation**

Scale 1:50



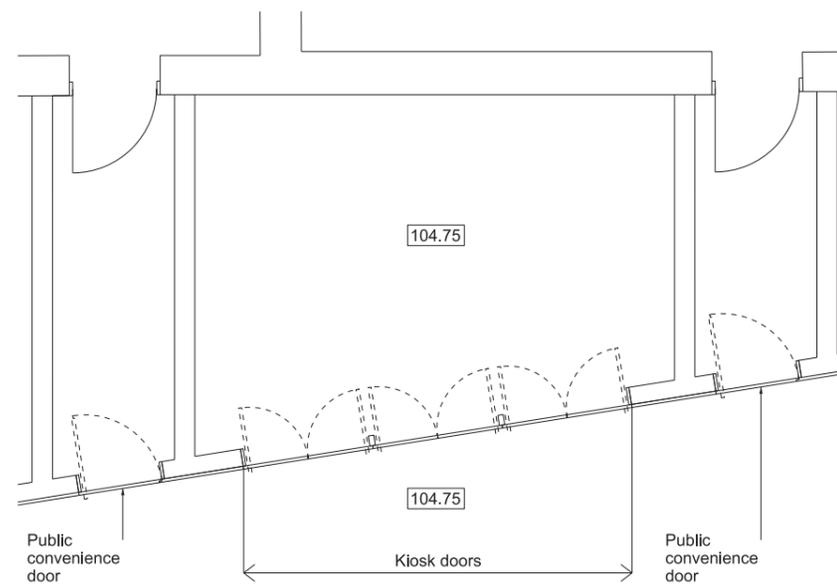
**West kiosk West elevation**

Scale 1:50



**Undercroft kiosk South elevation**

Scale 1:50



**Undercroft kiosk plan**

Scale 1:50



**INDICATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Kiosk and undercroft area design intent

Book of plans - section 19  
DCO-PP-17X-BLAF-190035  
January 2013



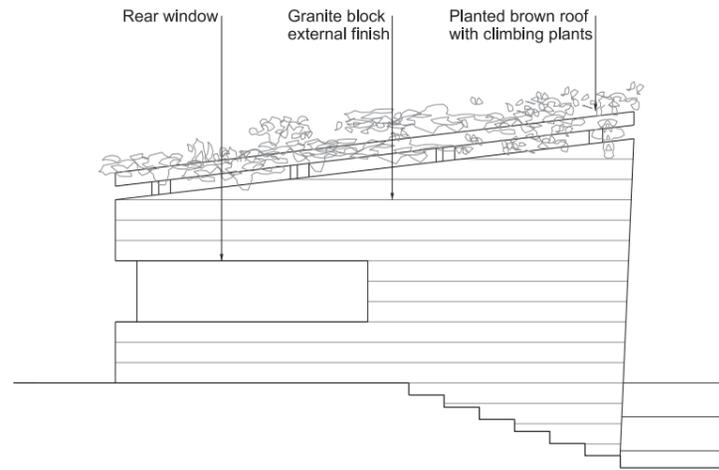
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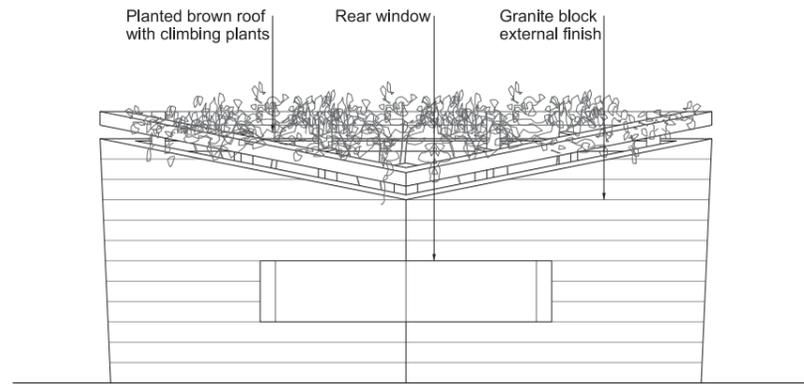
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Notes:**

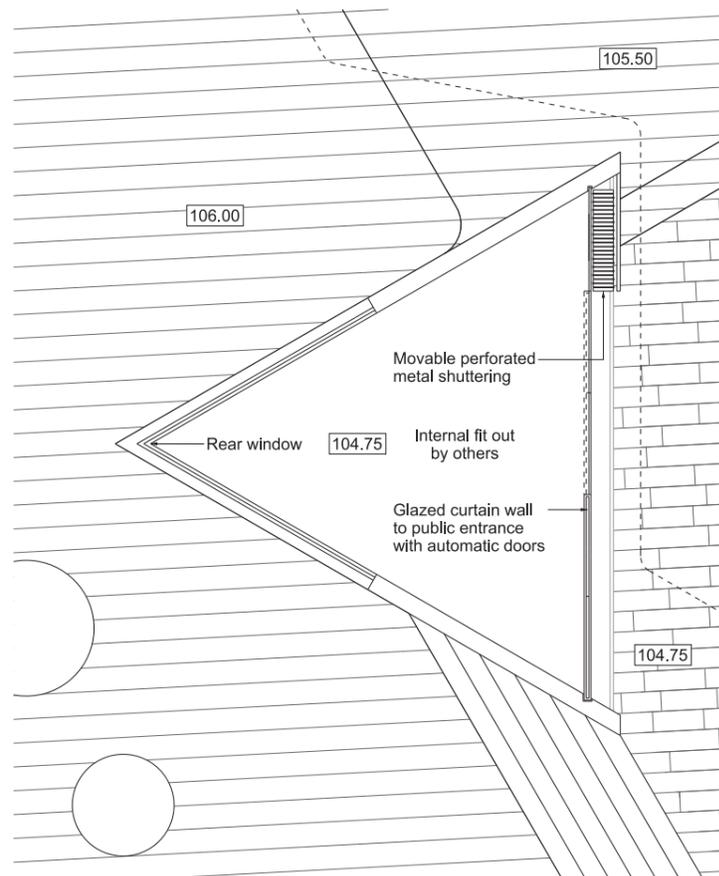
1. All dimensions and levels are approximate.



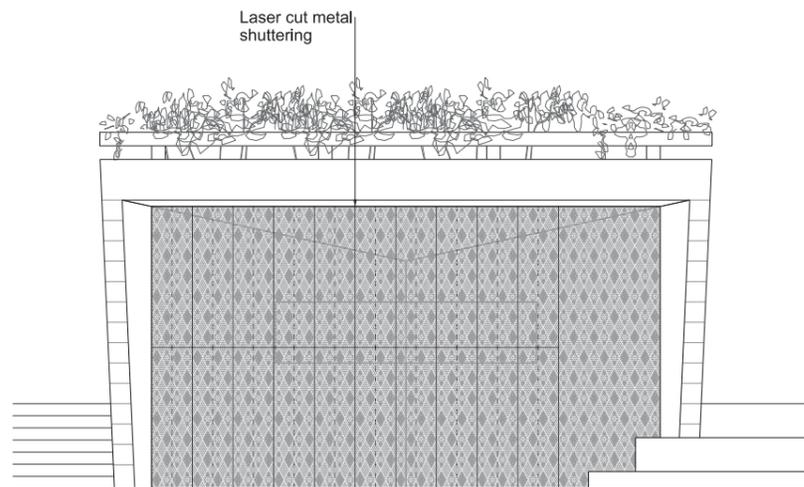
**South elevation**  
Scale 1:50



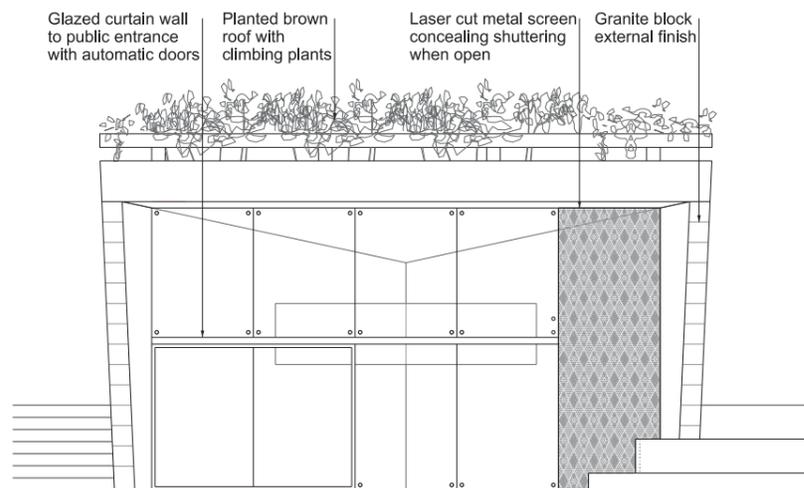
**West elevation**  
Scale 1:50



**Floor plan**  
Scale 1:50



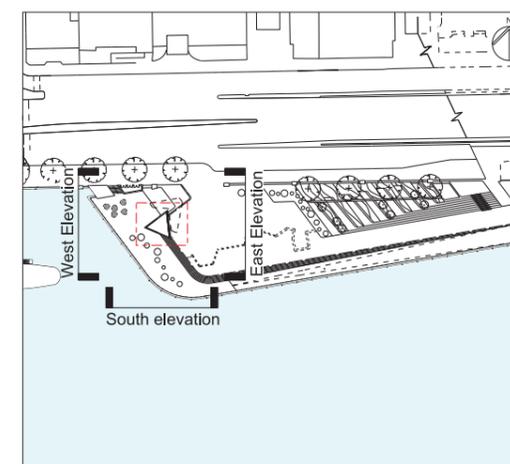
**East elevation (shuttering closed)**  
Scale 1:50



**East elevation (shuttering open)**  
Scale 1:50



**INDICATIVE**

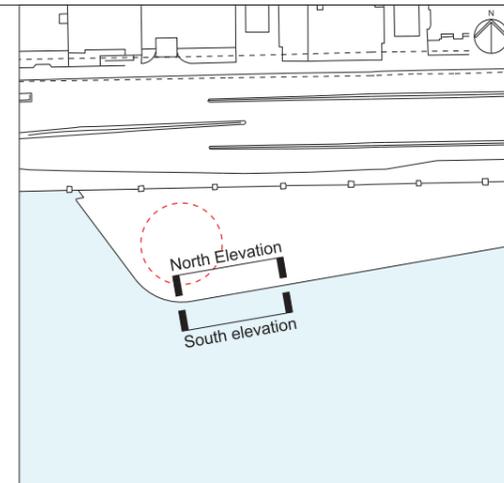


**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Kiosk design intent

Book of plans - section 19  
DCO-PP-17X-BLAF-190036  
January 2013



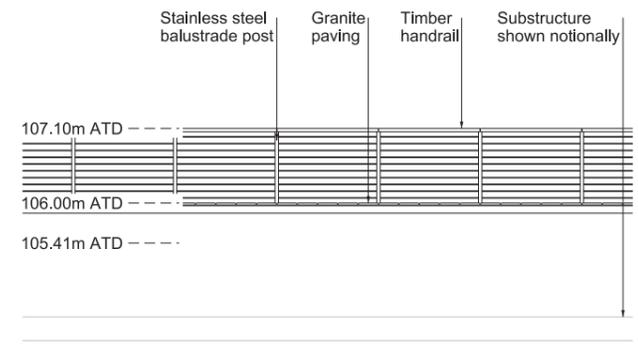


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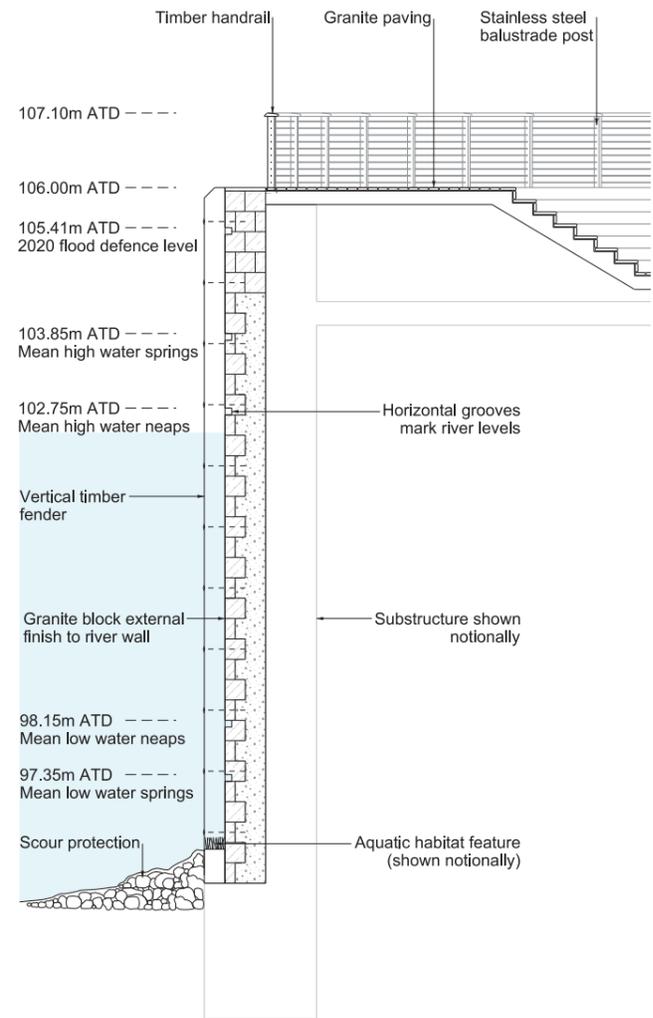


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

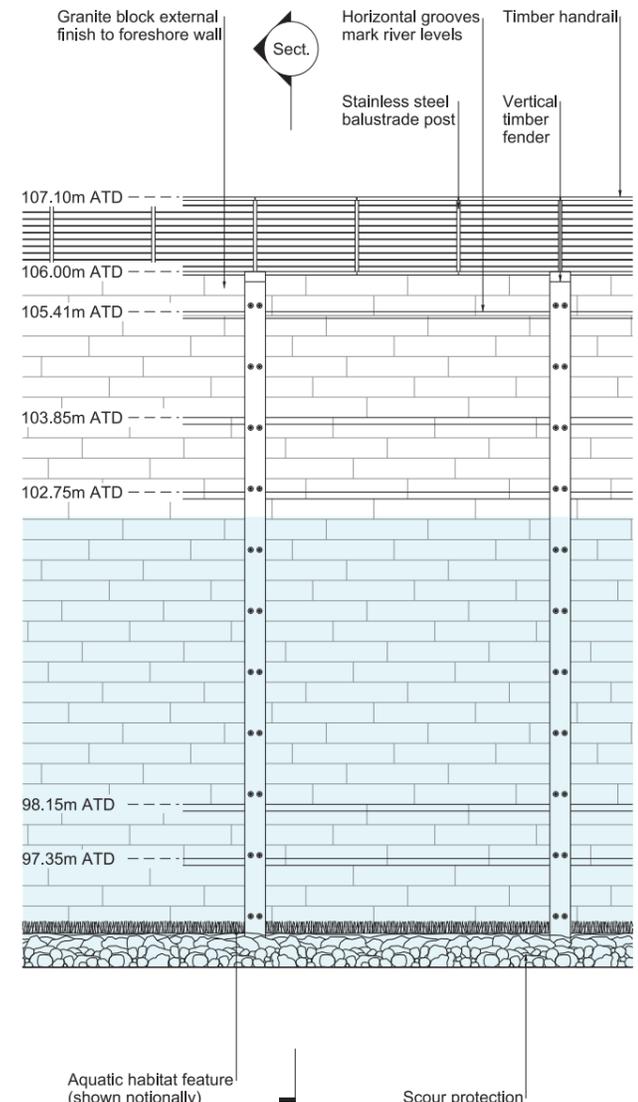
Notes:  
1. All dimensions and levels are approximate.



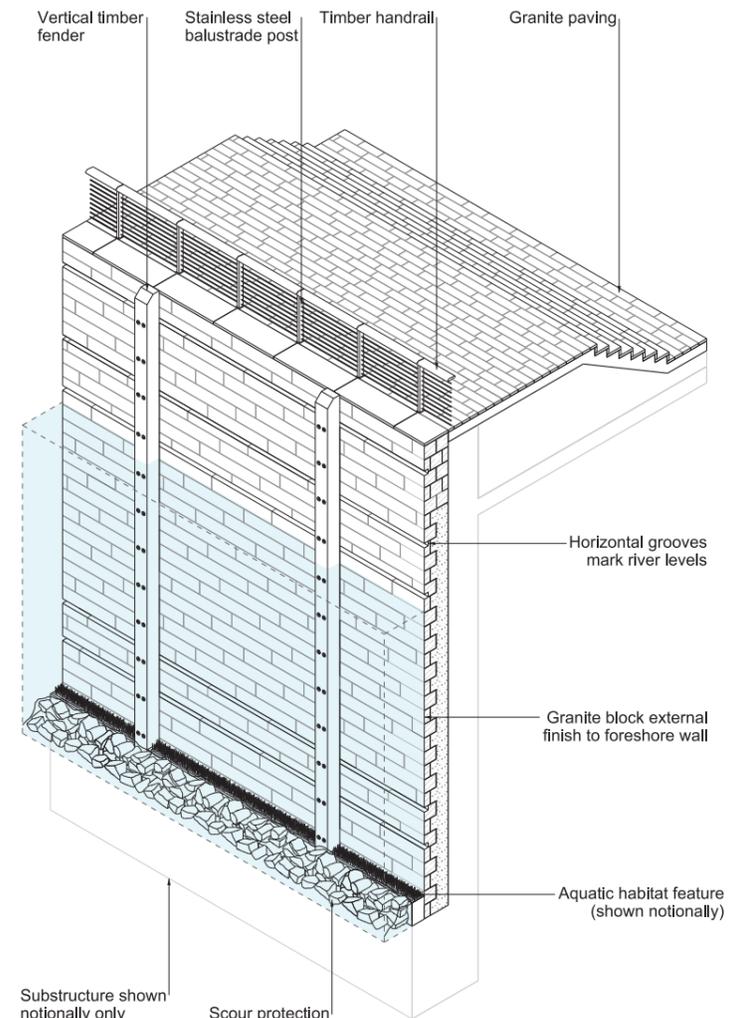
**North elevation**  
Scale 1:50



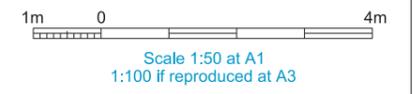
**Detail section**  
Scale 1:50



**South elevation**  
Scale 1:50



**Isometric**  
NTS

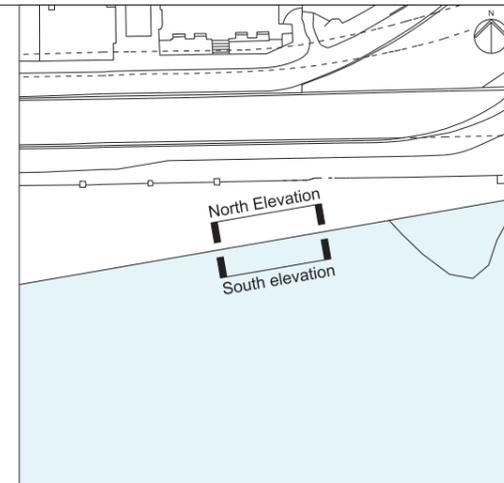


**INDICATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Typical river wall design intent  
Sheet 1 of 2  
Book of plans - section 19  
DCO-PP-17X-BLAF-190037  
January 2013



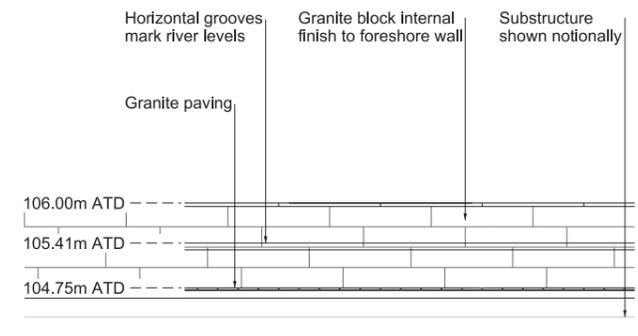


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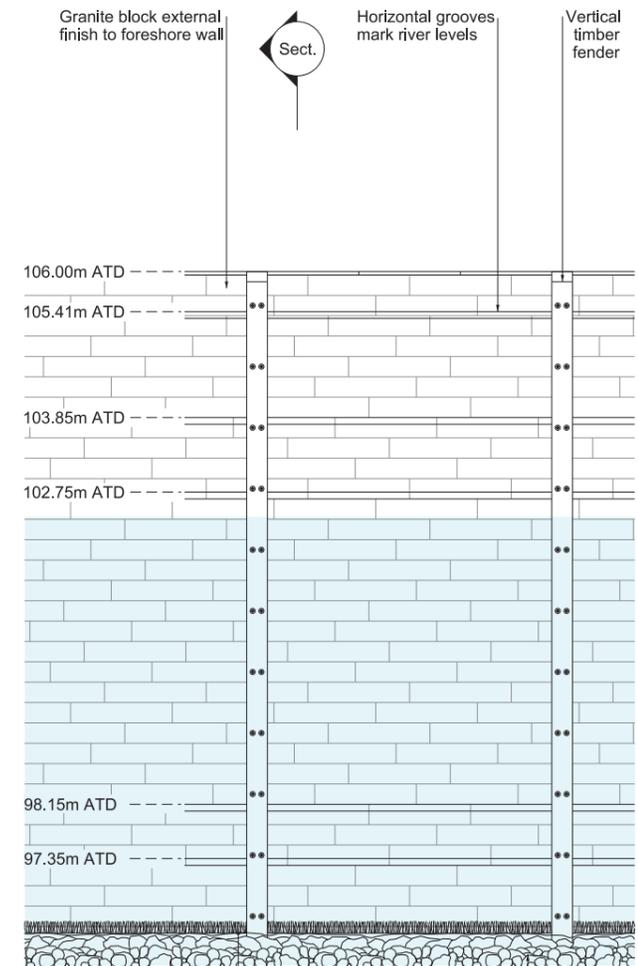


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

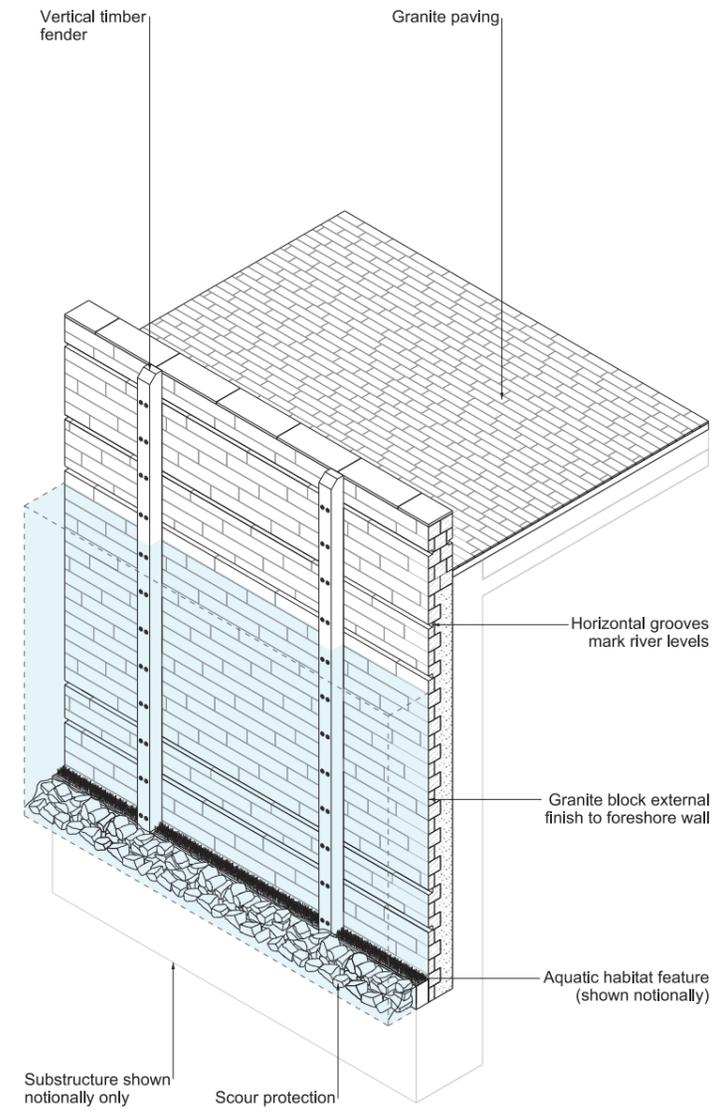
**Notes:**  
1. All dimensions and levels are approximate.



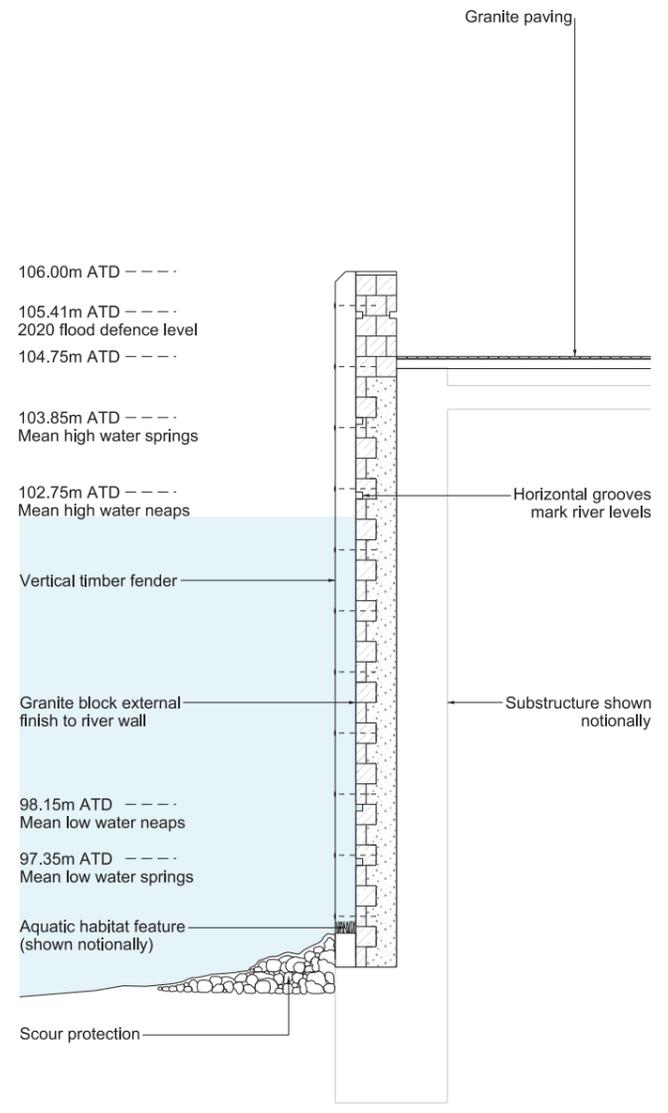
**North elevation**  
Scale 1:50



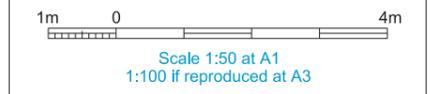
**South elevation**  
Scale 1:50



**Isometric**  
NTS



**Detail section**  
Scale 1:50

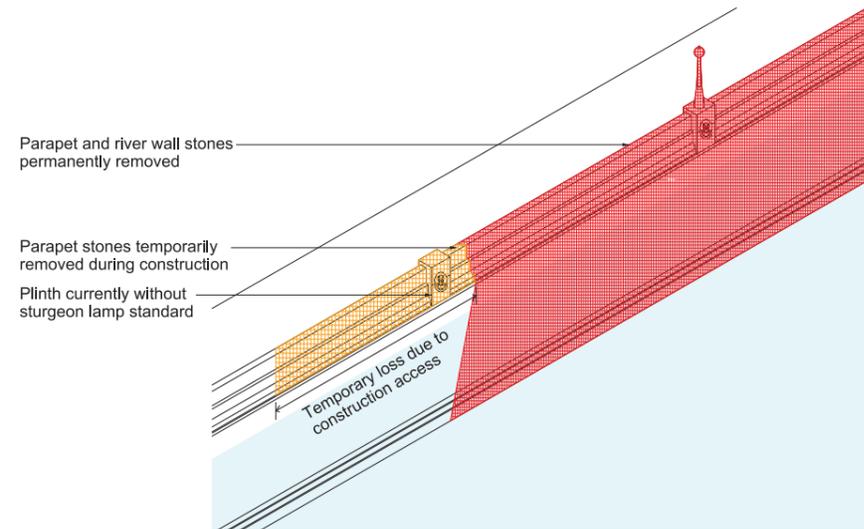


**INDICATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

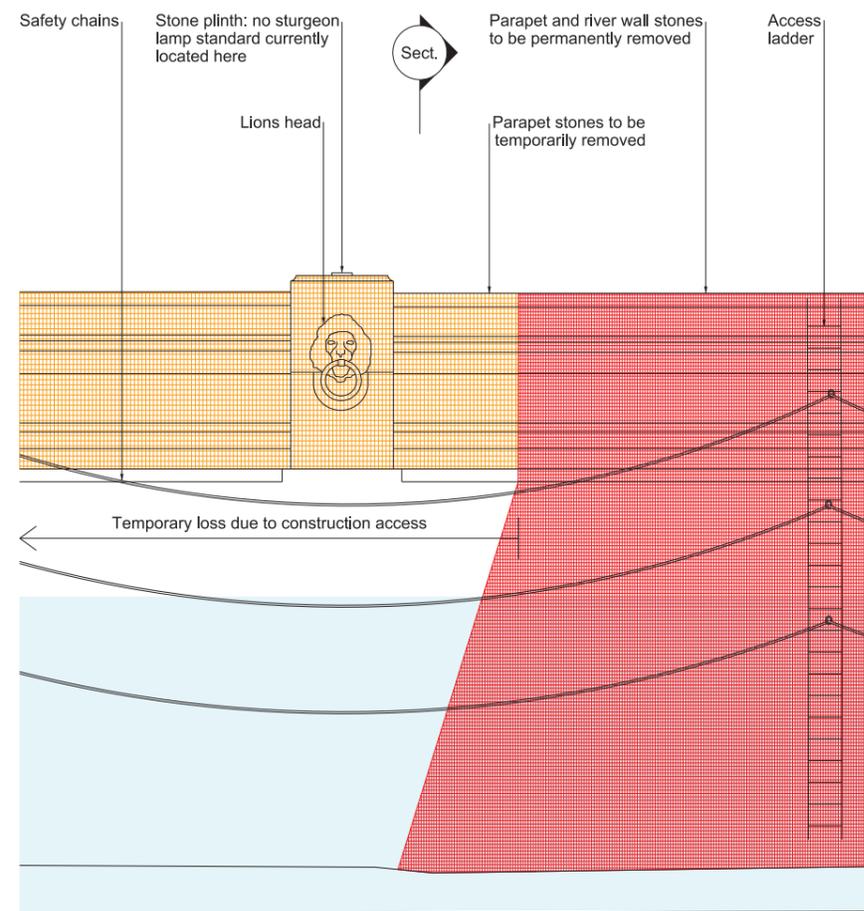
**Document Information**  
Application for Development Consent  
Typical river wall design intent  
Sheet 2 of 2  
Book of plans - section 19  
DCO-PP-17X-BLAF-190038  
January 2013





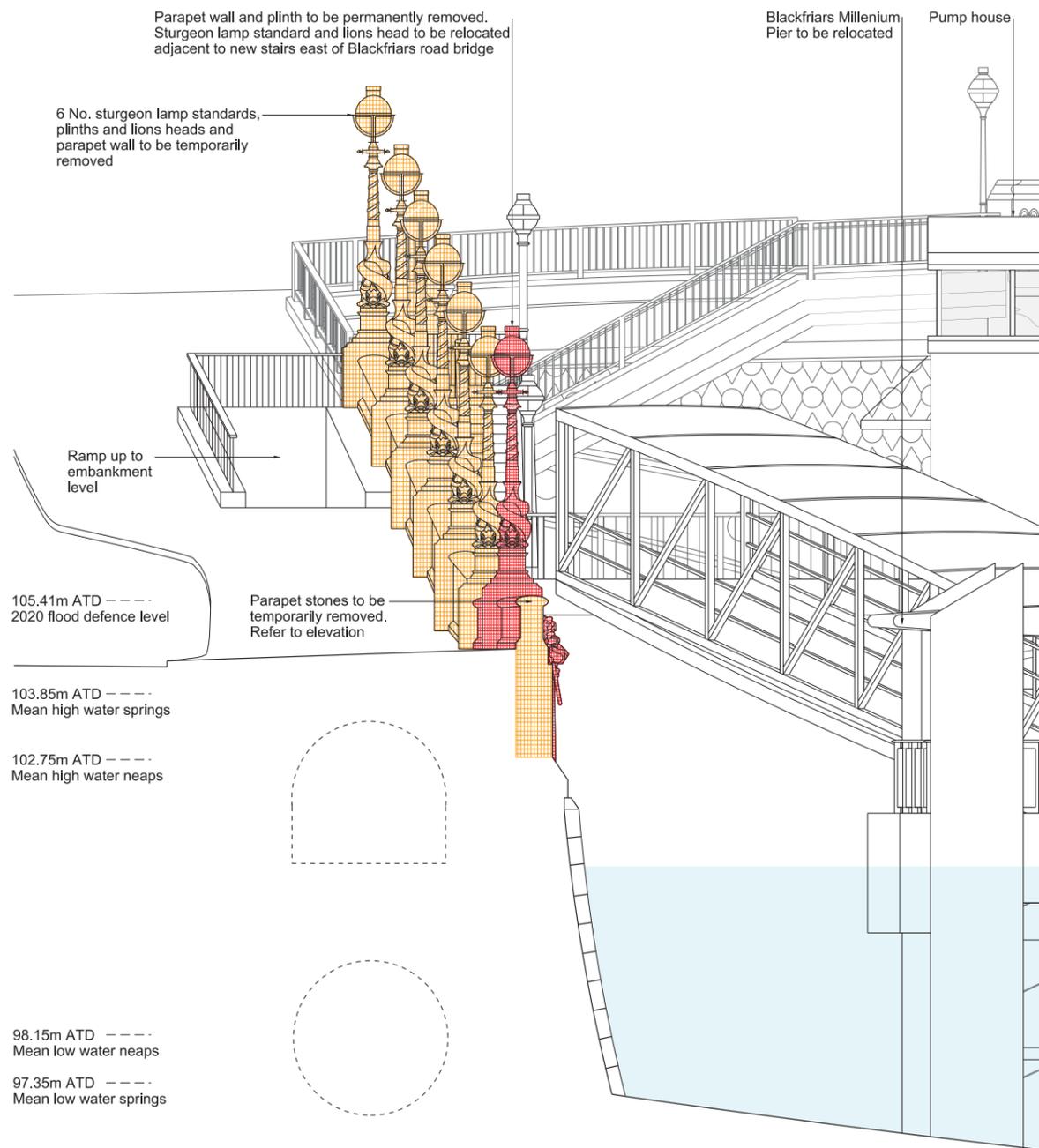
**Existing isometric**

NTS



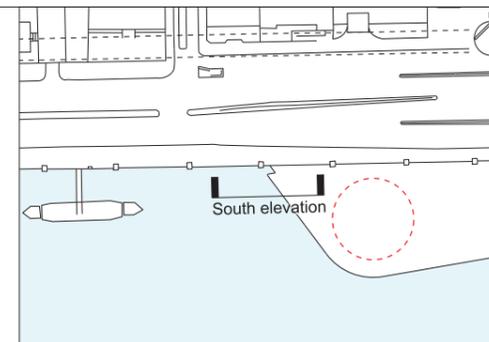
**Existing South elevation**

Scale 1:50



**Existing detail section**

Scale 1:50



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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:**

- Maximum temporary extent of loss of listed buildings / structures
- 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.



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

**FOR INFORMATION**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Application for Development Consent**  
As existing  
Listed structure interface - river wall  
Book of plans - section 19  
DCO-PP-17X-BLAF-190039  
January 2013

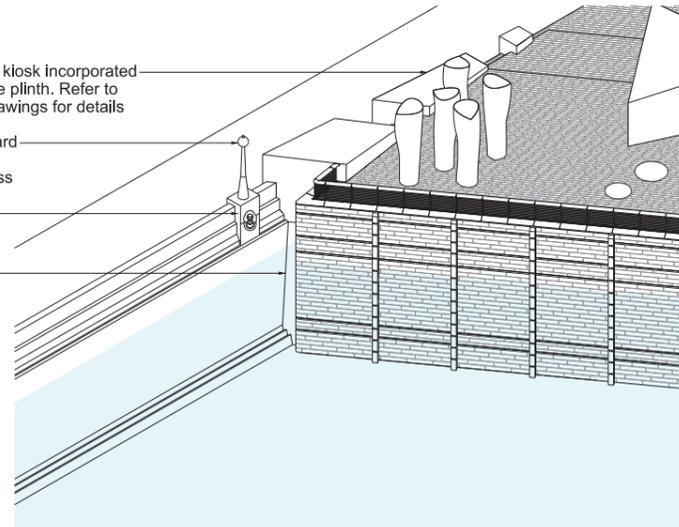


Electrical and Control kiosk incorporated into second new stone plinth. Refer to kiosk design intent drawings for details

Sturgeon lamp standard relocated here from permanent zone of loss

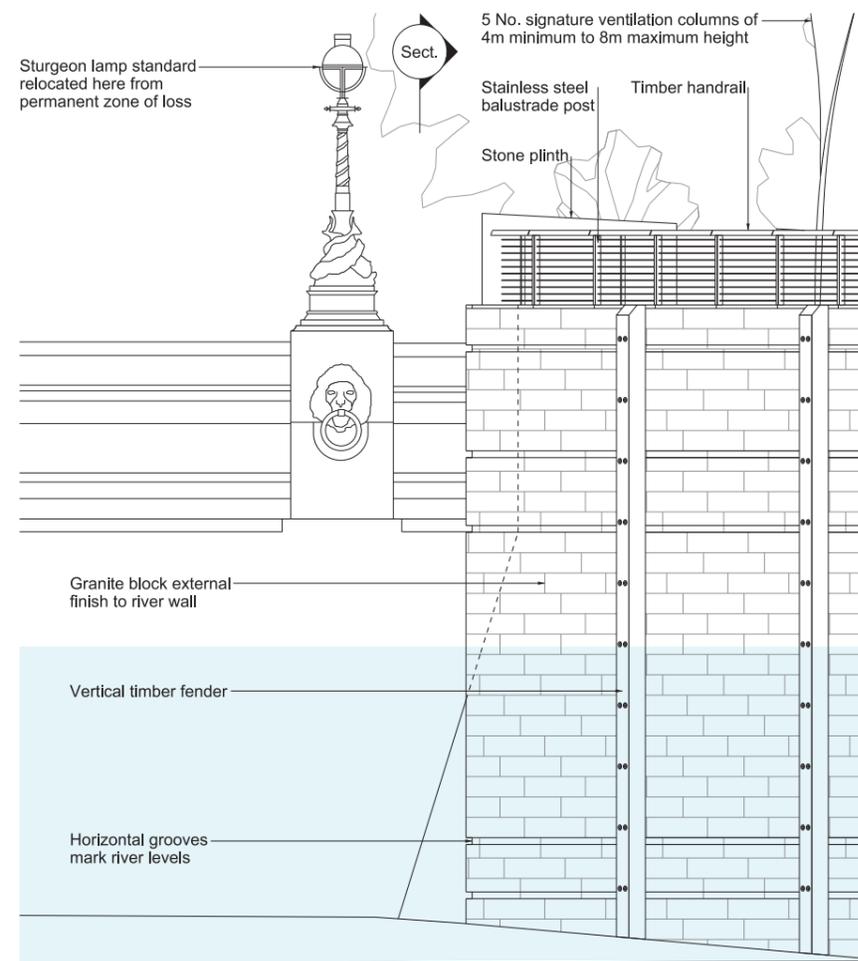
Parapet plinth and lions head reinstated

Battered wall below parapet level to discourage accumulation of river debris



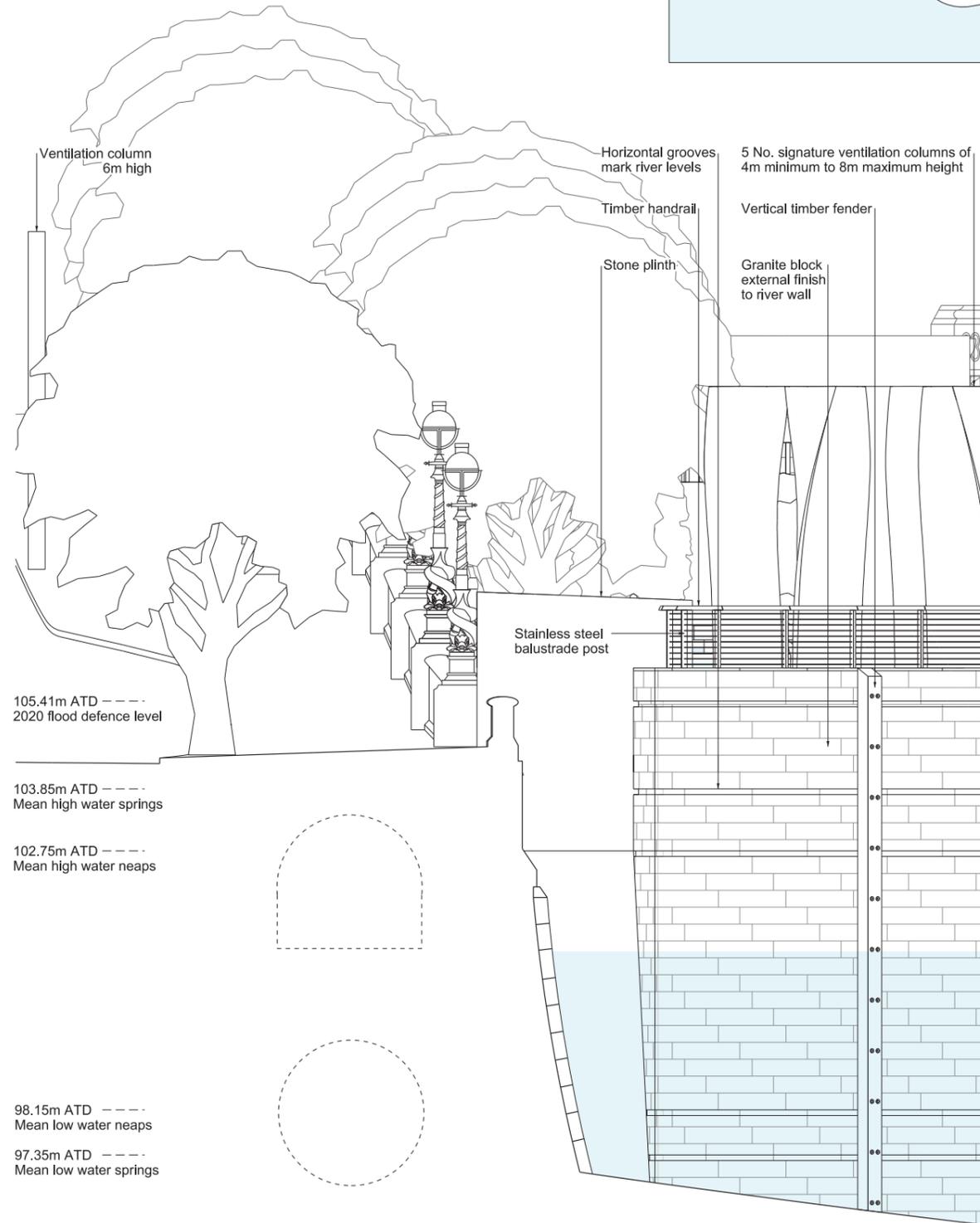
**Proposed isometric**

NTS



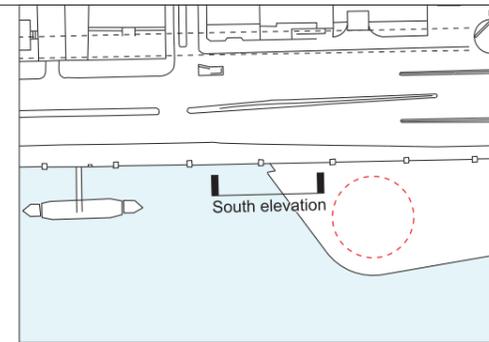
**Proposed South elevation**

Scale 1:50



**Proposed detail section**

Scale 1:50



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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. Drawing is based on as-constructed drawings and topographical survey and not on heritage survey.



**INDICATIVE**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Proposed  
 Listed structure interface - river wall  
 Book of plans - section 19  
 DCO-PP-17X-BLAF-190040  
 January 2013



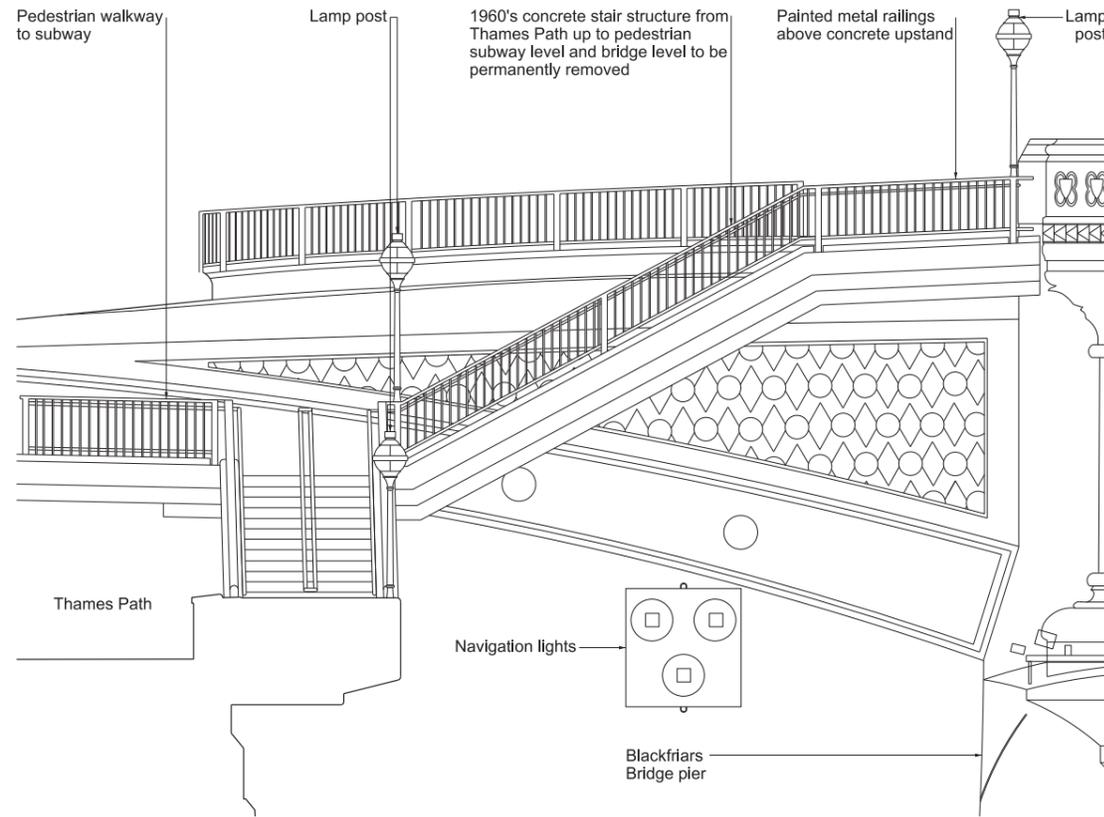
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

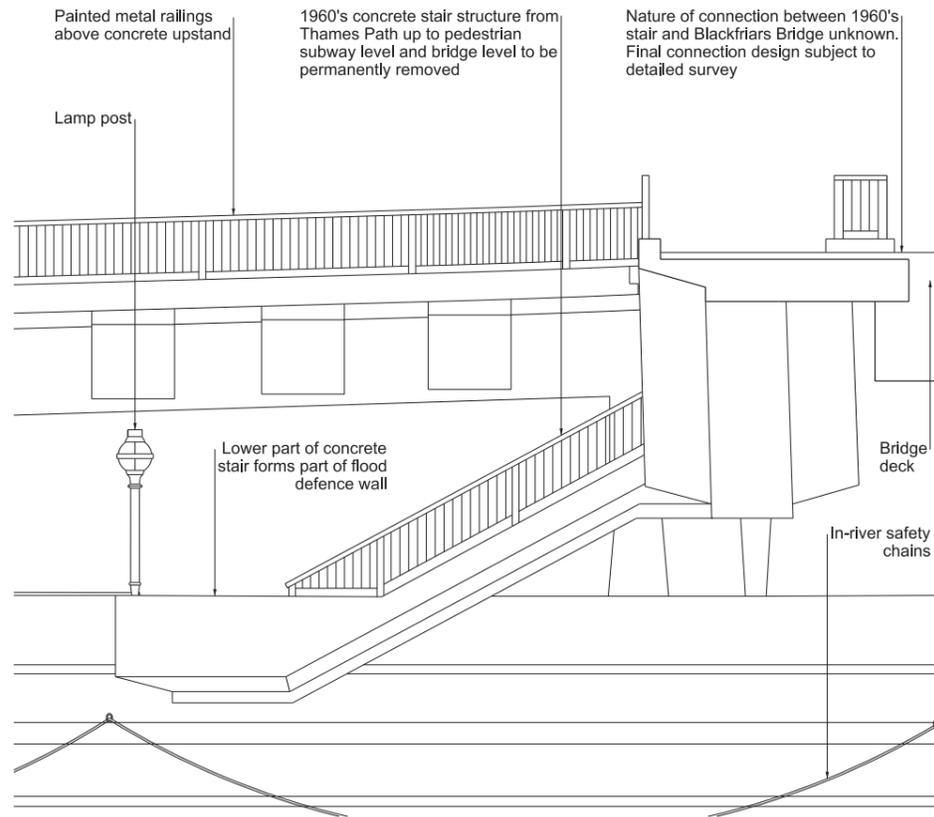
- Key:**
- Listed buildings / structures within LLAU (plan only)
  - Maximum permanent extent of loss of listed buildings / structures (plan only)

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



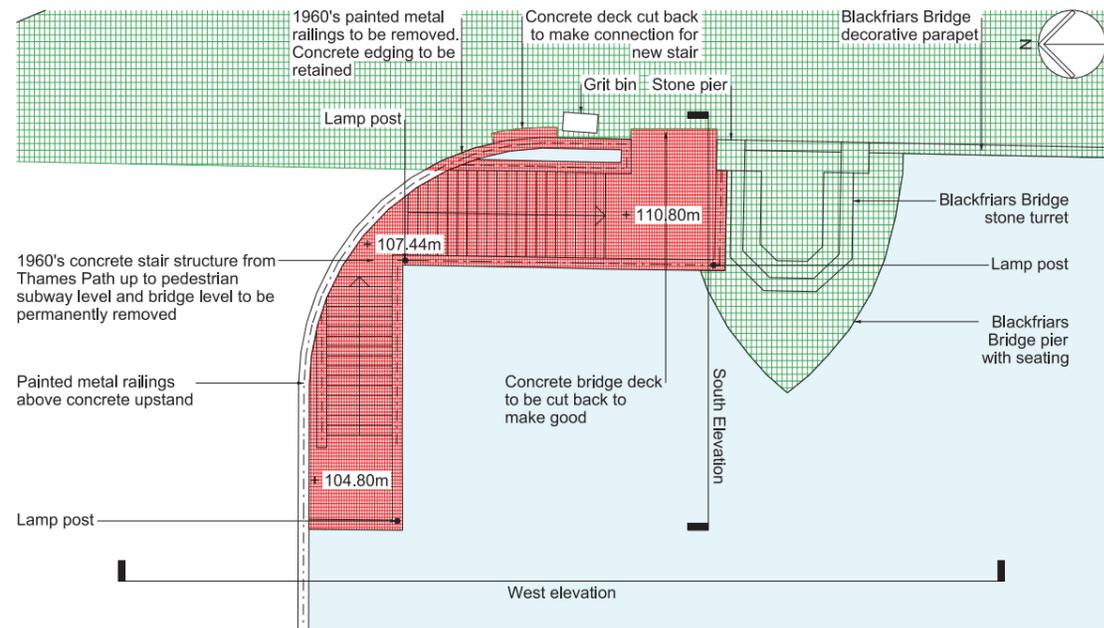
**West stair West elevation**

Scale 1:50



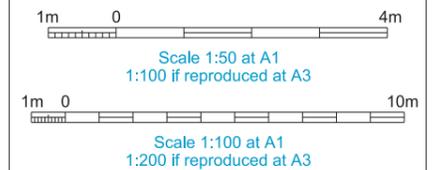
**West stair South elevation**

Scale 1:50



**West stair bridge level**

Scale 1:100



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

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
As existing listed structure interface - Bridge stairs (west)  
Book of plans - section 19  
DCO-PP-17X-BLAF-190041  
January 2013



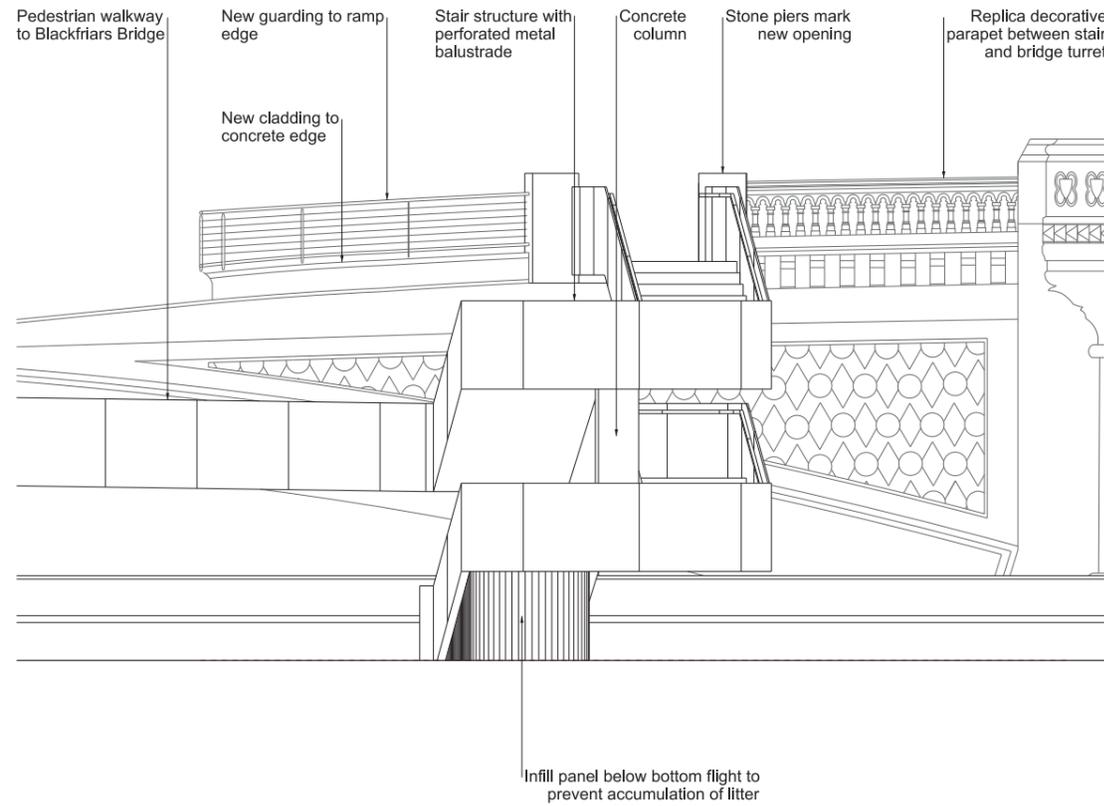
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

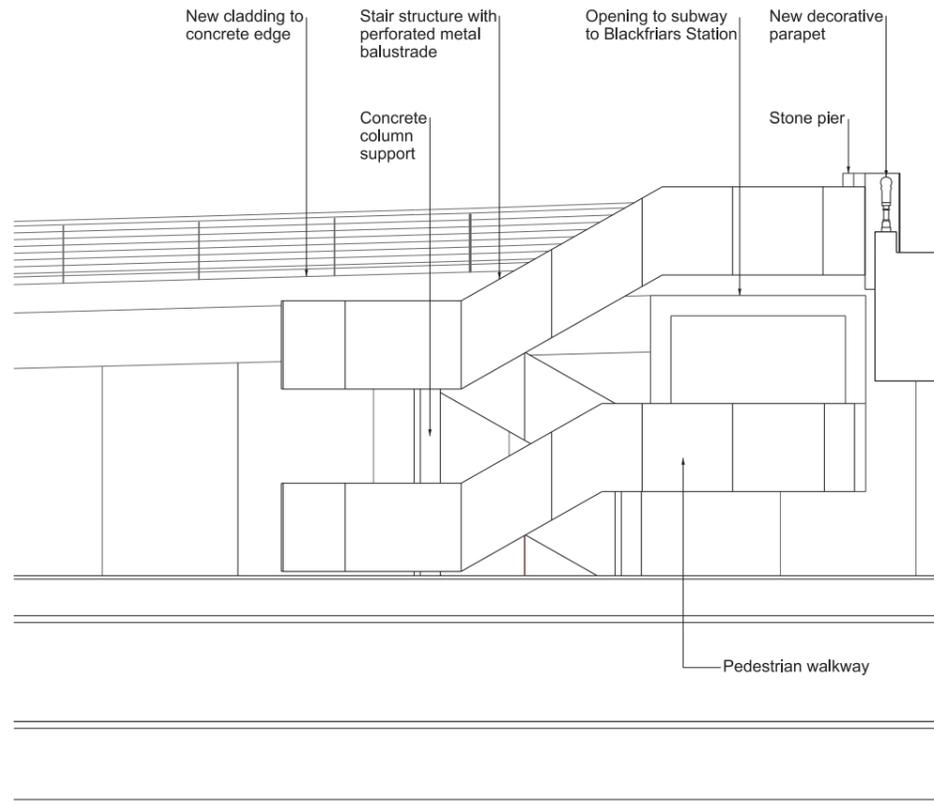
**Notes:**

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



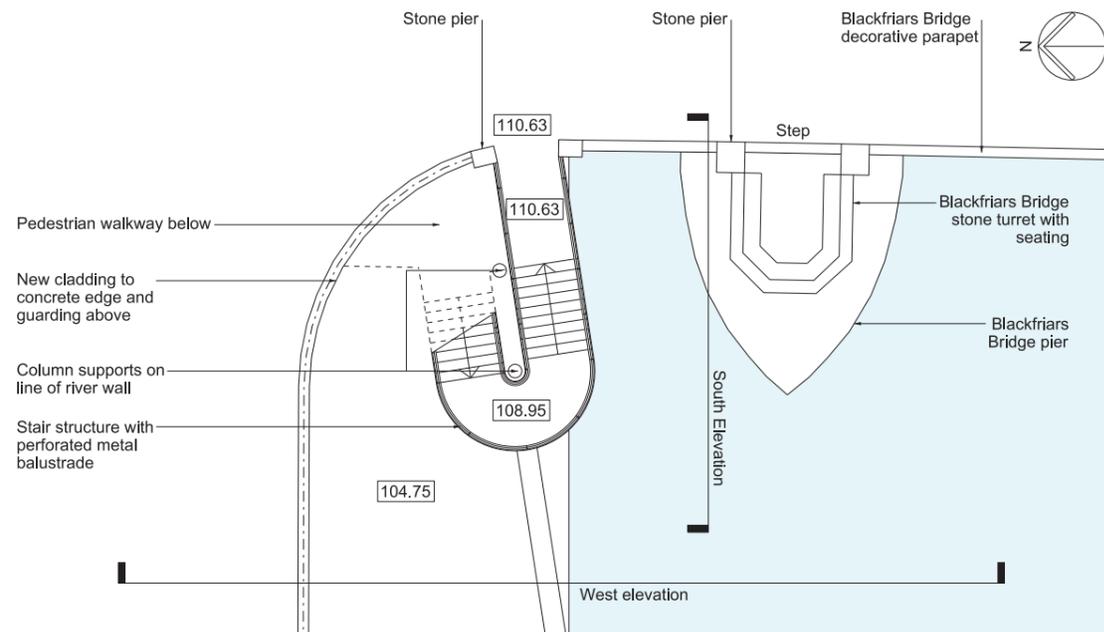
**West stair West elevation**

Scale 1:50



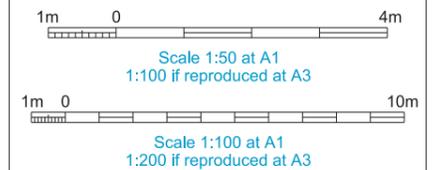
**West stair South elevation**

Scale 1:50



**West stair bridge level**

Scale 1:100



**INDICATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Proposed listed structure interface -  
Bridge stairs (west)  
Book of plans - section 19  
DCO-PP-17X-BLABF-190042  
January 2013



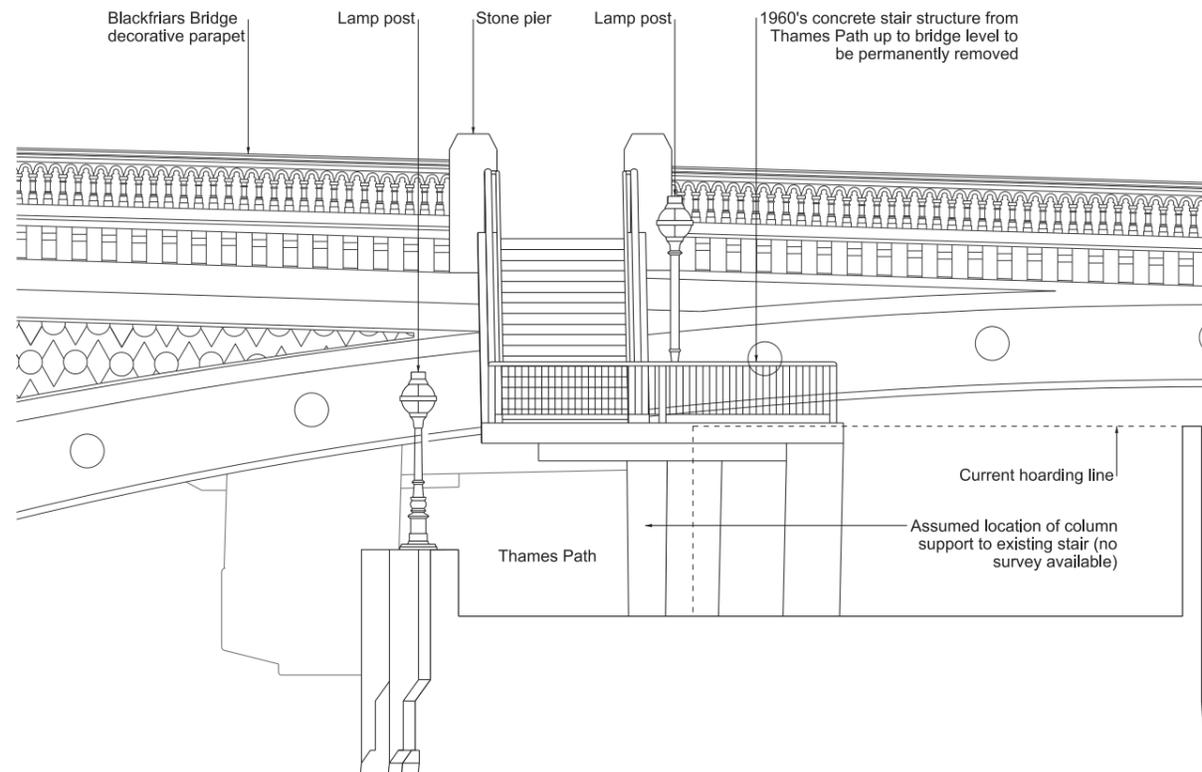
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

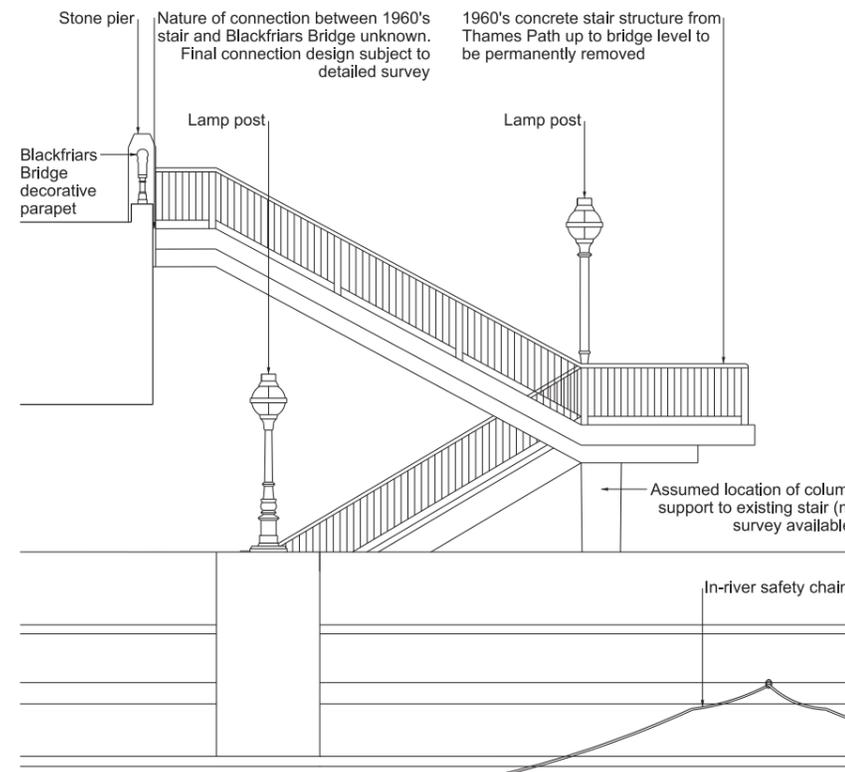
- Key:**
-  Listed buildings / structures within LLAU (plan only)
  -  Maximum permanent extent of loss of listed buildings / structures (plan only)

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



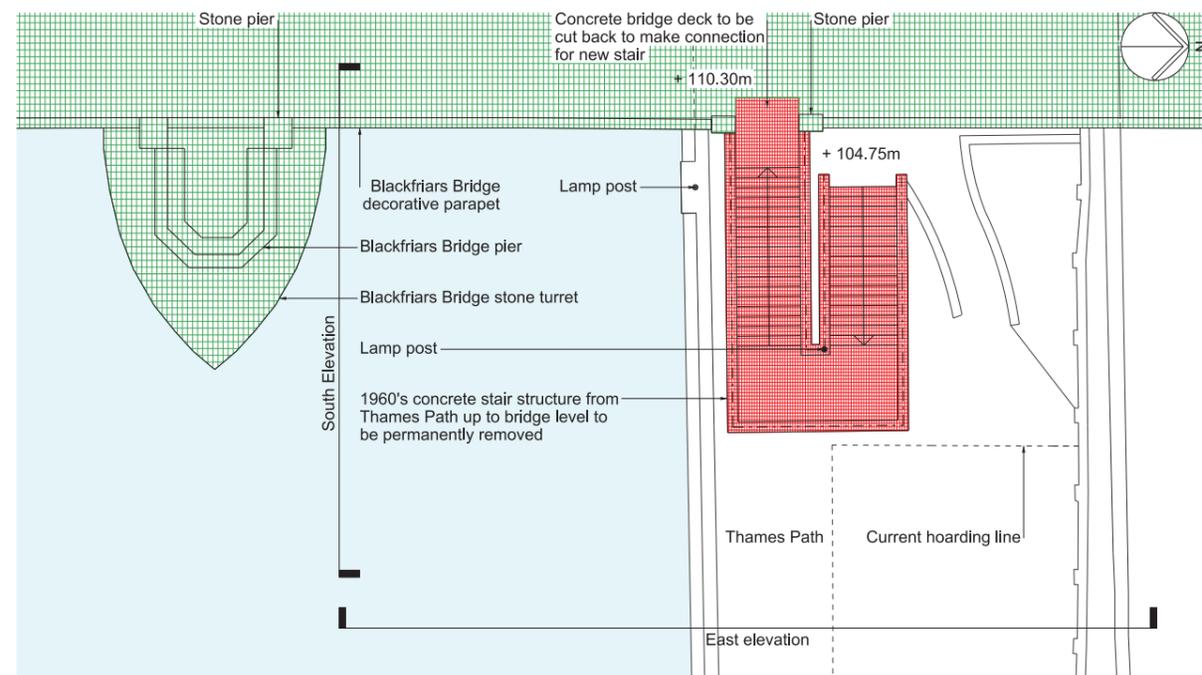
**East stair East elevation**

Scale 1:50



**East stair South elevation**

Scale 1:50



**East stair bridge level**

Scale 1:100



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



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

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

**Location**  
**Blackfriars Bridge Foreshore**  
City of London

**Document Information**  
**Application for Development Consent**  
As existing listed structure interface -  
Bridge stairs (east)  
Book of plans - section 19  
DCO-PP-17X-BLABF-190043  
January 2013



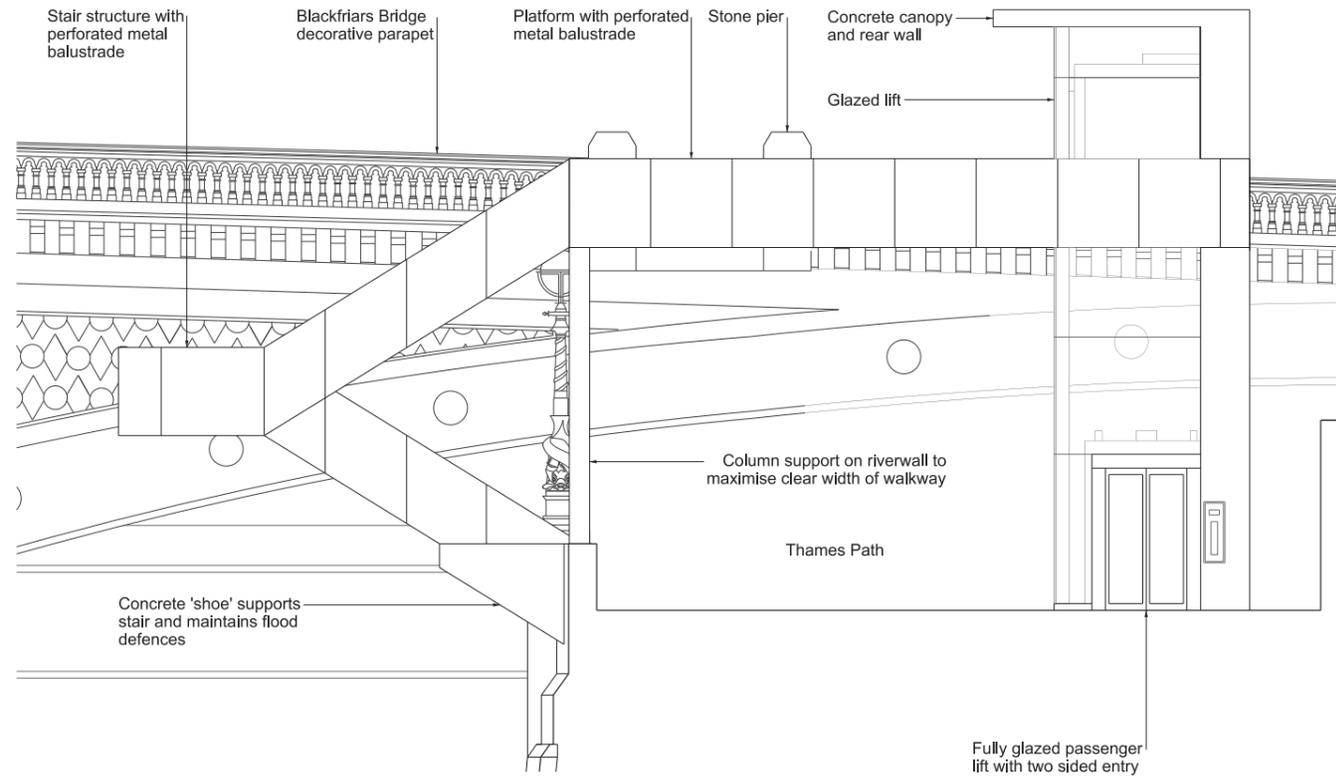
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

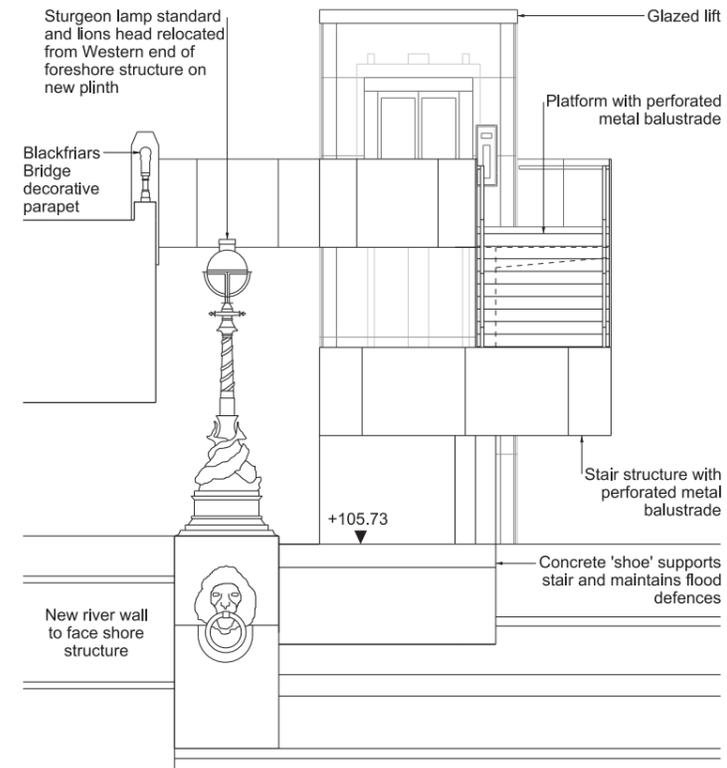
**Notes:**

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



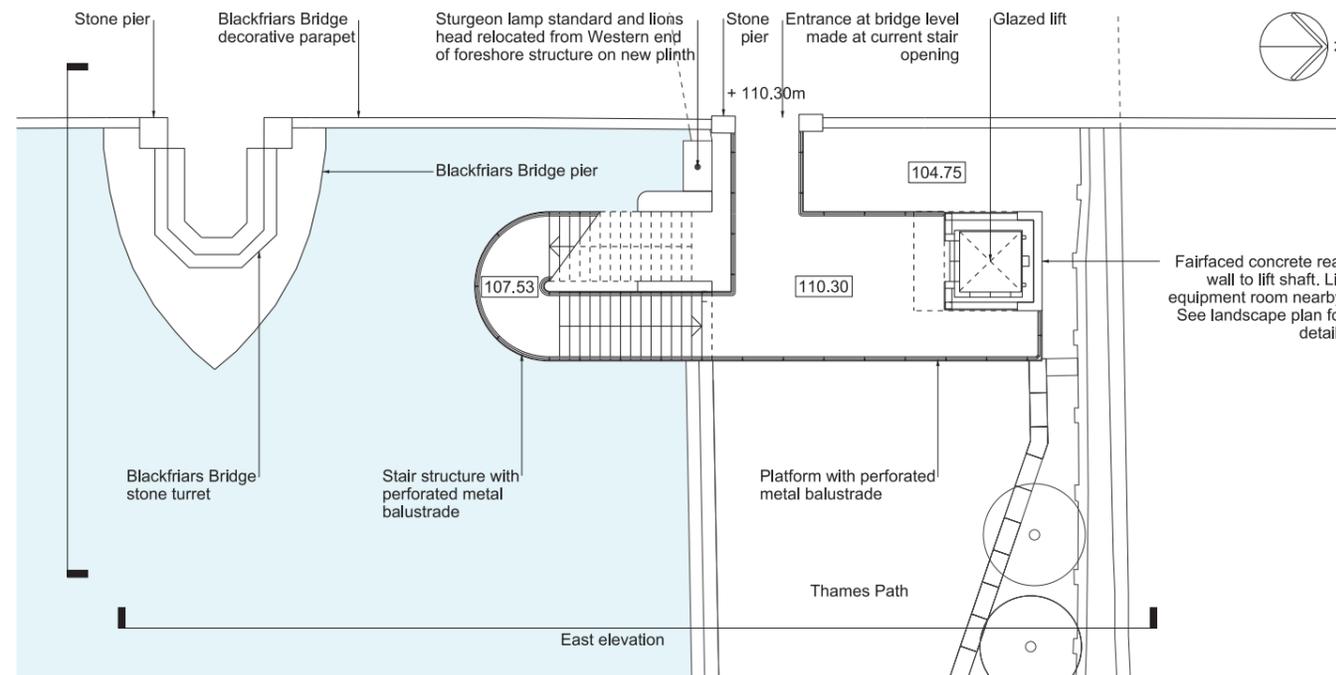
**East stair East elevation**

Scale 1:50



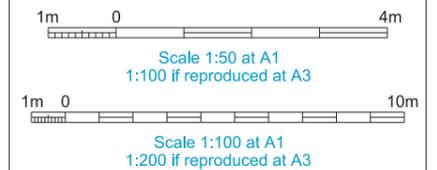
**East stair South elevation**

Scale 1:50



**East stair bridge level**

Scale 1:100



**INDICATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Proposed listed structure interface -  
Bridge stairs (east)  
Book of plans - section 19  
DCO-PP-17X-BLABF-190044  
January 2013

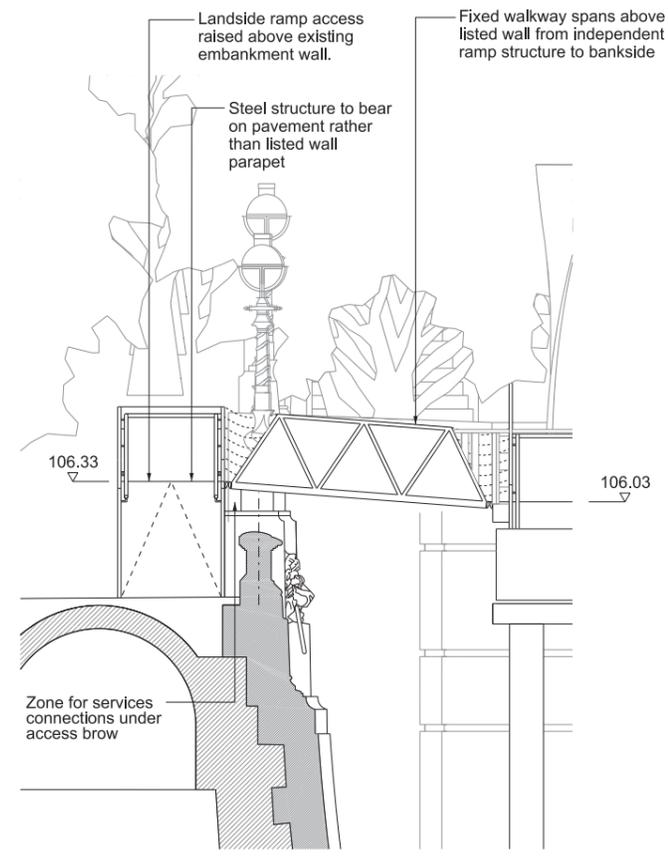
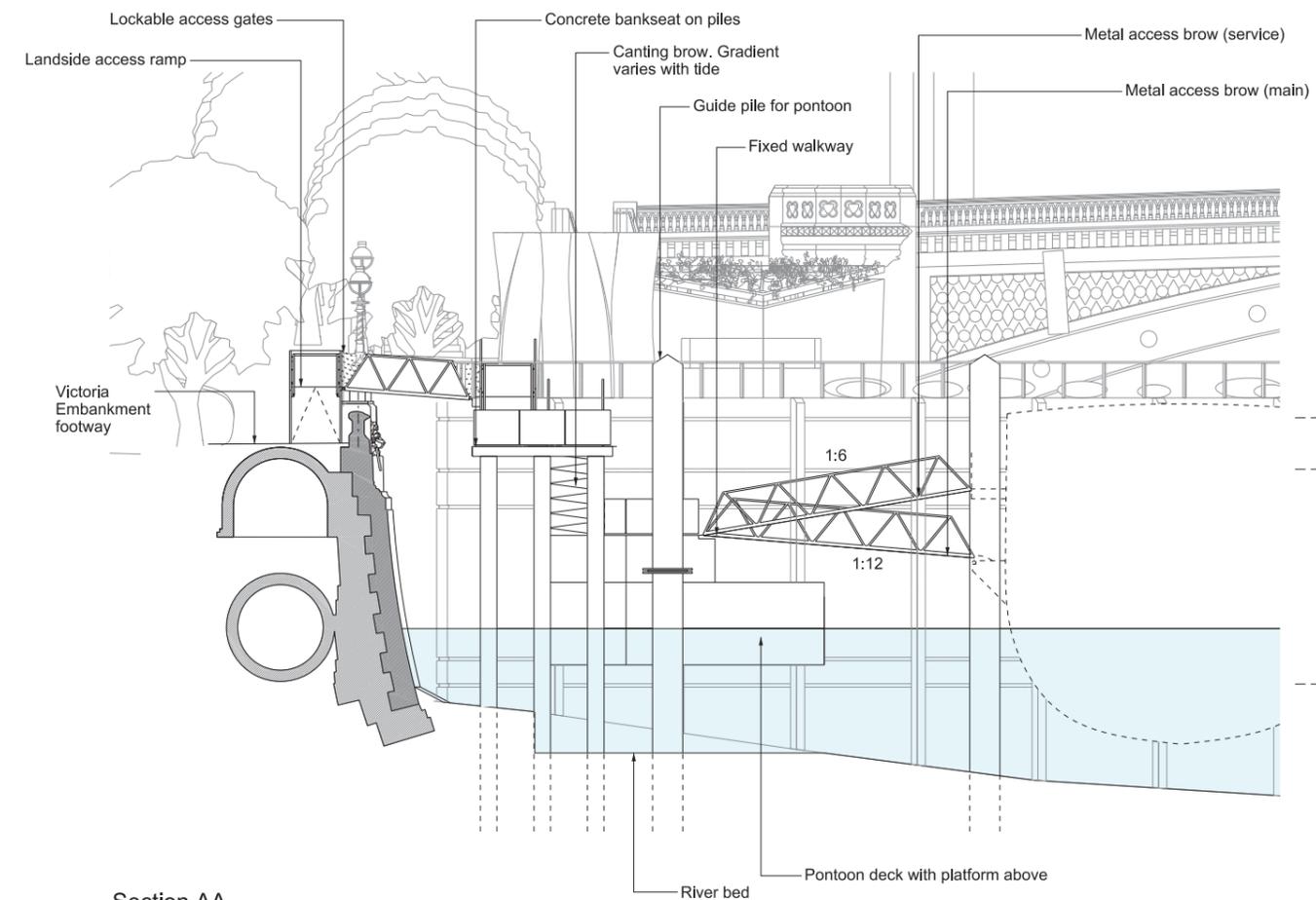


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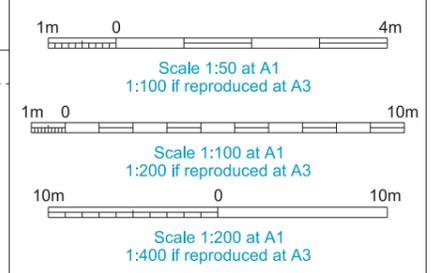
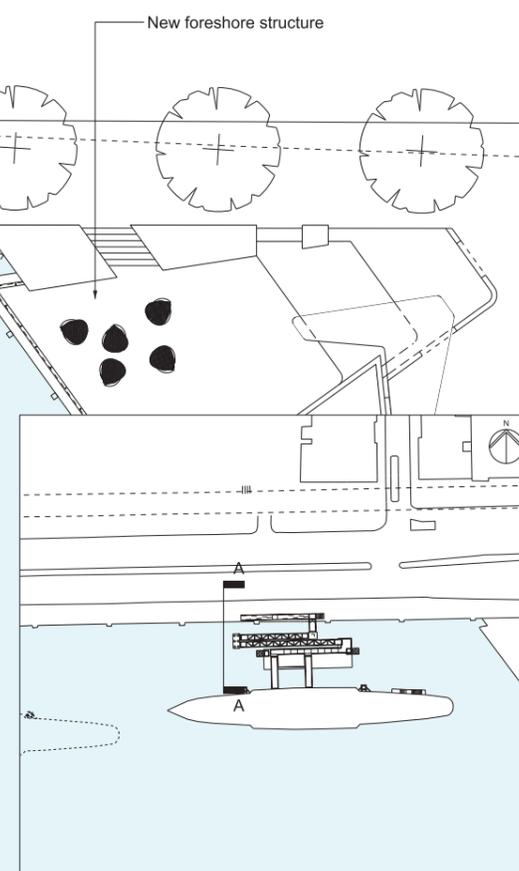
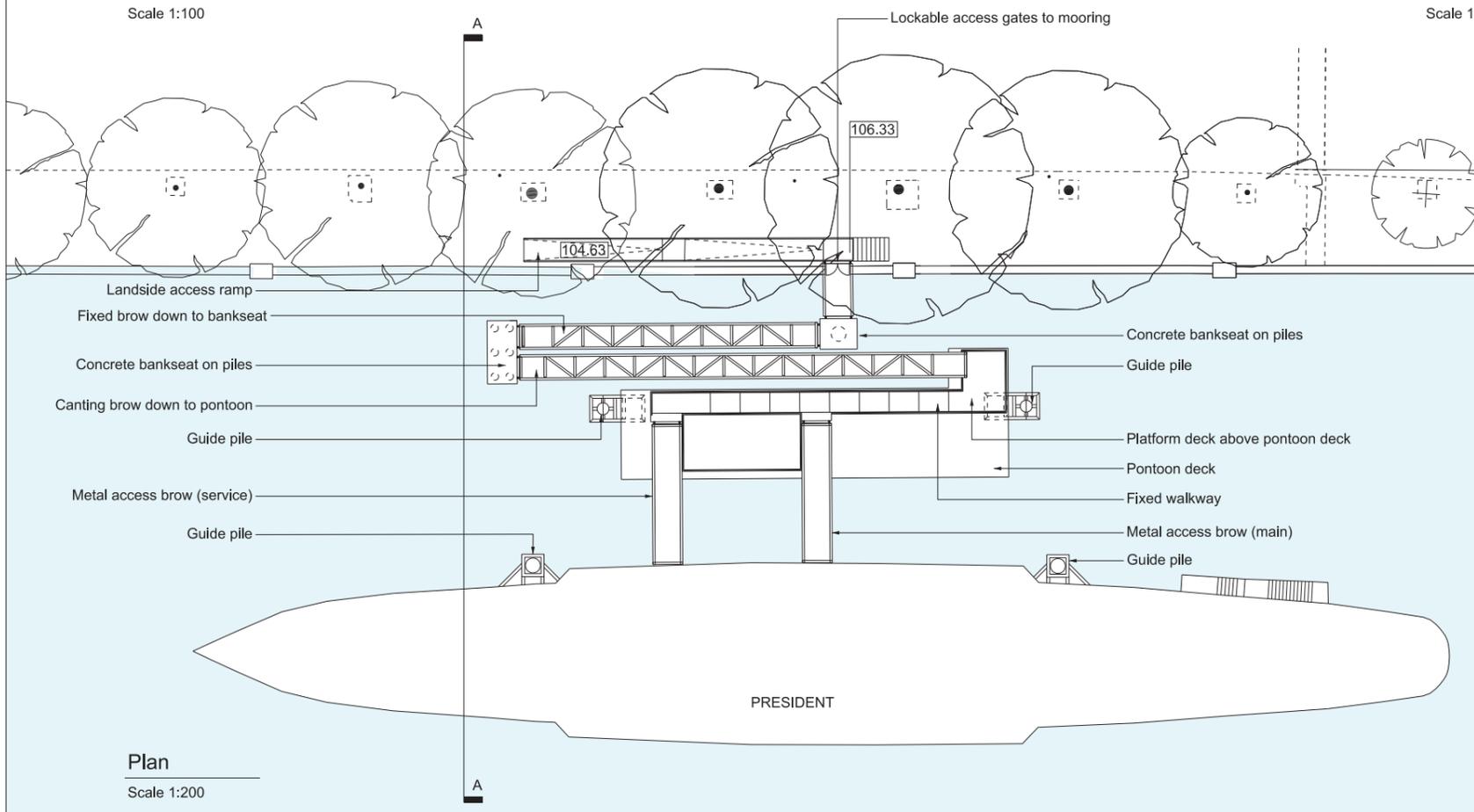


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:  
1. All dimensions and levels are approximate.



2020 flood defence level 105.41m ATD  
Mean high water springs 103.85m ATD  
Mean low water springs 97.35m ATD



**ILLUSTRATIVE**  
Save for the detail of spanning the listed wall which is for approval

Location  
**Blackfriars Bridge Foreshore**  
City of London

Document Information  
**Application for Development Consent**  
Permanent president mooring access  
Plan and elevation  
Book of plans - section 19  
DCO-PP-17X-BLABF-190045  
January 2013



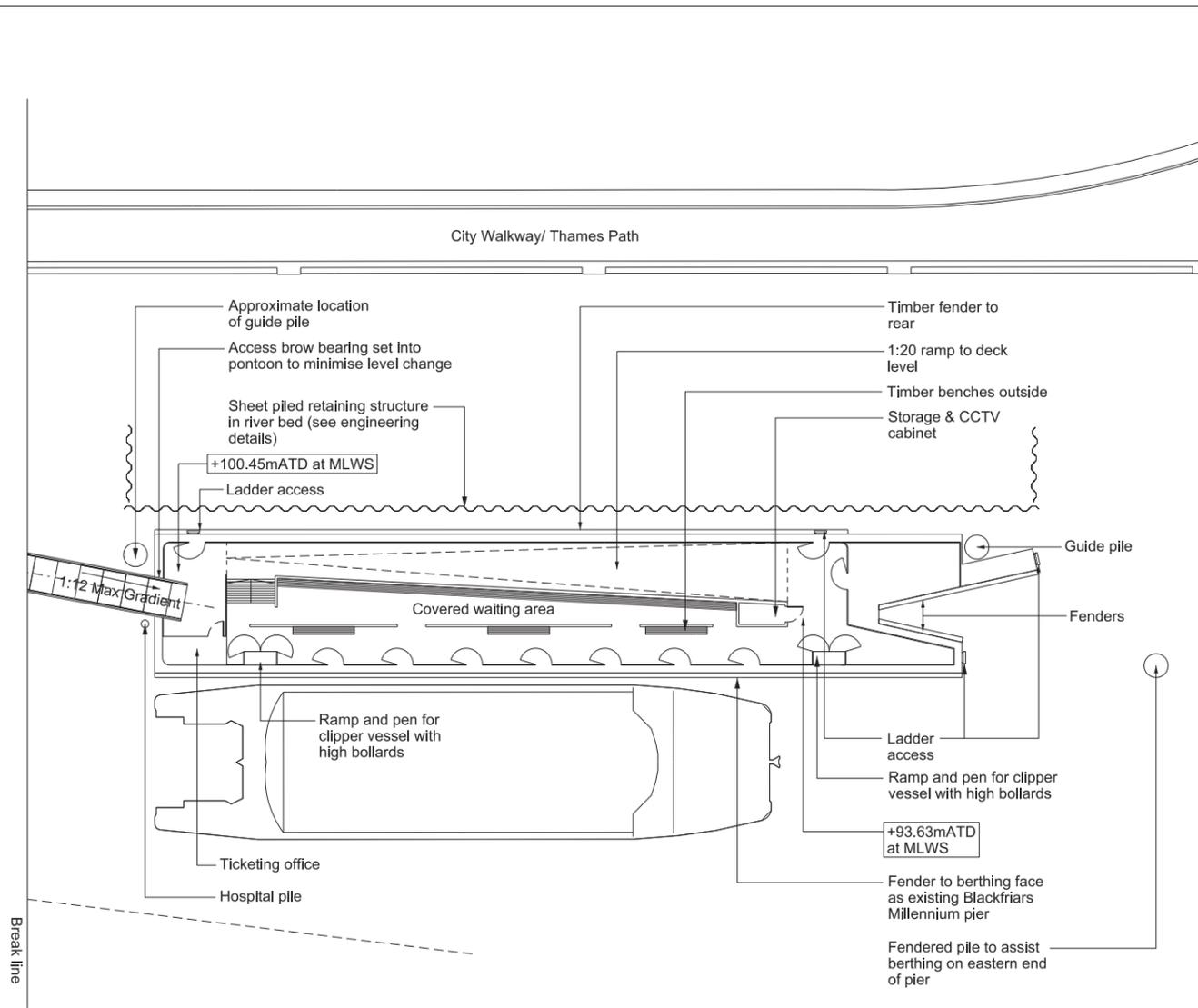
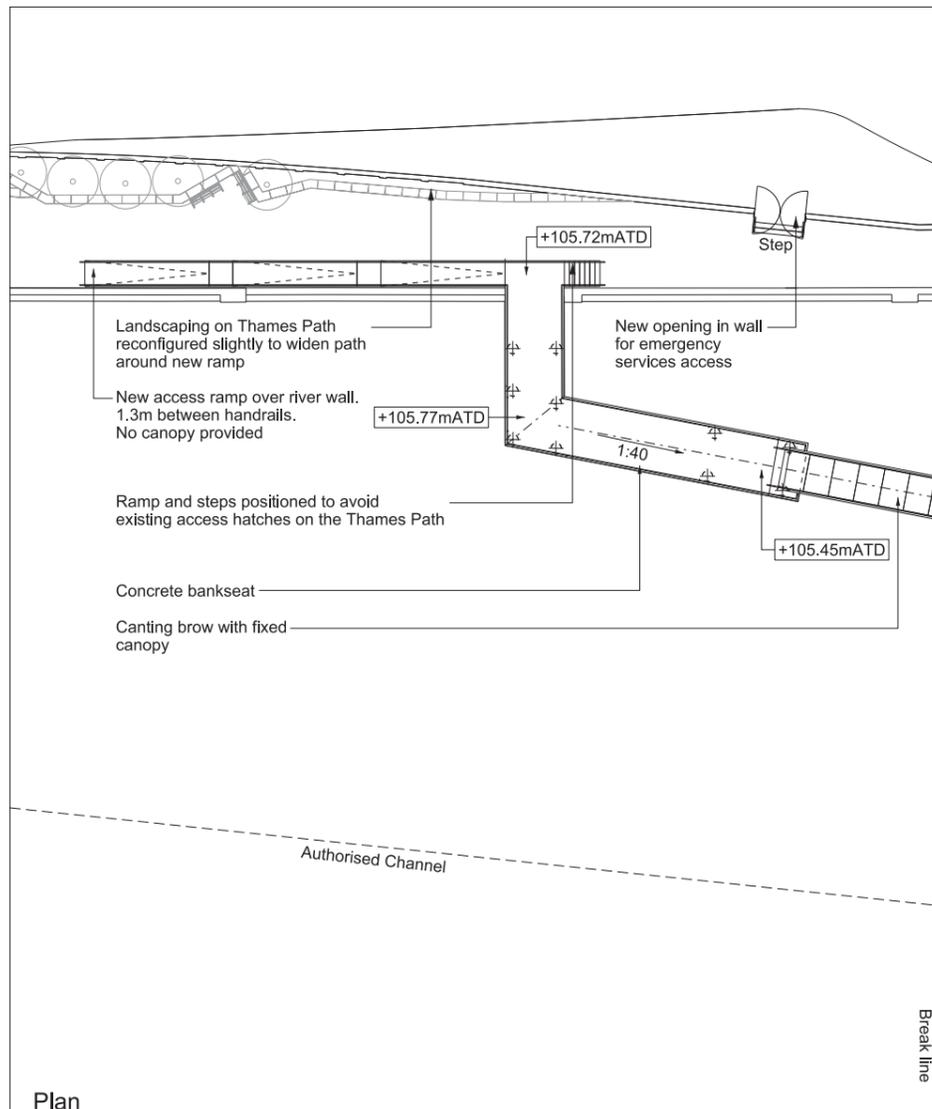
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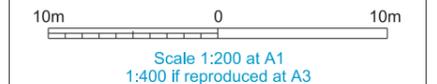
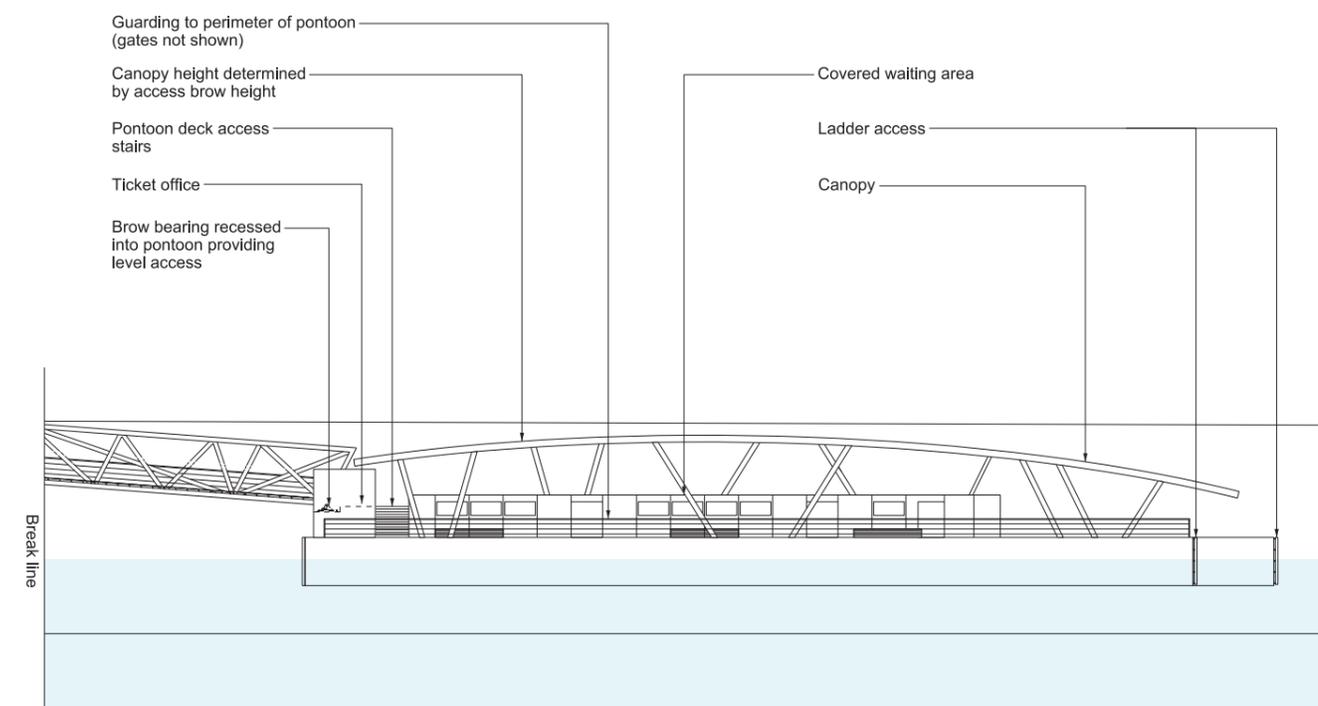
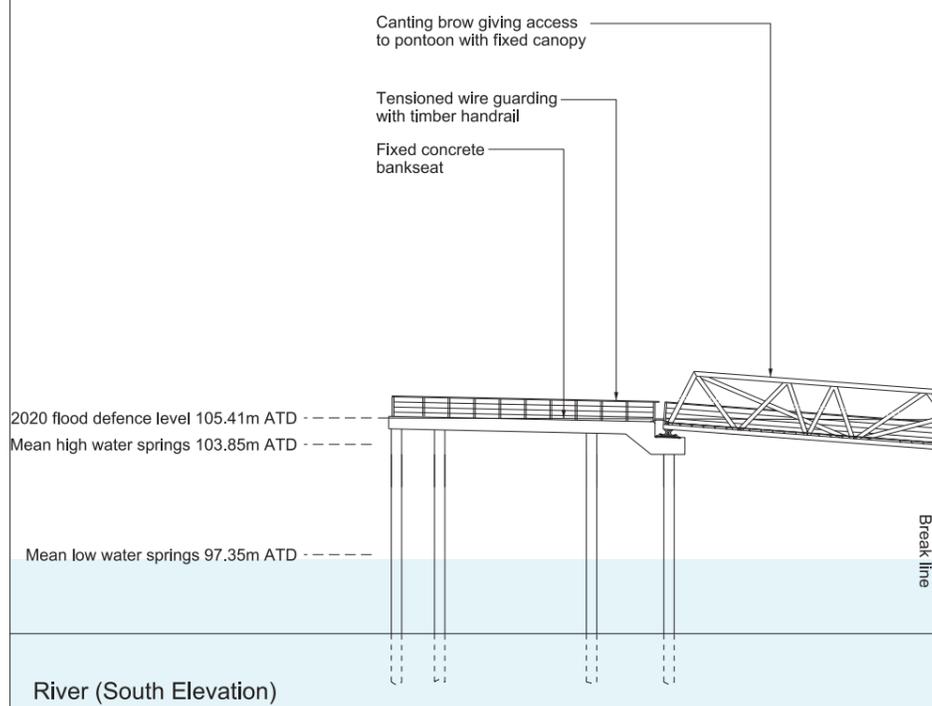
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Notes:**  
1. All dimensions and levels are approximate.  
2. The following are to be provided in agreement with TFL London River Services:

- a. Bird wire to the roof of pier and brow
- b. Nonslip surfaces on all decks and walkways
- c. Grab chains on the water line
- d. Navigation lights masts with counter - balanced mast or winch to change bulbs easily
- e. CCTV Cameras covering all areas of the pier, brows and entrance with 1 pan and tilt camera on the berth front
- f. Poster frames for safety and passenger information
- g. Fire and fresh water hoses
- h. Flag poles and banner poles and TFL designed gate entrances
- j. Electronic real time signs
- k. Utilities: Lighting, electricity, water, telephone (PSTN), CCTV to the pontoon.



Plan

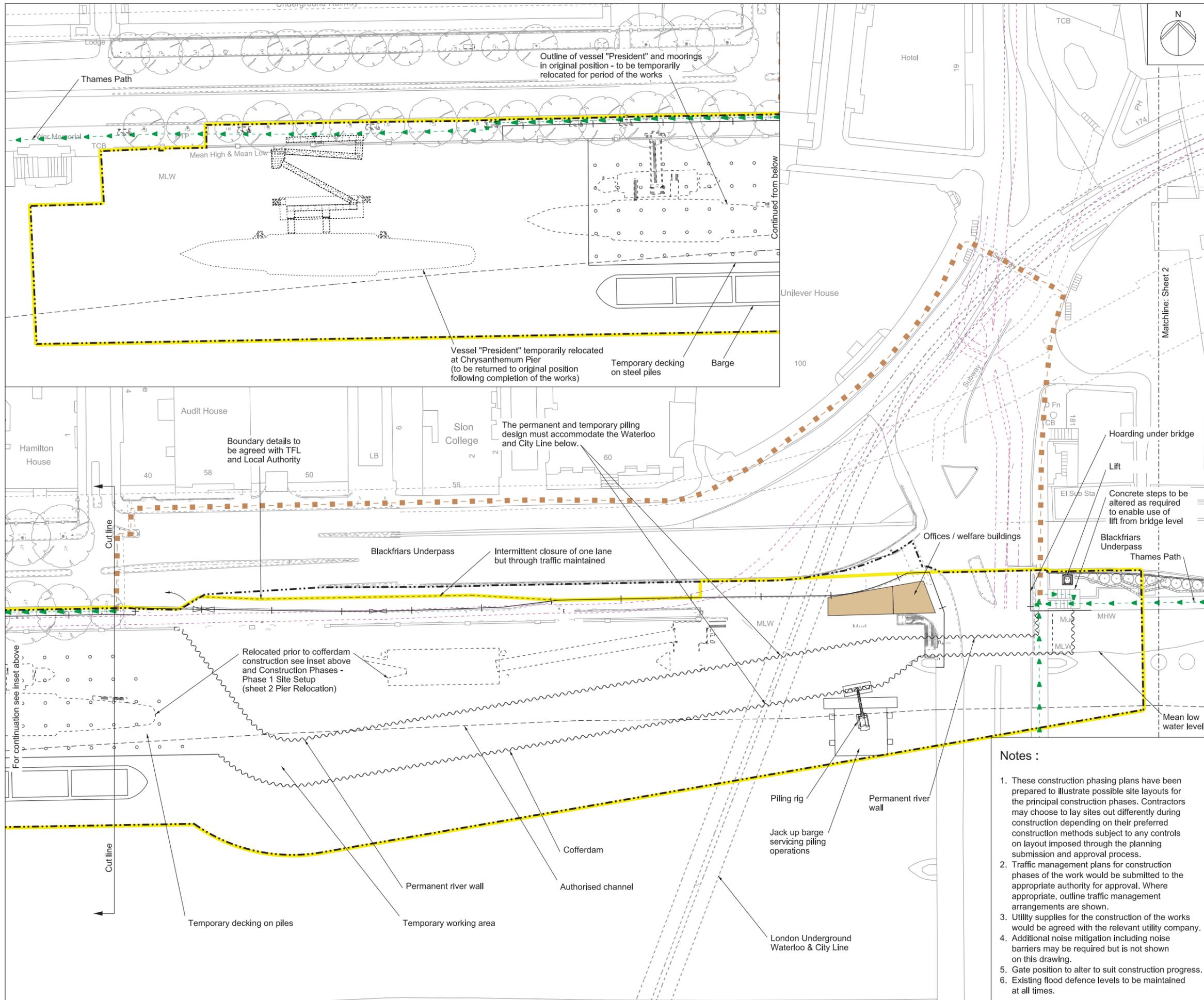


**ILLUSTRATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Pontoon relocated  
Blackfriars Pier  
Book of plans - section 19  
DCO-PP-17X-BLAF-190046  
January 2013



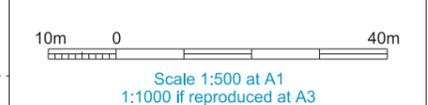
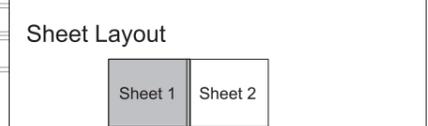


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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



## ILLUSTRATIVE

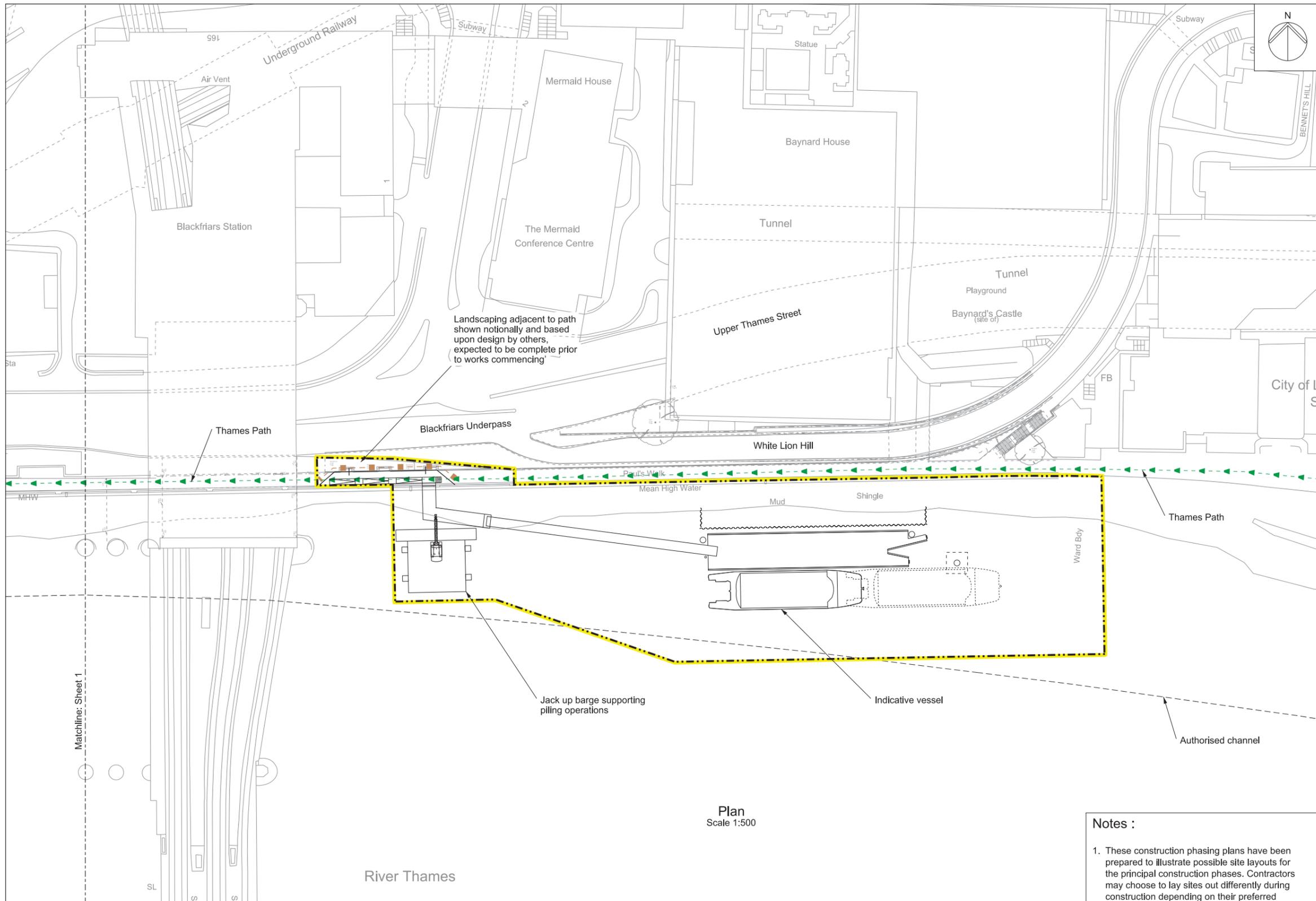
**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent

Construction phases - phase 1  
Site setup sheet 1 of 2 - main works  
Book of plans - section 19  
DCO-PP-17X-BLAF-190047  
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.
  5. Gate position to alter to suit construction progress.
  6. Existing flood defence levels to be maintained at all times.

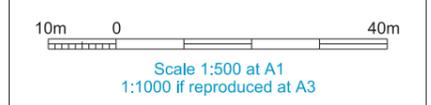
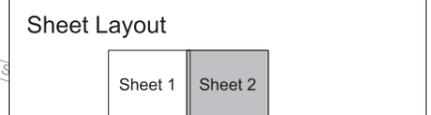


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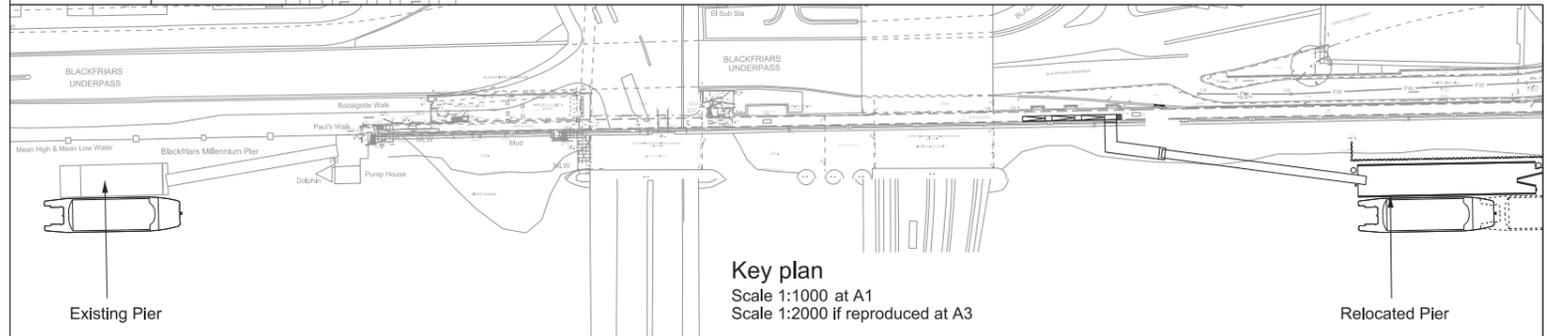


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:
- Limits of land to be acquired or used (LLAU)
  - Hoarding
  - Maximum extent of working area
  - Existing public right of way
  - Route of temporary diversion of right of way
  - Existing sewers



Plan  
Scale 1:500



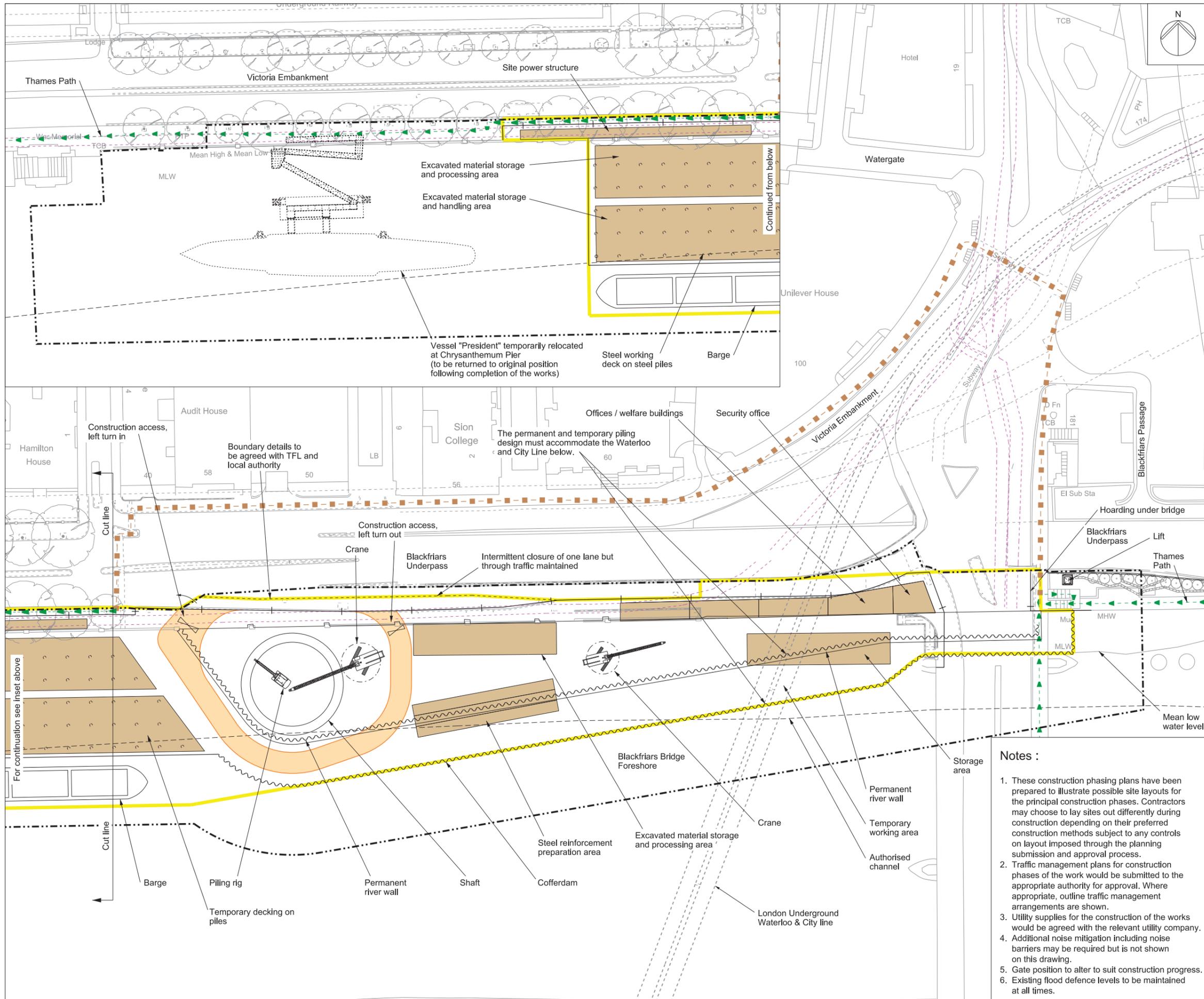
- Notes :
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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.
  5. Gate position to alter to suit construction progress.
  6. Existing flood defence levels to be maintained at all times.

**ILLUSTRATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Construction phases - phase 1  
Site setup sheet 2 of 2 - pier relocation  
Book of plans - section 19  
DCO-PP-17X-BLAF-190048  
January 2013



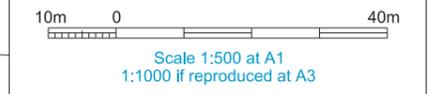


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:
- Limits of land to be acquired or used (LLAU)
  - 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
  - Sheet piles



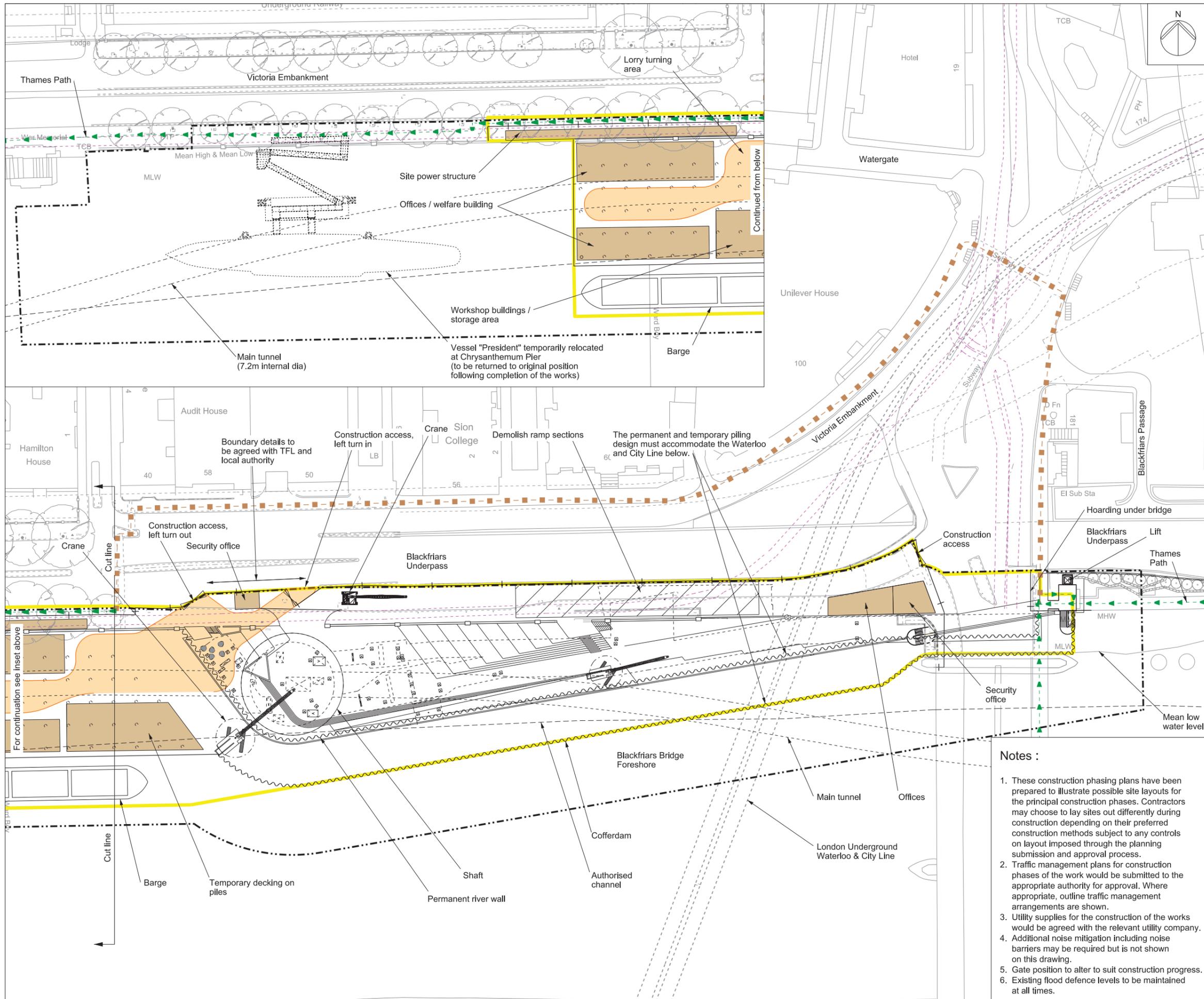
## ILLUSTRATIVE

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 2  
 Shaft construction  
 Book of plans - section 19  
 DCO-PP-17X-BLAF-190049  
 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.
  5. Gate position to alter to suit construction progress.
  6. Existing flood defence levels to be maintained at all times.

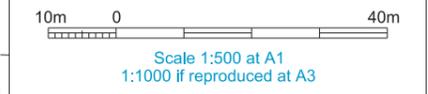


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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



## ILLUSTRATIVE

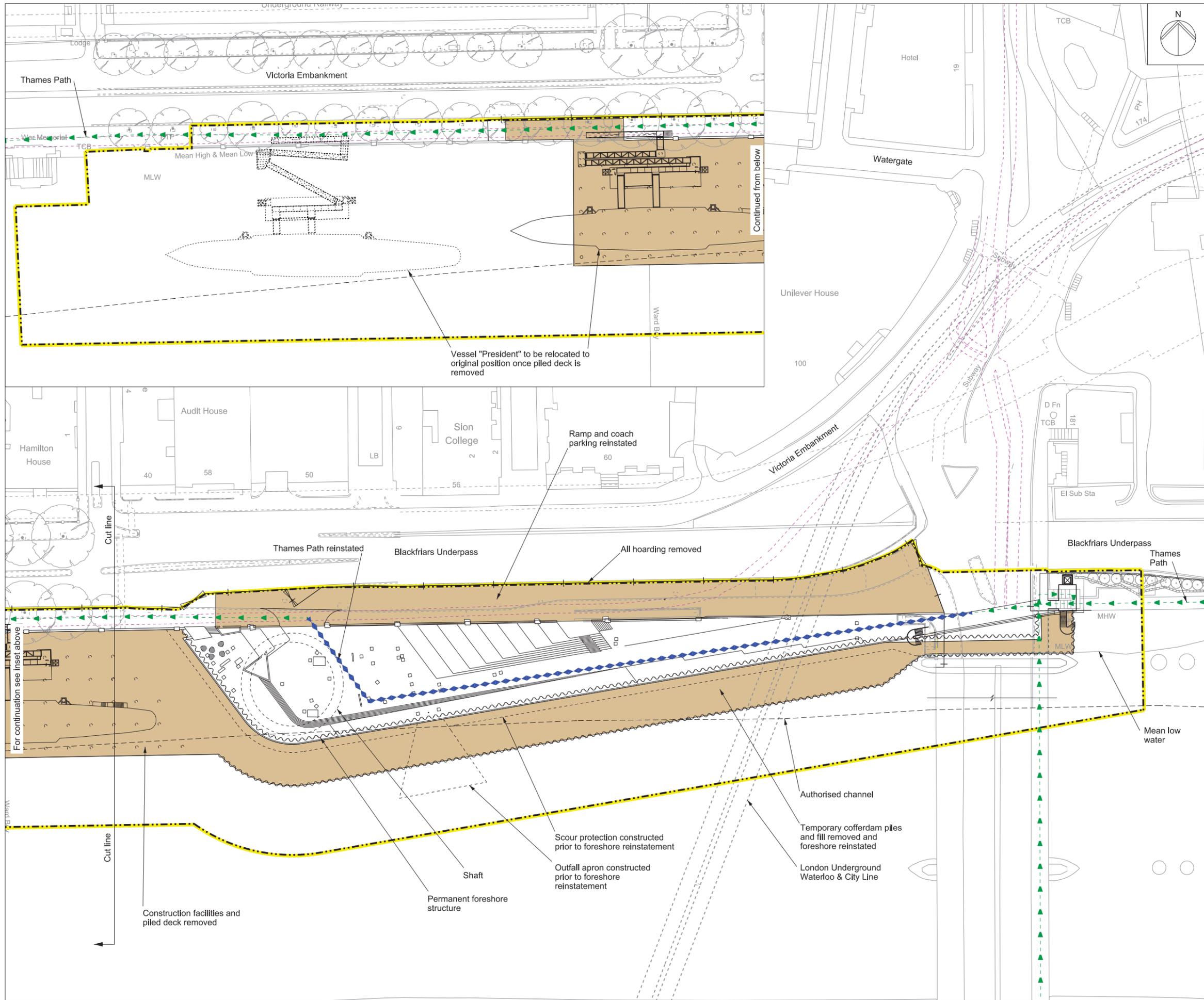
**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Application for Development Consent**

Construction phases - phase 3  
 Construction of other structures  
 Book of plans - section 19  
 DCO-PP-17X-BLABF-190050  
 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.
  5. Gate position to alter to suit construction progress.
  6. Existing flood defence levels to be maintained at all times.

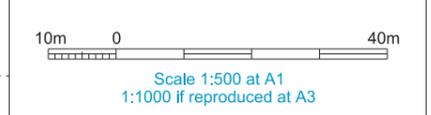


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:
- Limits of land to be acquired or used (LLAU)
  - Hoarding
  - Maximum extent of working area
  - Existing public right of way
  - Site access
  - Existing sewers
  - Sheet piles
  - Provision of permanent permissive right of way

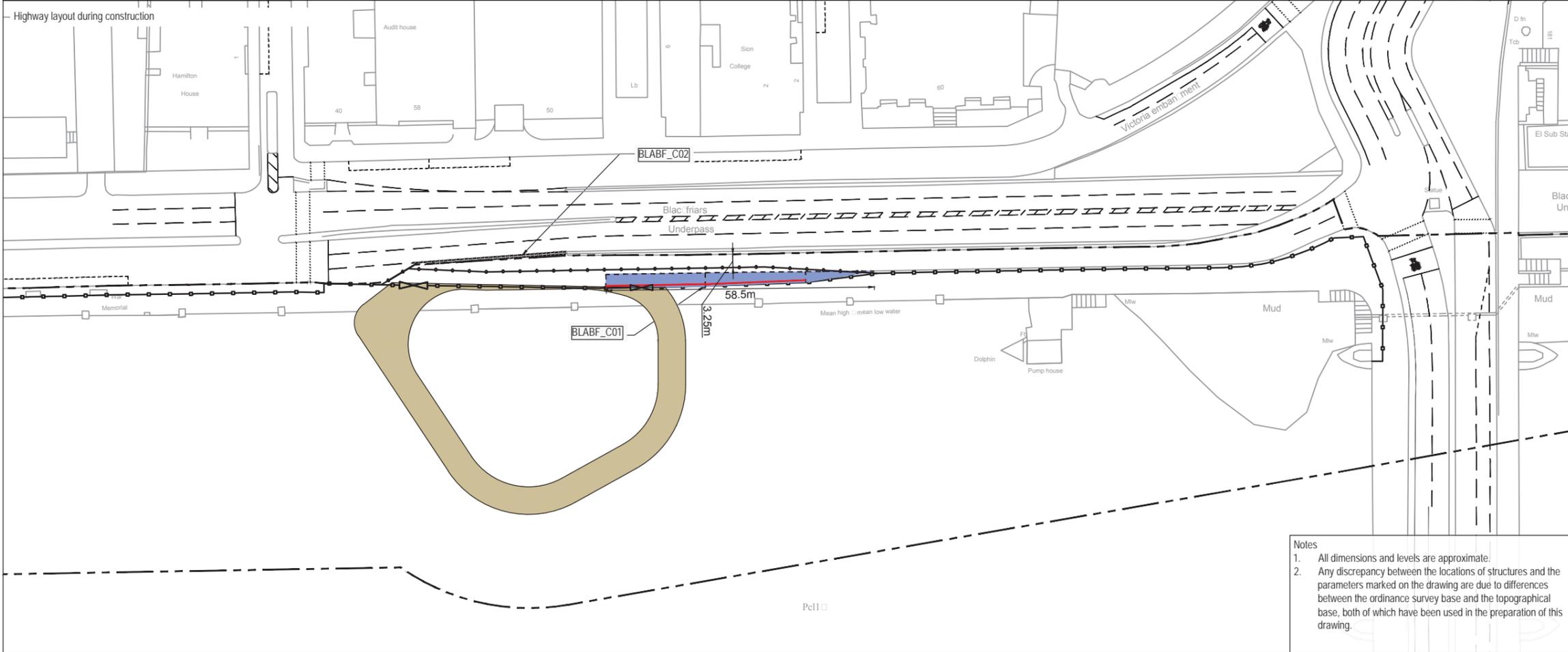
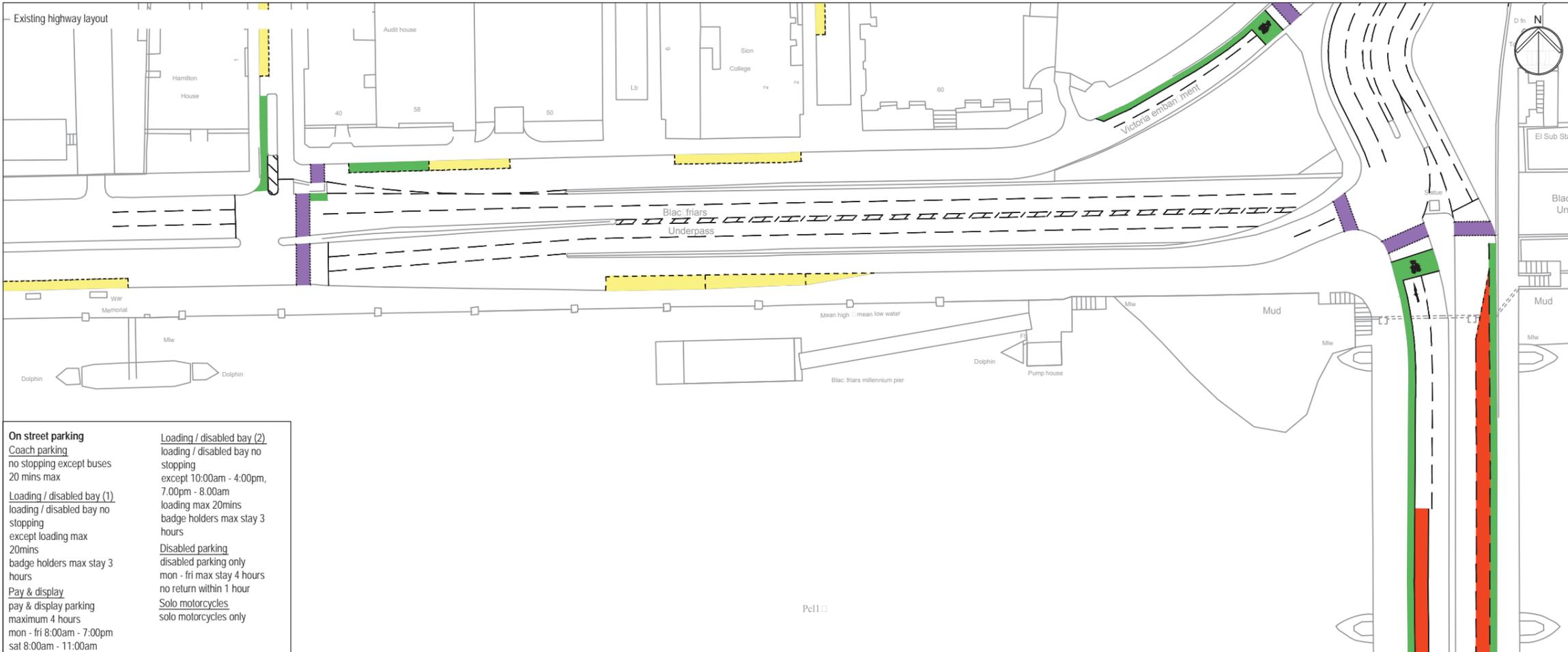


**ILLUSTRATIVE**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Application for Development Consent  
Construction phases - phase 4  
Site demobilisation  
Book of plans - section 19  
DCO-PP-17X-BLAF-190051  
January 2013





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**Keyplan:** This drawing

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 lane
- Pedestrian crossing
- Cycle lane / advance stop line

**Revised**

- Suspended on street parking
- Illustrative on-site manoeuvring zone
- See schedule of works
- Hoarding line
- Site access
- Traffic barrier

**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 phase

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

**ILLUSTRATIVE**

**Location**  
Blackfriars Foreshore  
City of London Corporation

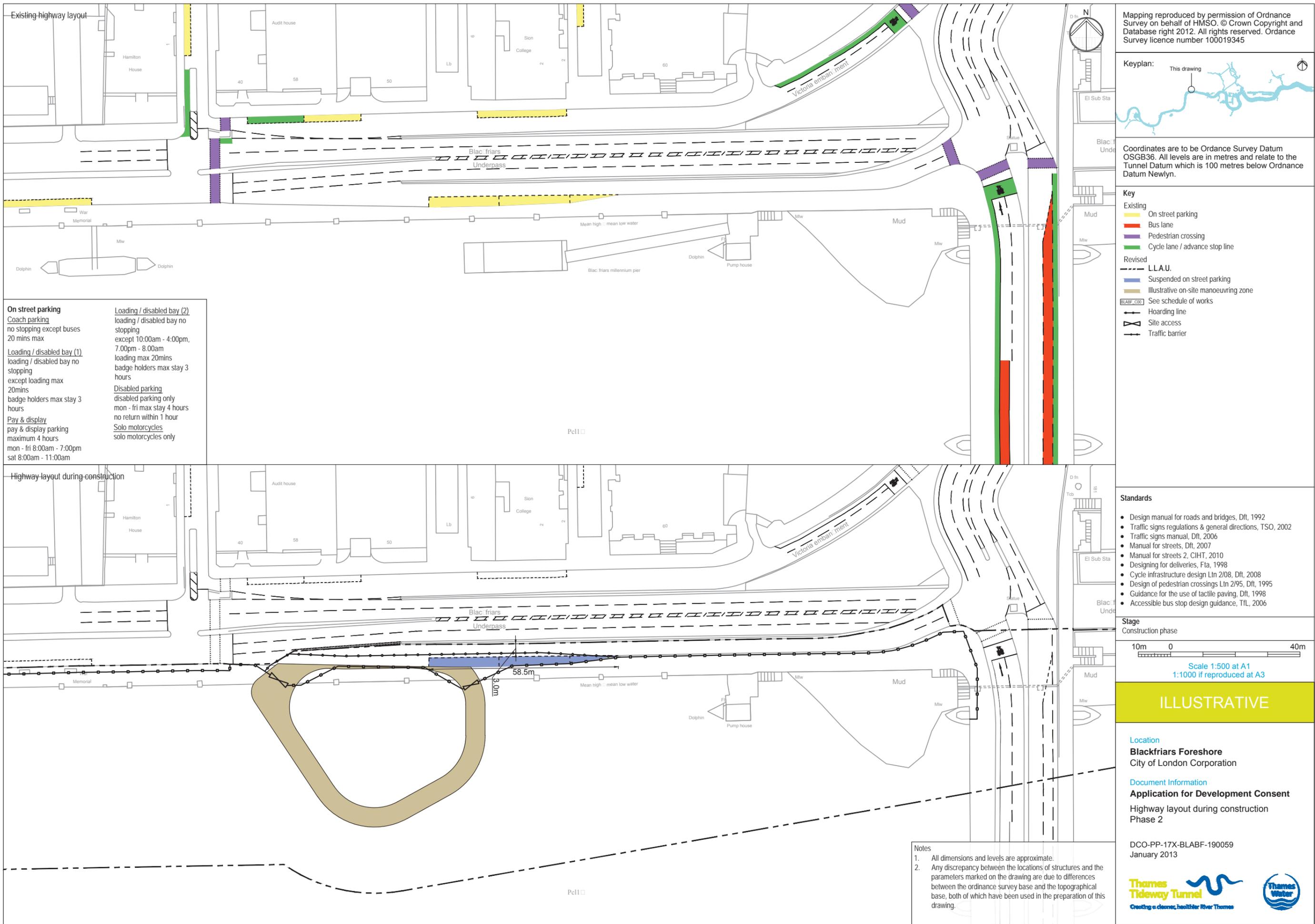
**Document Information**  
Application for Development Consent  
Highway layout during construction  
Phase 1

DCO-PP-17X-BLABF-190058  
January 2013

**Notes**

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- Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.

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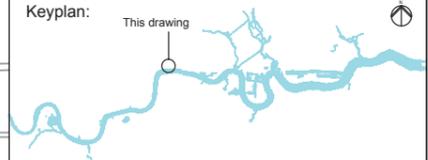
Existing highway layout

**On street parking**  
Coach parking  
 no stopping except buses  
 20 mins max  
Loading / disabled bay (1)  
 loading / disabled bay no  
 stopping  
 except loading max  
 20mins  
 badge holders max stay 3  
 hours  
Pay & display  
 pay & display parking  
 maximum 4 hours  
 mon - fri 8:00am - 7:00pm  
 sat 8:00am - 11:00am

Loading / disabled bay (2)  
 loading / disabled bay no  
 stopping  
 except 10:00am - 4:00pm,  
 7:00pm - 8:00am  
 loading max 20mins  
 badge holders max stay 3  
 hours  
Disabled parking  
 disabled parking only  
 mon - fri max stay 4 hours  
 no return within 1 hour  
Solo motorcycles  
 solo motorcycles only

Highway layout during construction

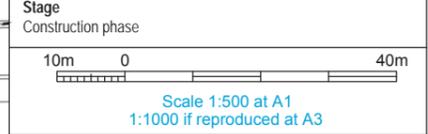
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing**
- On street parking
  - Bus lane
  - Pedestrian crossing
  - Cycle lane / advance stop line
- Revised**
- L.L.A.U.
  - Suspended on street parking
  - Illustrative on-site manoeuvring zone
  - See schedule of works
  - Hoarding line
  - Site access
  - Traffic barrier

- 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



**ILLUSTRATIVE**

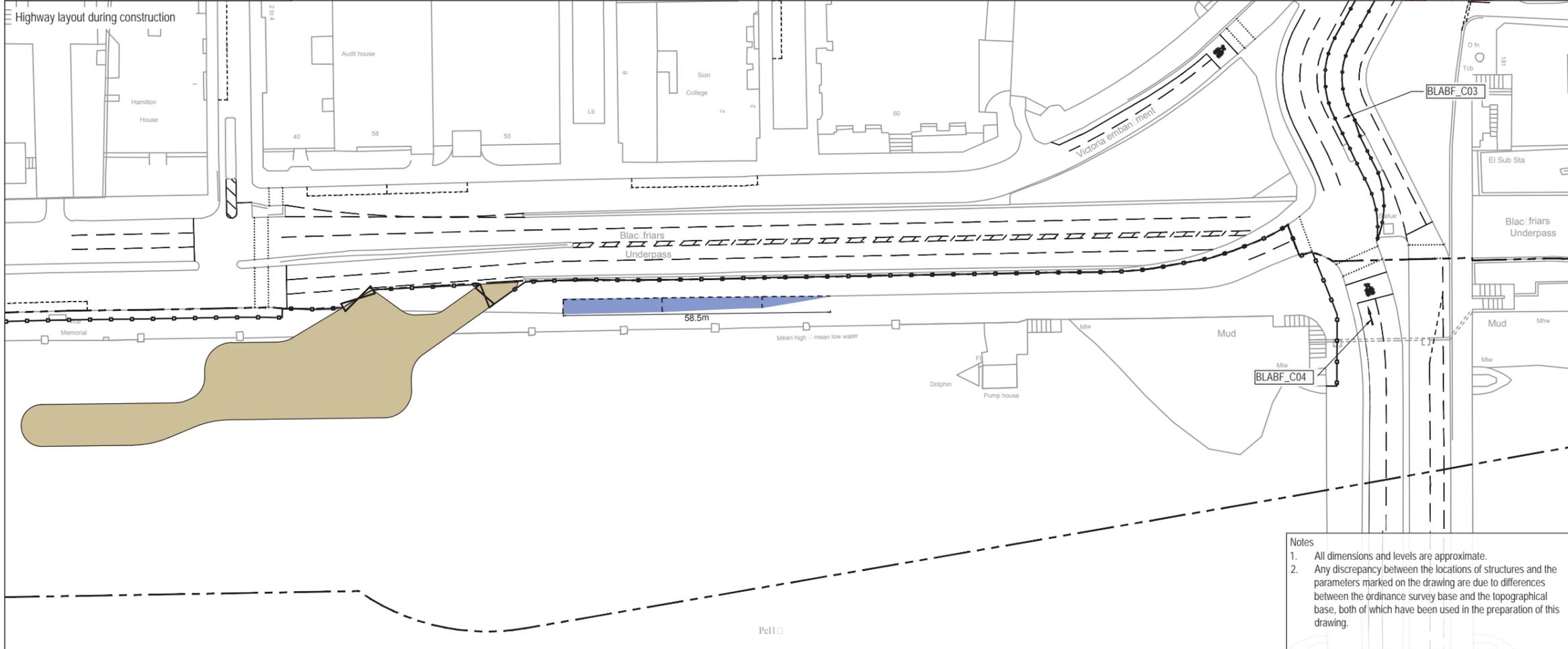
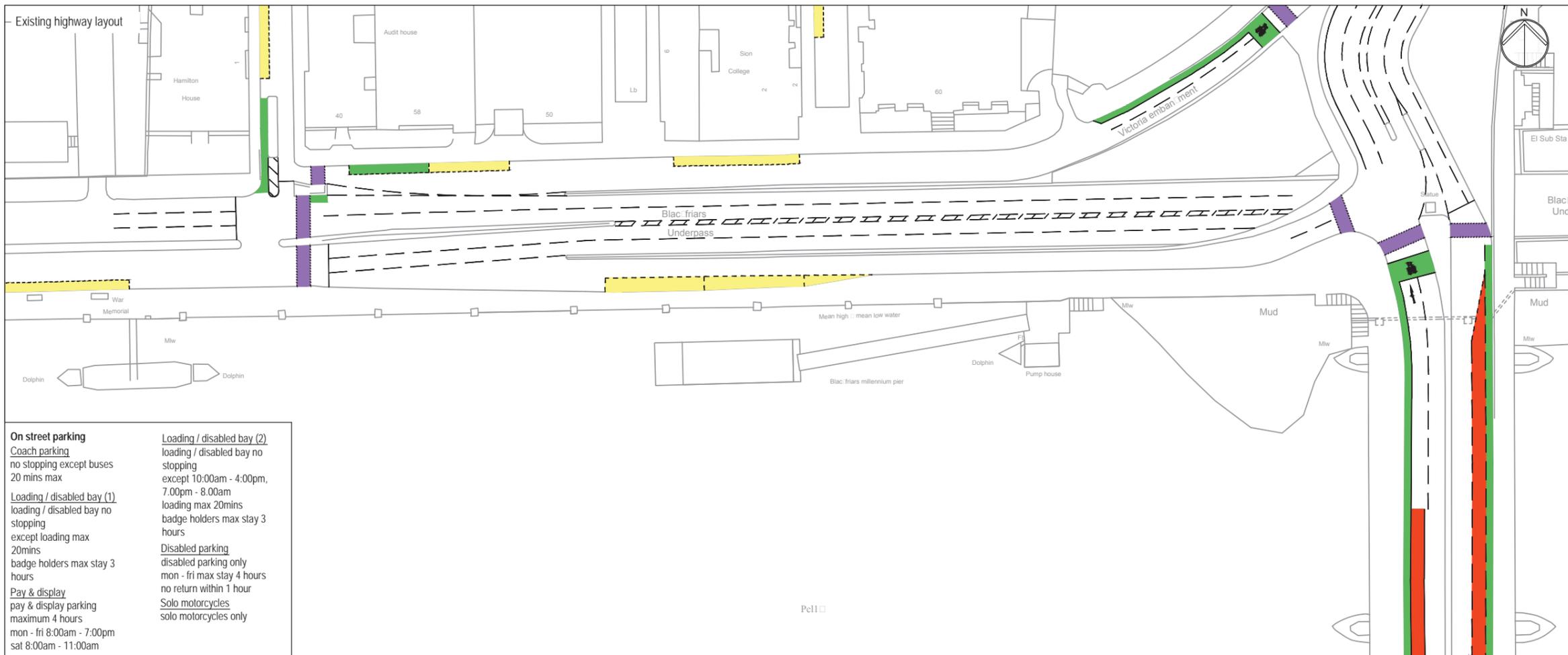
**Location**  
 Blackfriars Foreshore  
 City of London Corporation

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

DCO-PP-17X-BLAF-190059  
 January 2013

**Notes**

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



**On street parking**  
**Coach parking**  
 no stopping except buses  
 20 mins max

**Loading / disabled bay (1)**  
 loading / disabled bay no stopping  
 except loading max 20mins  
 badge holders max stay 3 hours

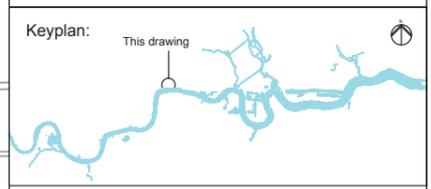
**Pay & display**  
 pay & display parking  
 maximum 4 hours  
 mon - fri 8:00am - 7:00pm  
 sat 8:00am - 11:00am

**Loading / disabled bay (2)**  
 loading / disabled bay no stopping  
 except 10:00am - 4:00pm,  
 7:00pm - 8:00am  
 loading max 20mins  
 badge holders max stay 3 hours

**Disabled parking**  
 disabled parking only  
 mon - fri max stay 4 hours  
 no return within 1 hour

**Solo motorcycles**  
 solo motorcycles only

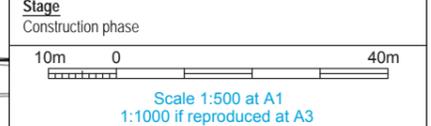
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing**
- On street parking
  - Bus stop / stand
  - Bus lane
  - Pedestrian crossing
  - Cycle lane / advance stop line
- Revised**
- L.L.A.U.
  - Removal of footway / central reserve / pedestrian refuge
  - Suspended on street parking
  - Illustrative on-site manoeuvring zone
- See schedule of works
- Hoarding line
  - Site access
  - Traffic barrier

- 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



ILLUSTRATIVE

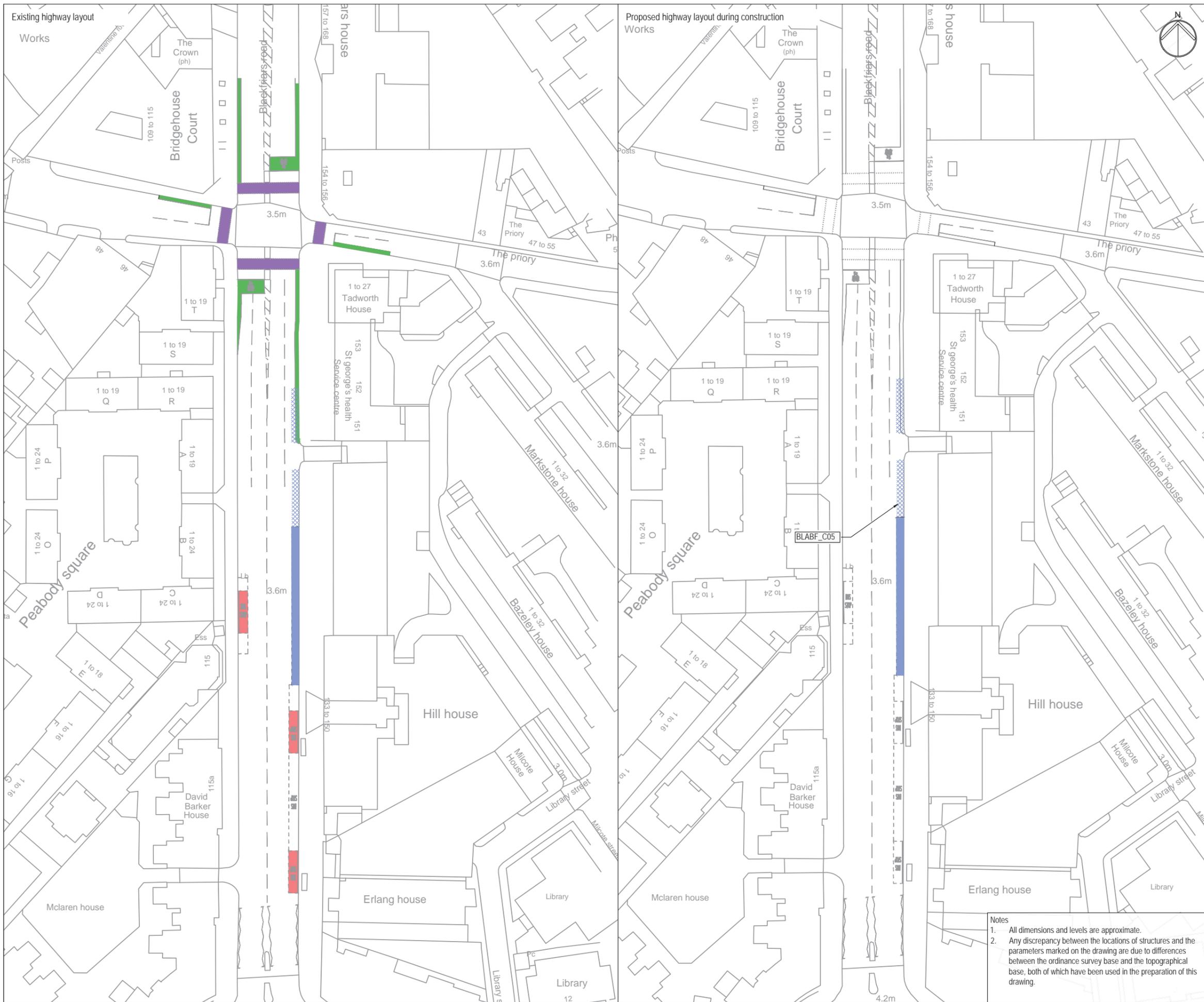
**Location**  
**Blackfriars Foreshore**  
 City of London Corporation

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

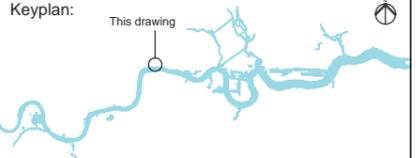
DCO-PP-17X-BLAF-190060  
 January 2013

**Notes**

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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**
- Bus stop / stand
  - Pedestrian crossing
  - Cycle lane / advance stop line
- Revised**
- Proposed on-street parking bay ( coach parking only)
  - See schedule of works
  - TFL Proposed on-street parking bay ( coach parking 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, 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 phase

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

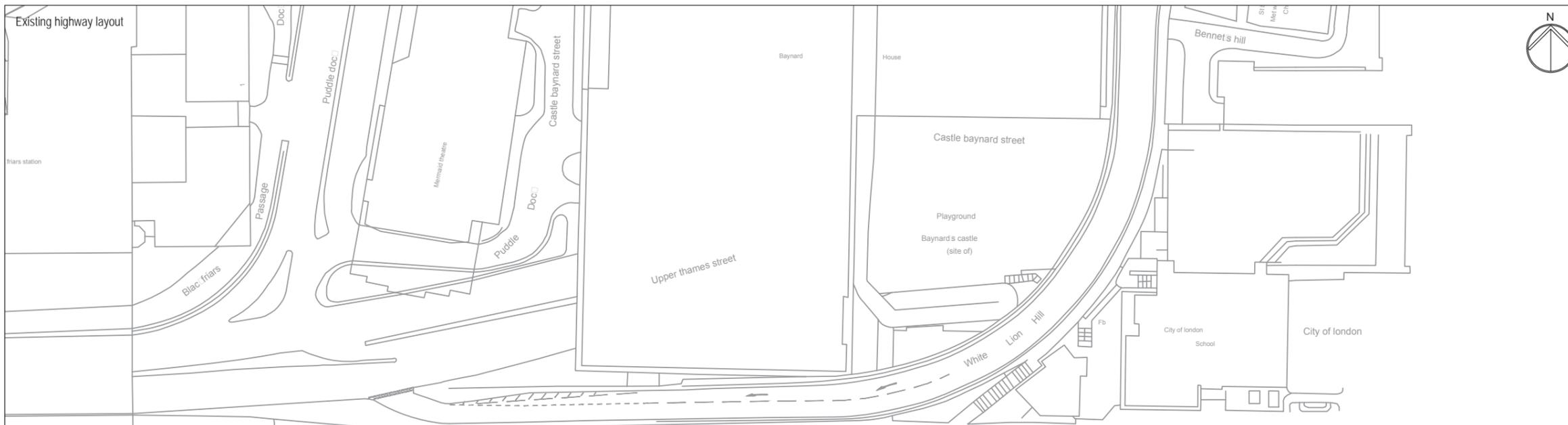
ILLUSTRATIVE

**Location**  
**Blackfriars Foreshore**  
City of London Corporation

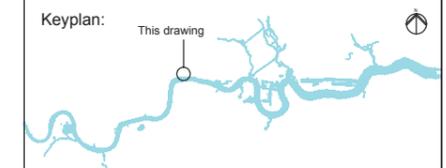
**Document Information**  
**Application for Development Consent**  
Illustrative highway layout during  
Construction -temporary coach bays  
LB Southwark  
DCO-PP-17X-BLABF-190061  
January 2013



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



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

- Key**
- Revised
  - L.L.A.U.
  - █ Removal of footway / central reserve / pedestrian refuge
  - ▒ On-street parking bay (loading only)
  - ▒ New footway
  - ▒ See schedule of works
  - ▒ Hoarding line

**On street parking**

Loading / disabled bay (1)  
loading / disabled bay no stopping  
except loading max 20mins  
badge holders max stay 3 hours

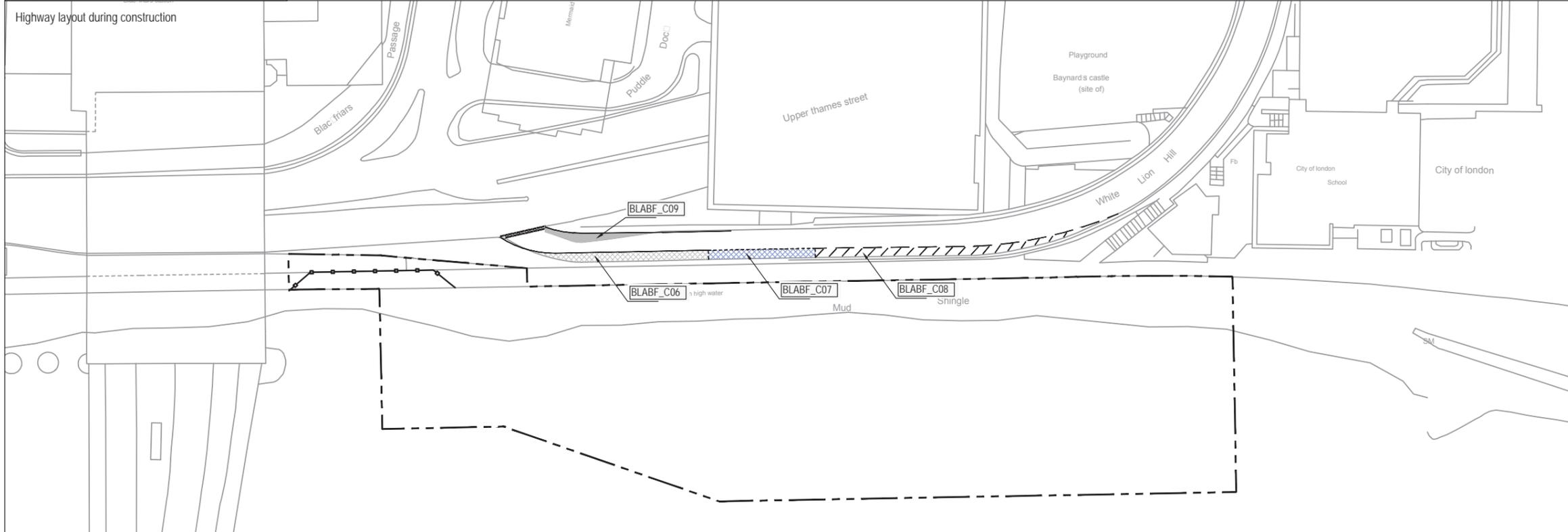
Loading / disabled bay (2)  
loading / disabled bay no stopping  
except 10:00am - 4:00pm, 7:00pm - 8:00am  
loading max 20mins  
badge holders max stay 3 hours

Coach parking  
no stopping except buses  
20 mins max

Pay & display  
pay & display parking maximum 4 hours  
mon - fri 8:00am - 7:00pm  
sat 8:00am - 11:00am

Solo motorcycles  
solo motorcycles only

Disabled parking  
disabled parking only  
mon - fri max stay 4 hours  
no return within 1 hour



- 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 / permanent

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

**ILLUSTRATIVE**

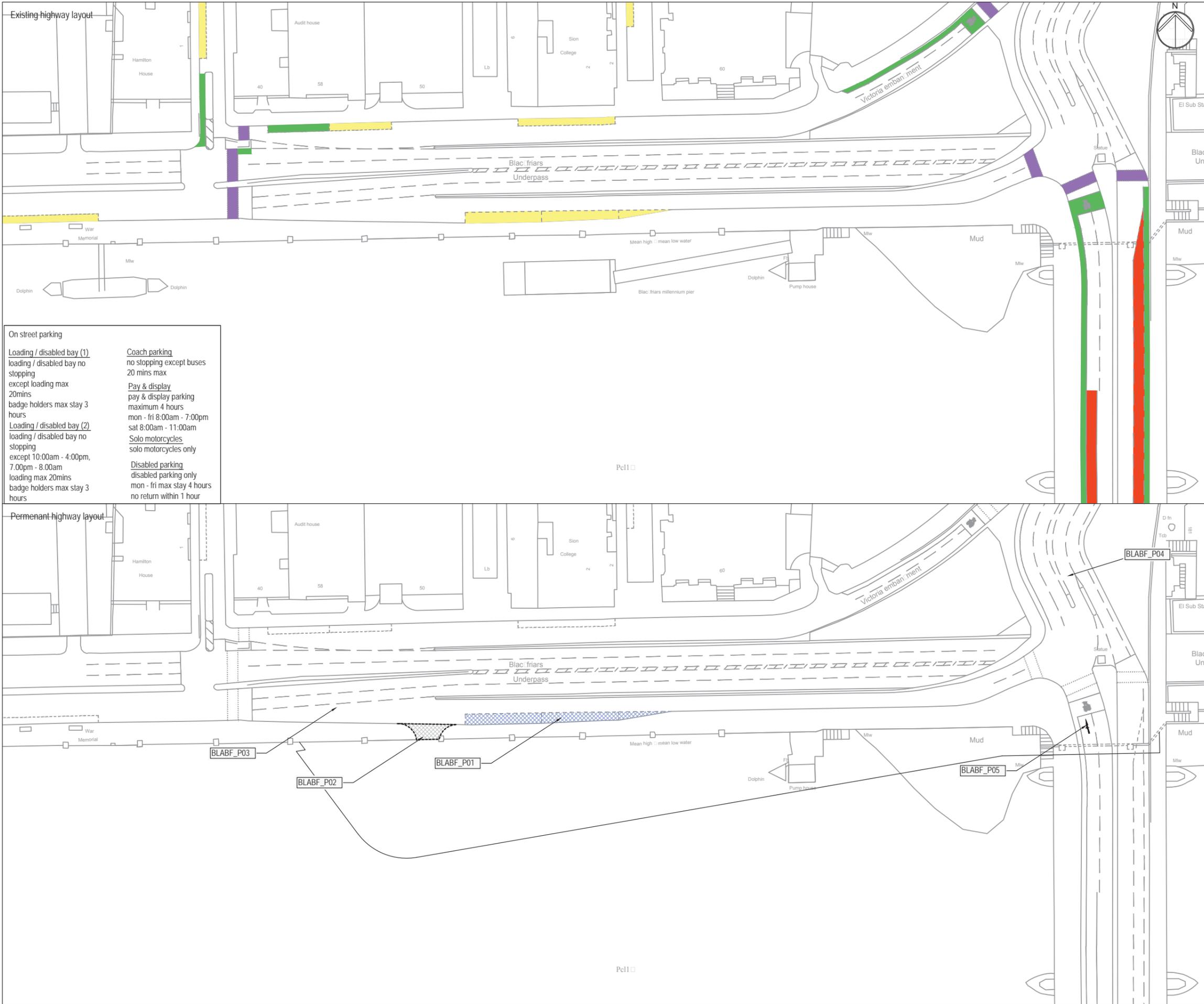
**Location**  
Blackfriars Foreshore  
City of London Corporation

**Document Information**  
**Application for Development Consent**  
Illustrative highway layout during  
Construction - loading bay relocation

DCO-PP-17X-BLABF-190062  
January 2013

**Notes**

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**Keyplan:** This drawing

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 lane
- Pedestrian crossing
- Cycle lane / advance stop line

**Revised**

- Reinstated footway
- Reinstated on street parking
- See schedule of works

**On street parking**

<p><u>Loading / disabled bay (1)</u> loading / disabled bay no stopping except loading max 20mins badge holders max stay 3 hours</p> <p><u>Loading / disabled bay (2)</u> loading / disabled bay no stopping except 10:00am - 4:00pm, 7:00pm - 8:00am loading max 20mins badge holders max stay 3 hours</p>	<p><u>Coach parking</u> no stopping except buses 20 mins max</p> <p><u>Pay &amp; display</u> pay &amp; display parking maximum 4 hours mon - fri 8:00am - 7:00pm sat 8:00am - 11:00am</p> <p><u>Solo motorcycles</u> solo motorcycles only</p> <p><u>Disabled parking</u> disabled parking only mon - fri max stay 4 hours no return within 1 hour</p>
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**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 phase

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

**ILLUSTRATIVE**

**Location**  
Blackfriars Foreshore  
City of London Corporation

**Document Information**  
Application for Development Consent  
Permanent highway layout

DCO-PP-17X-BLABF-190063  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames

Thames Water

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### **Thames Water Utilities Limited**

Clearwater Court, Vastern Road, Reading RG1 8DB

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