

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: **2.18**

Victoria Embankment Foreshore

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

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

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

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Application for Development Consent: Book of Plans

List of Volumes

Box	Folder/Volume	Section	Location	Drawing type or site location
61	1	1	Project-wide drawings	Works plan and sections
		2	Project-wide drawings	Land acquisition plans
		3	Project-wide drawings	Land plans
		4	Project-wide drawings	Crown and special category land plans
	2	5	Site drawings	Acton Storm Tanks
		6	Site drawings	Hammersmith Pumping Station
		7	Site drawings	Barn Elms
		8	Site drawings	Putney Embankment Foreshore
		9	Site drawings	Carnwath Road Riverside
	3	10	Site drawings	Dormay Street
		11	Site drawings	King George's Park
		12	Site drawings	Falconbrook Pumping Station
		13	Site drawings	Cremorne Wharf Depot
		14	Site drawings	Chelsea Embankment Foreshore
		15	Site drawings	Kirtling Street
62	4	16	Site drawings	Heathwall Pumping Station
		17	Site drawings	Albert Embankment Foreshore
		18	Site drawings	Victoria Embankment Foreshore
		19	Site drawings	Blackfriars Bridge Foreshore
	5	20	Site drawings	Shad Thames Pumping Station
		21	Site drawings	Chambers Wharf
		22	Site drawings	Earl Pumping Station
		23	Site drawings	Deptford Church Street
	6	24	Site drawings	Greenwich Pumping Station
		25	Site drawings	King Edward Memorial Park Foreshore
		26	Site drawings	Bekesbourne Street
		27	Site drawings	Abbey Mills Pumping Station
		28	Site drawings	Beckton Sewage Treatment Works.
		29	Project-wide drawings	Ventilation columns

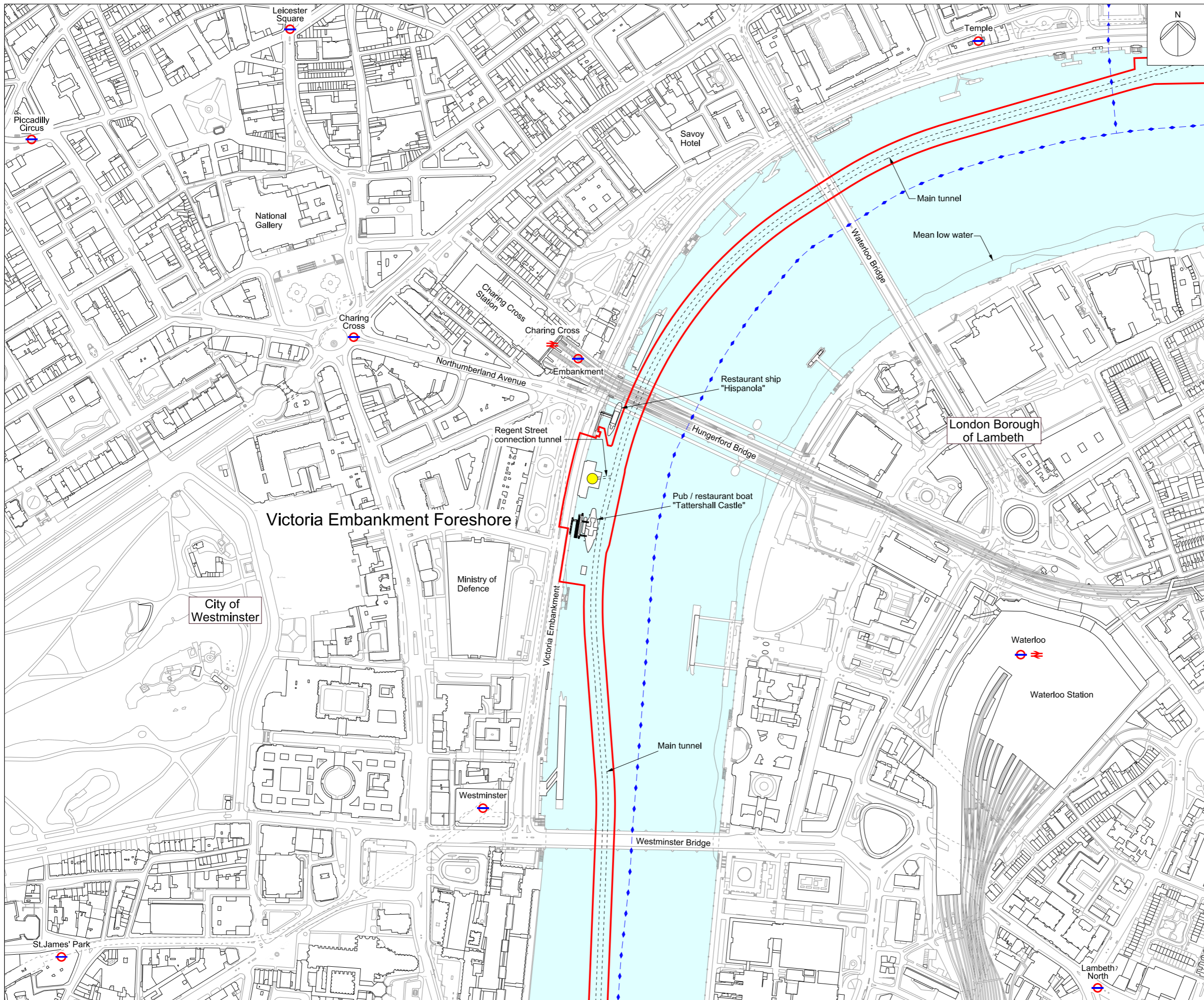
This volume is Volume 4

Volume 4

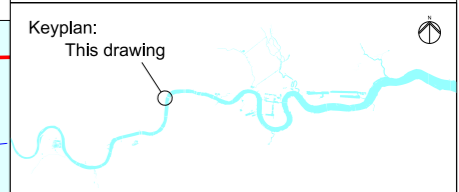
Drawing Title	Sheet No.	Drawing number
Section 18: Victoria Embankment Foreshore		
Location plan		DCO-PP-16X-VCTEF-180001
As existing site features plan		DCO-PP-16X-VCTEF-180002
As existing landscape plan	1 of 2	DCO-PP-16X-VCTEF-180003
As existing landscape plan	2 of 2	DCO-PP-16X-VCTEF-180004
Access plan		DCO-PP-16X-VCTEF-180005
Demolition and site clearance	1 of 2	DCO-PP-16X-VCTEF-180006
Demolition and site clearance	2 of 2	DCO-PP-16X-VCTEF-180007
Site works parameter plan		DCO-PP-16X-VCTEF-180008
Site works parameter key plan		DCO-PP-16X-VCTEF-180009
Permanent works layout		DCO-PP-16X-VCTEF-180010
Proposed site features plan		DCO-PP-16X-VCTEF-180011
Proposed landscape plan	1 of 2	DCO-PP-16X-VCTEF-180012
Proposed landscape plan	2 of 2	DCO-PP-16X-VCTEF-180013
Section AA		DCO-PP-16X-VCTEF-180014
As existing and proposed river elevation		DCO-PP-16X-VCTEF-180015
As existing and proposed detailed river elevation - impact on listed structure		DCO-PP-16X-VCTEF-180016
As existing and proposed south elevation		DCO-PP-16X-VCTEF-180017
As existing and proposed detailed south elevation		DCO-PP-16X-VCTEF-180018
As existing and proposed west elevation		DCO-PP-16X-VCTEF-180019
As existing and proposed north elevation		DCO-PP-16X-VCTEF-180020
Kiosk design intent		DCO-PP-16X-VCTEF-180021
Typical river wall design intent	1 of 2	DCO-PP-16X-VCTEF-180022

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

Drawing Title	Sheet No.	Drawing number
Typical river wall design intent	2 of 2	DCO-PP-16X-VCTEF-180023
As existing listed structure interface - foreshore structure		DCO-PP-16X-VCTEF-180024
Proposed listed structure interface - foreshore structure		DCO-PP-16X-VCTEF-180025
As existing and proposed listed structure interface weir structure		DCO-PP-16X-VCTEF-180026
Proposed mooring access details		DCO-PP-16X-VCTEF-180027
Construction phases - phase 1 Site setup		DCO-PP-16X-VCTEF-180028
Construction phases - phase 2 Shaft construction and tunnelling		DCO-PP-16X-VCTEF-180029
Construction phases - phase 3 Construction of other structures		DCO-PP-16X-VCTEF-180030
Construction phases - phase 4 Site demobilisation		DCO-PP-16X-VCTEF-180031
Highway layout during utility diversion*		DCO-PP-16X-VCTEF-180039
Highway layout during construction - Phase 1 5*		DCO-PP-16X-VCTEF-180040
Relocated coach bays during construction - Albert Embankment*		DCO-PP-16X-VCTEF-180041
Relocated coach bays - Lambeth Palace Road*		DCO-PP-16X-VCTEF-180042
Highway layout during construction - Coach bays on Millbank*		DCO-PP-16X-VCTEF-180043
Permanent highway layout*		DCO-PP-16X-VCTEF-180044



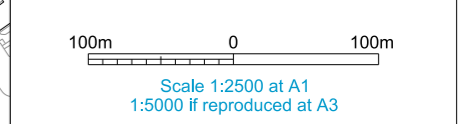
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- Key:**
- Local authority boundary
 - Order limits
 - Tunnel
 - Shaft

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



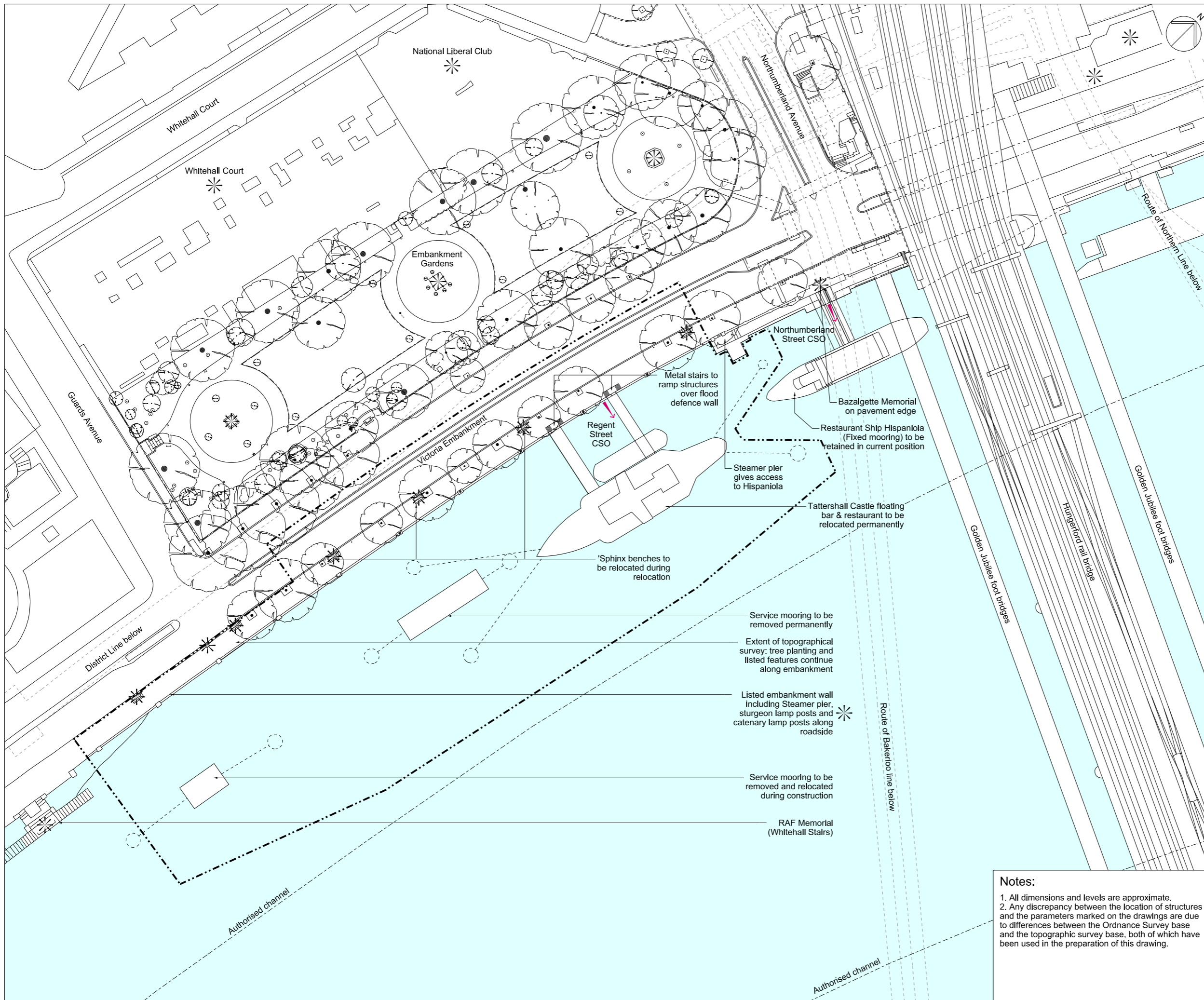
FOR INFORMATION

Location
Victoria Embankment Foreshore
City of Westminster

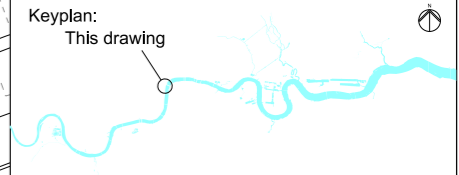
Document Information
Application for Development Consent
Location plan

Book of plans - section 18
DCO-PP-16X-VCTEF-180001
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)
 - - - - - Authorised channel
 - * Listed buildings/structures
 - Approximate position of CSO outlet
 - ⊙ Existing trees within surveyed area (trunk sizes vary)

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

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Victoria Embankment Foreshore
City of Westminster

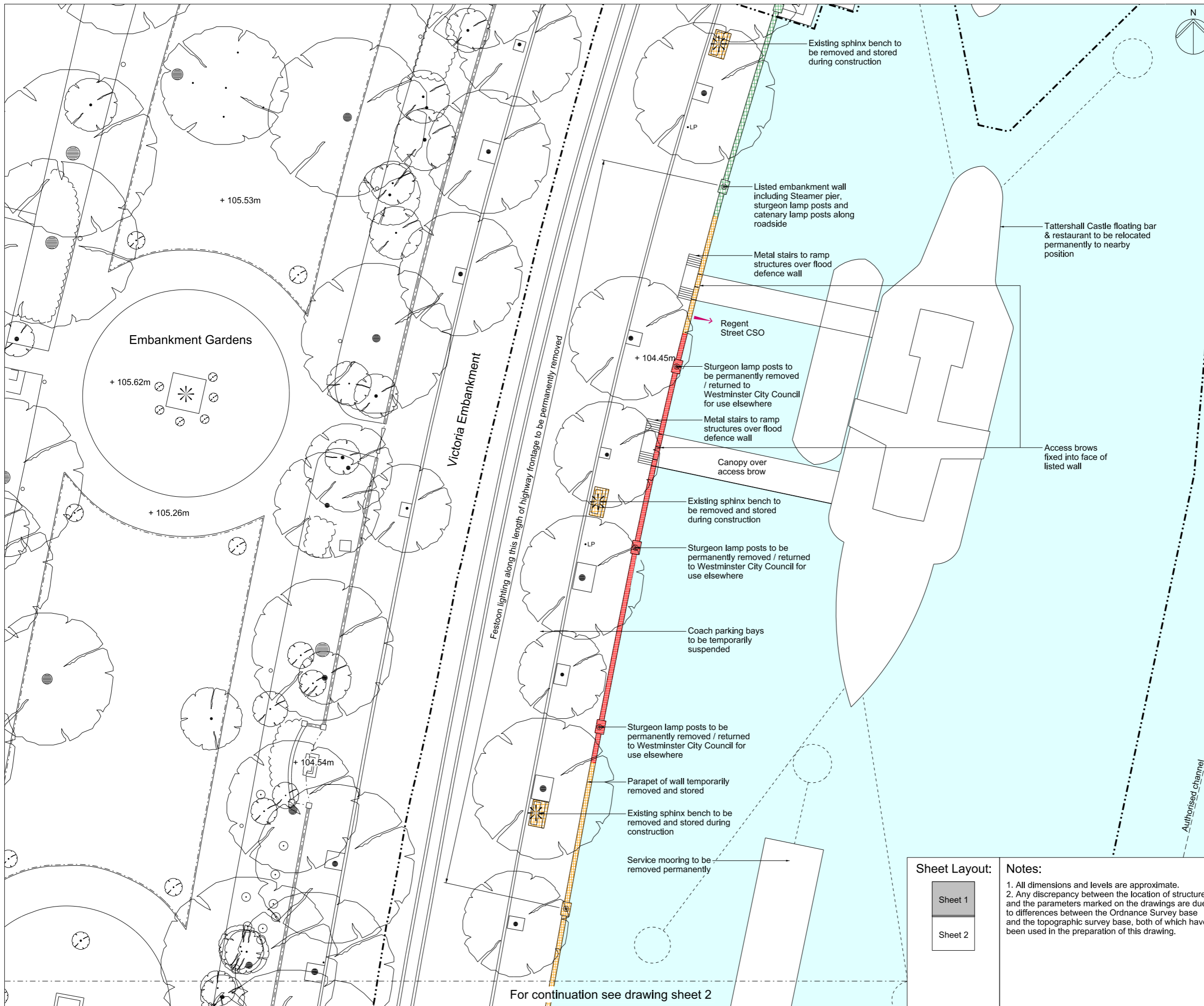
Document Information
Application for Development Consent

As existing
Site features plan
Book of plans - section 18
DCO-PP-16X-VCTEF-180002
January 2013

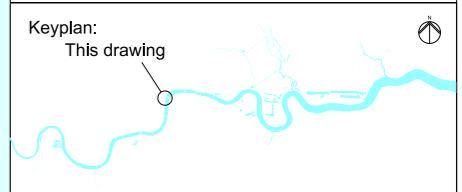


Notes:

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

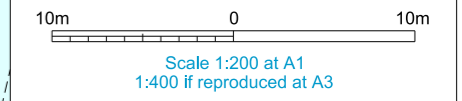


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - - - Authorised channel
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - ✳ Listed buildings/structures
 - Approximate position of CSO outlet
 - ⊙ Existing trees within surveyed area (trunk sizes vary)
 - ▤ Listed buildings / structures within LLAU
 - ▨ Maximum temporary extent of loss of listed buildings / structures
 - ▩ Maximum permanent extent of loss of listed buildings / structures

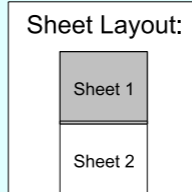


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Document Information
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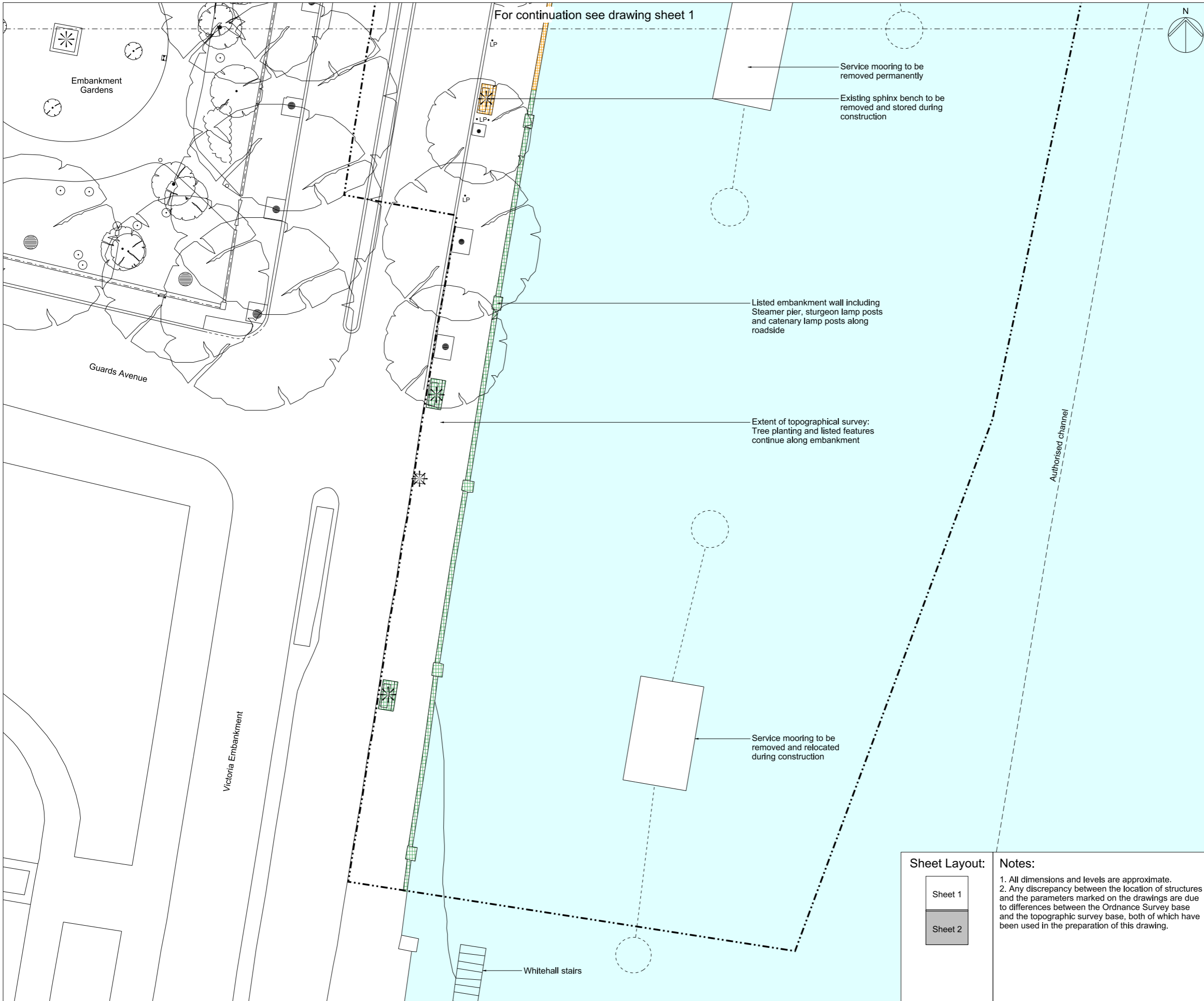
As existing
Landscape plan sheet 1 of 2
Book of plans - section 18
DCO-PP-16X-VCTEF-180003
January 2013



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.

For continuation see drawing sheet 2



For continuation see drawing sheet 1

Service mooring to be removed permanently
Existing sphinx bench to be removed and stored during construction

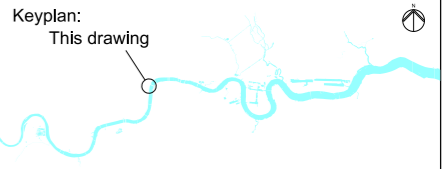
Listed embankment wall including Steamer pier, sturgeon lamp posts and catenary lamp posts along roadside

Extent of topographical survey: Tree planting and listed features continue along embankment

Service mooring to be removed and relocated during construction

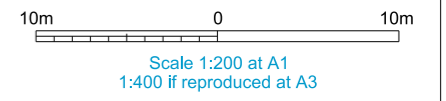
Whitehall stairs

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



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Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent

As existing
Landscape plan sheet 2 of 2
Book of plans - section 18
DCO-PP-16X-VCTEF-180004
January 2013

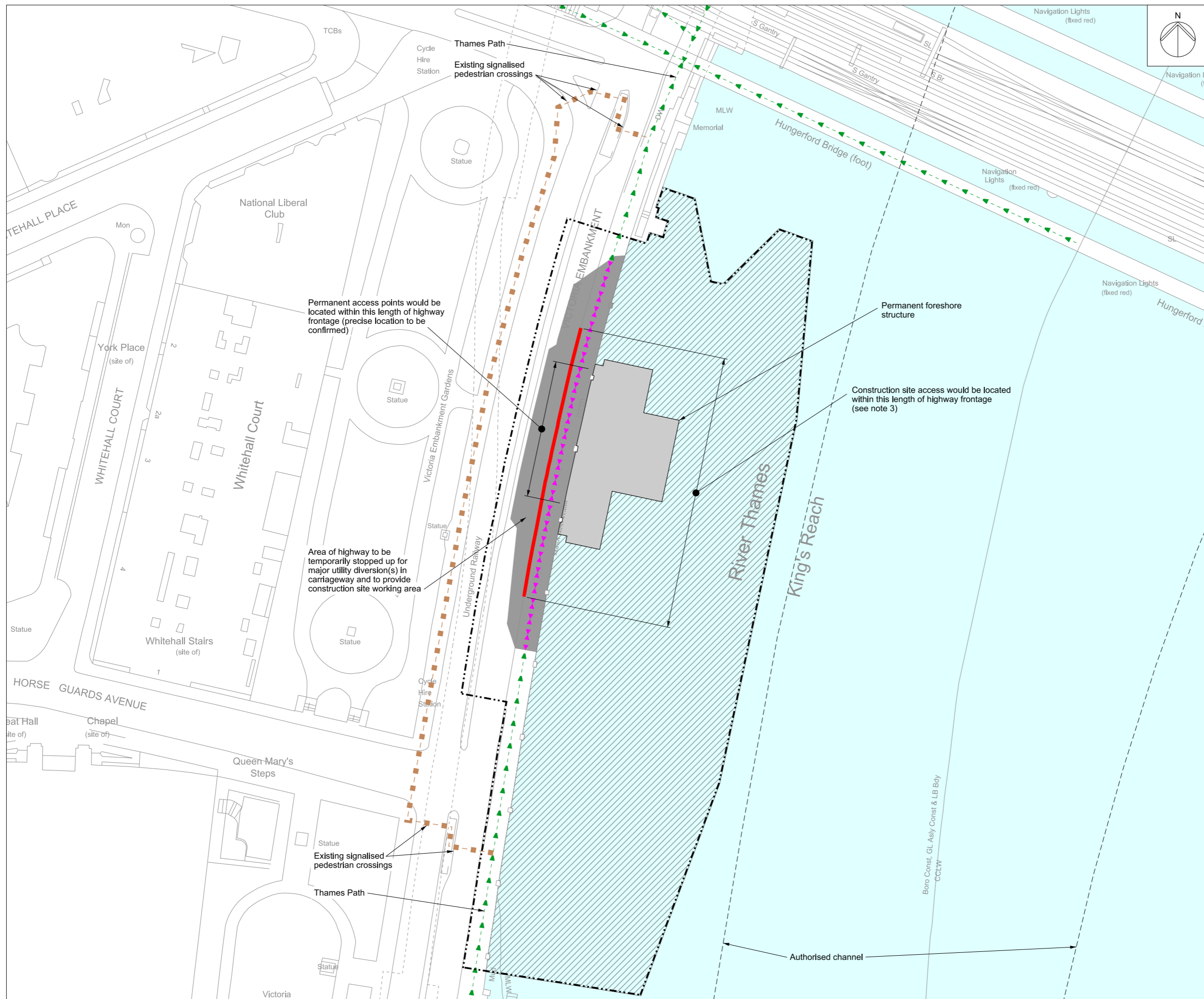


Sheet Layout:

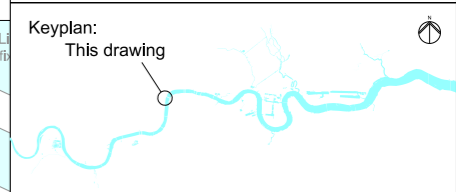
- Sheet 1
- Sheet 2

Notes:

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



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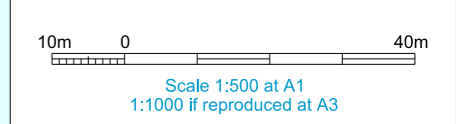


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

- Limits of land to be acquired or used (LLAU)
- Existing public right of way
- Route of temporary diversion of right of way
- Existing right of way temporarily stopped up
- Area of highway to be temporarily stopped up
- Area of temporary suspension of public rights of navigation
- Area of permanent extinguishment of public rights of navigation
- Highway frontage within which access would be located

- Notes:**
- This plan does not show stopping up and diversions of limited duration (eg hoarding erection, minor utility diversions and minor highway works).
 - Only rights of way in or close to worksites are shown. The full extents of rights of way are not shown where they cease to be relevant to the project.
 - The point of the construction site access would be moved from time to time within this length of highway frontage to enable construction of development.



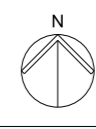
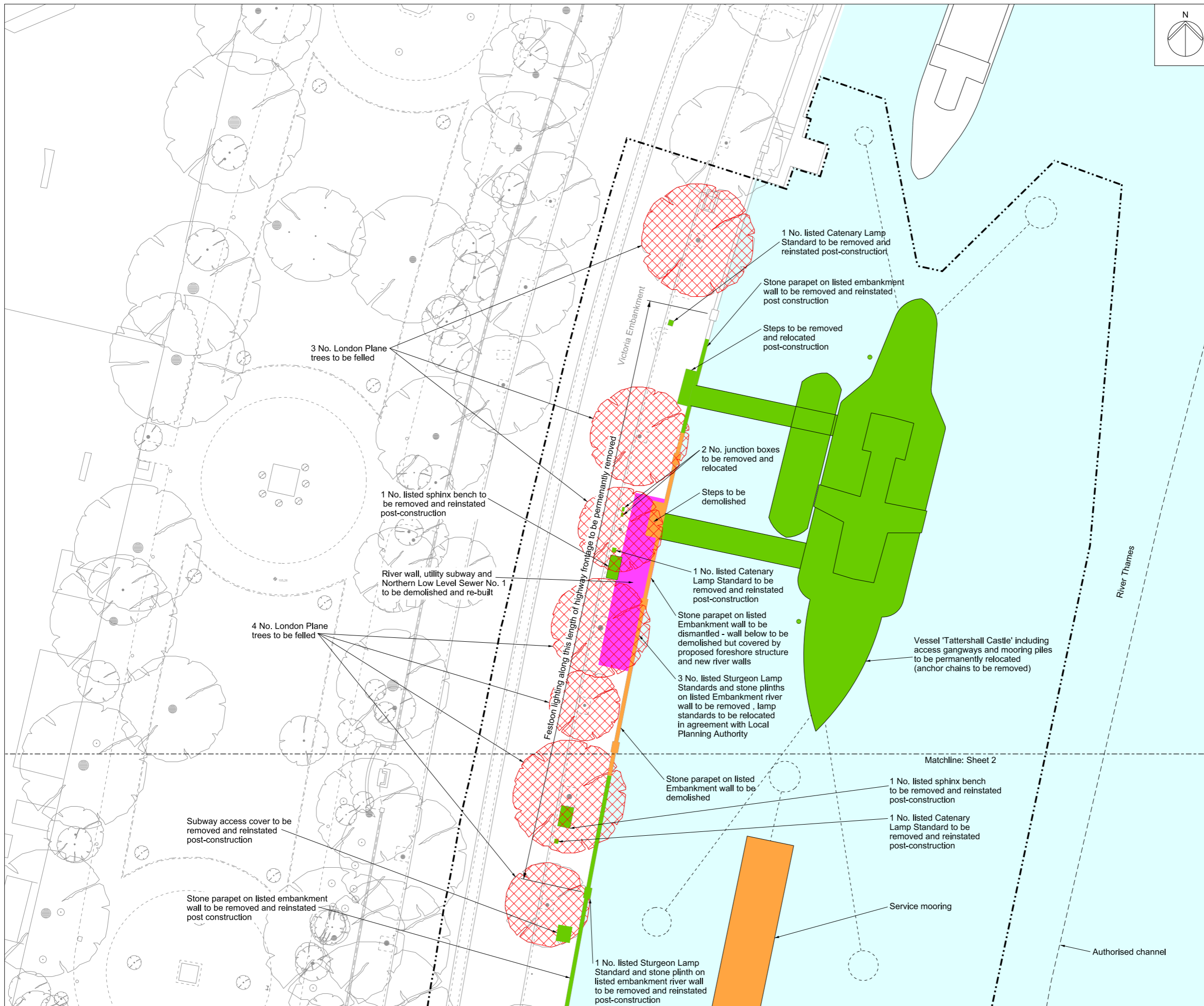
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Document Information
Application for Development Consent
Access plan

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Creating a cleaner, healthier River Thames



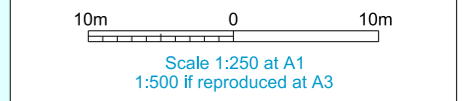
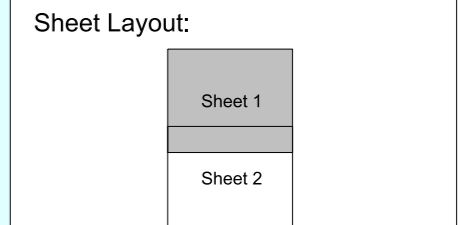
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Above ground structures to be removed
 - Below ground structures to be removed or infilled
 - Structure to be removed and relocated or reinstated

- Notes:**
1. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.
 2. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 3. All lamp standards, parapet sections and benches to be carefully removed and stored securely off site until reinstatement.

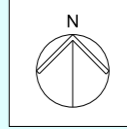
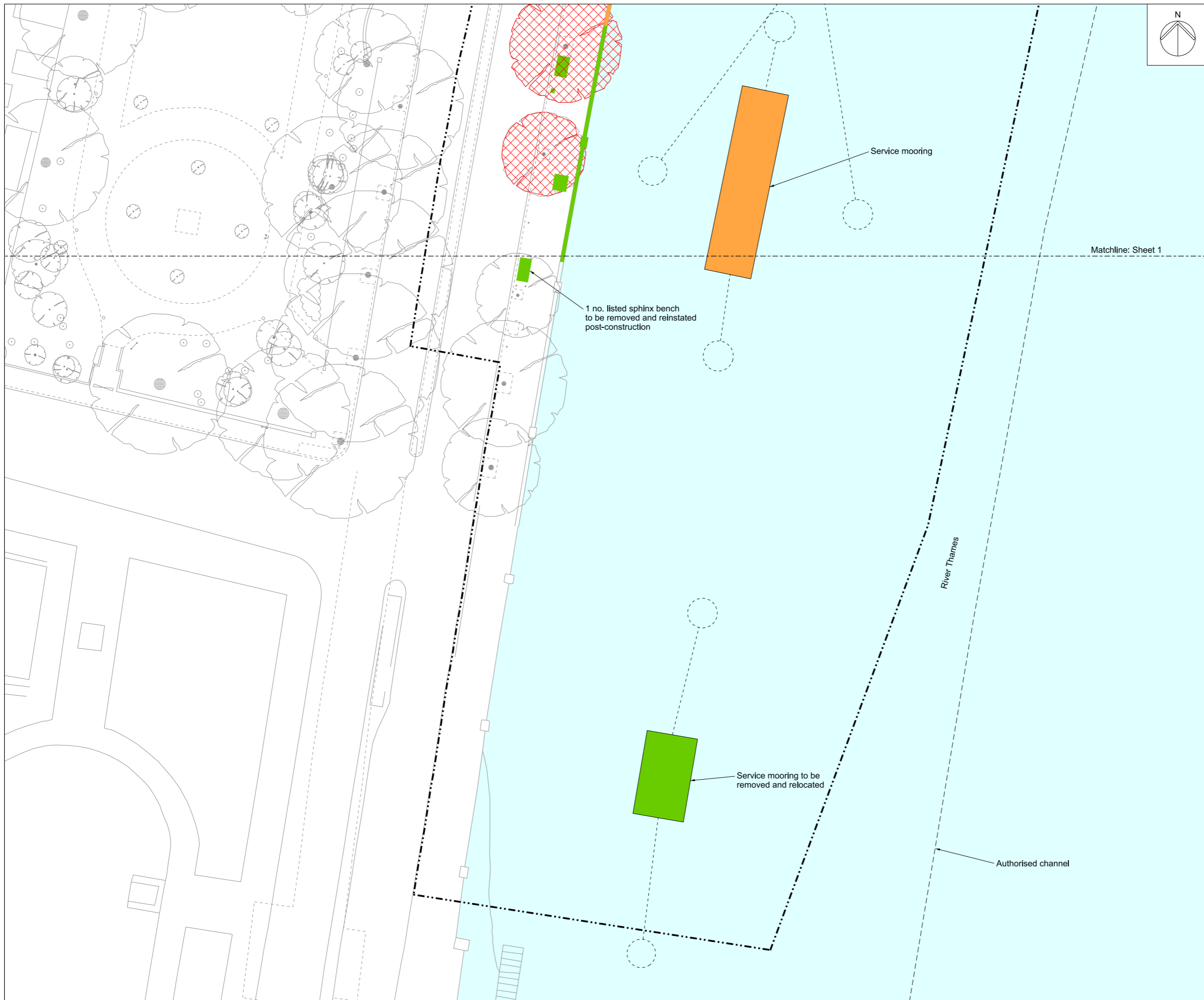


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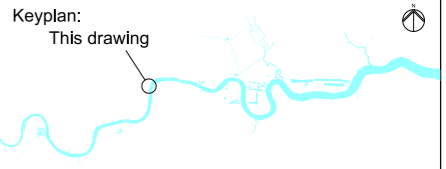
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Demolition and site clearance
Sheet 1 of 2
Book of plans - section 18
DCO-PP-16X-VCTEF-180006
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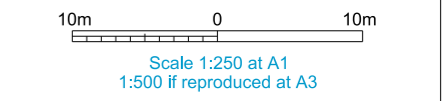
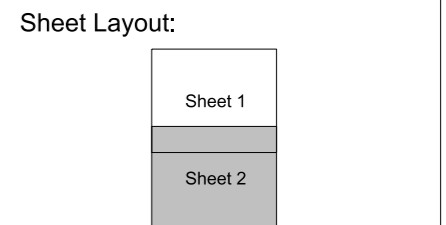
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Above ground structures to be removed
 - Structure to be removed and relocated or reinstated

- Notes:**
1. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.
 2. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 3. All lamp standards, parapet sections and benches to be carefully removed and stored securely off site until reinstatement.



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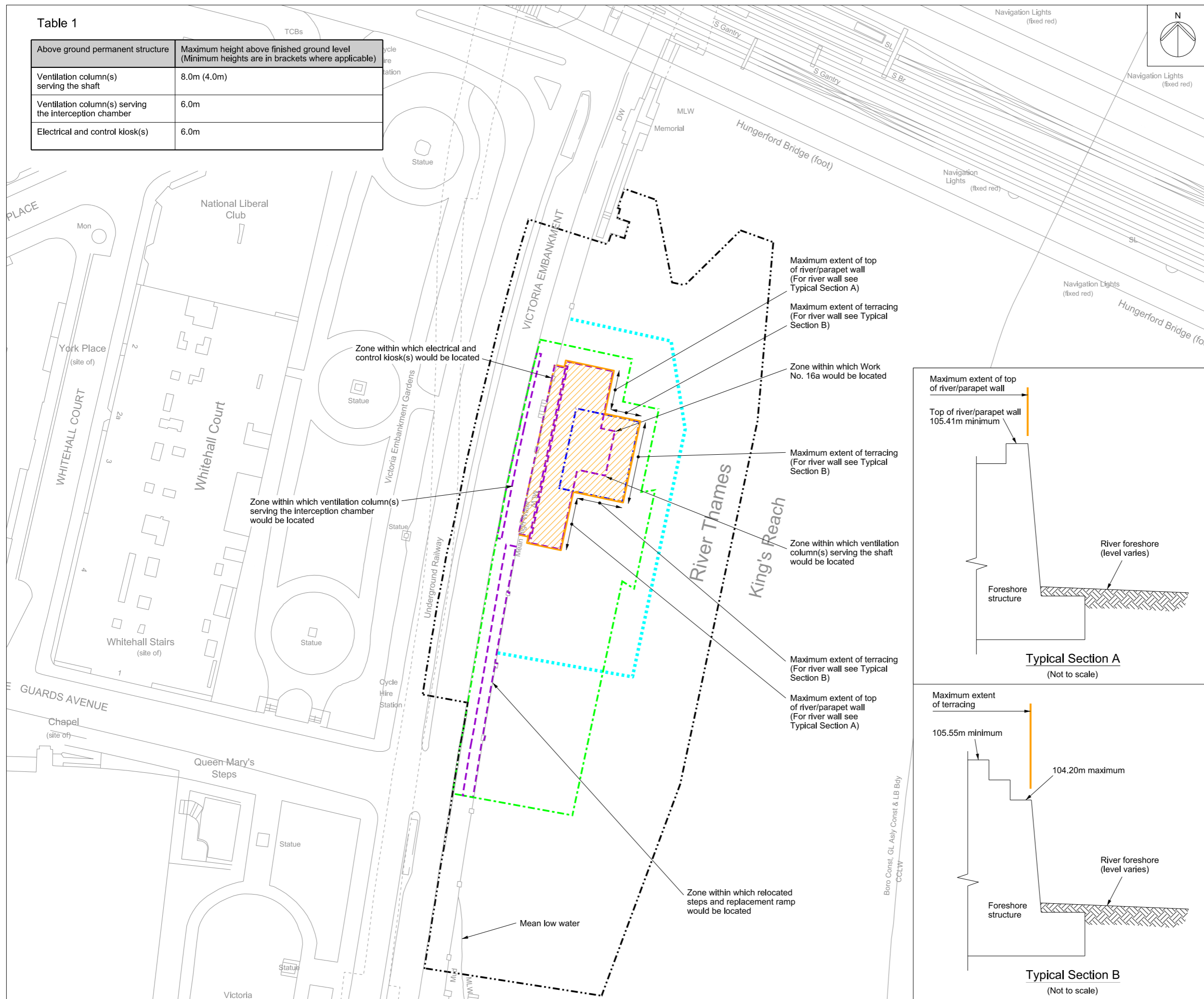
Location
Victoria Embankment Foreshore
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Application for Development Consent
Demolition and site clearance
Sheet 2 of 2
Book of plans - section 18
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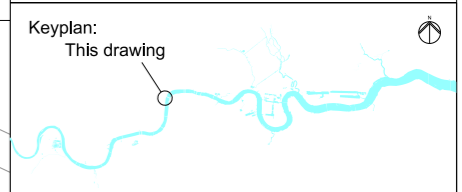


Table 1

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 the interception chamber	6.0m
Electrical and control kiosk(s)	6.0m



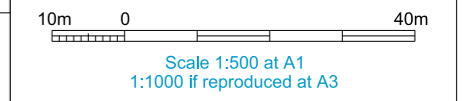
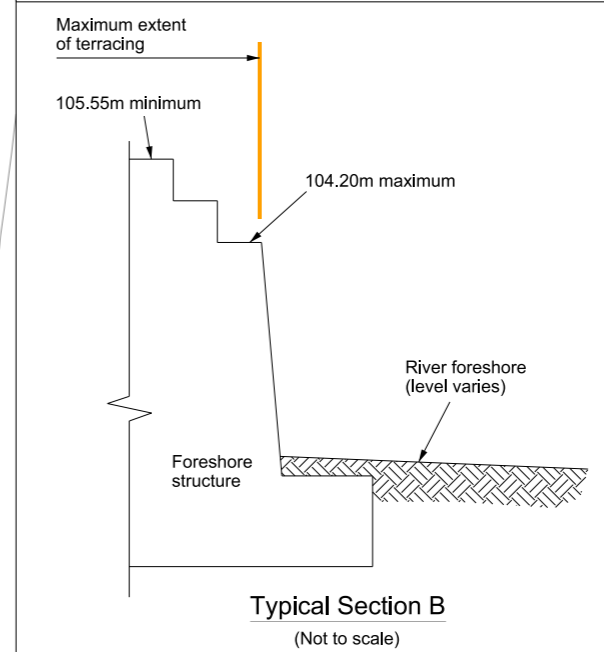
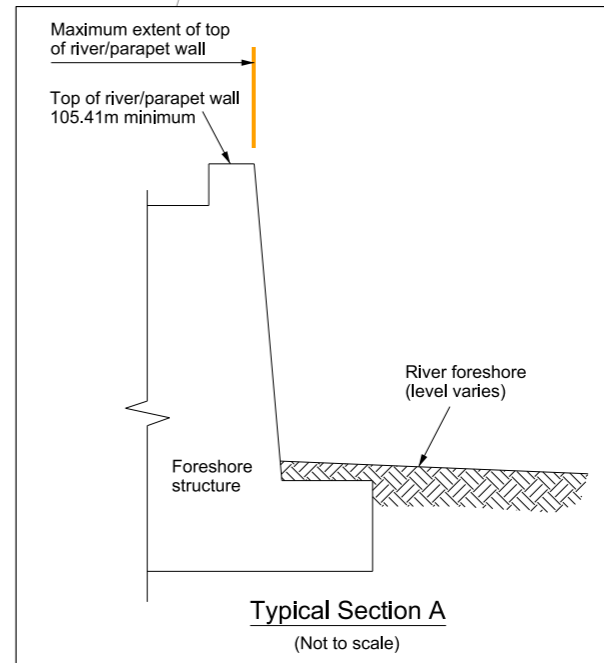
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located (those listed in Table 1)
 - Zone within which required landscaping would be located
 - Maximum extent of top of river/parapet wall or terracing
 - Maximum extent of temporary works platform

- Notes:**
1. All dimensions and levels are approximate.
 2. The Site Works Parameter Key Plan identifies each zone independently.
 3. The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.



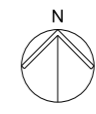
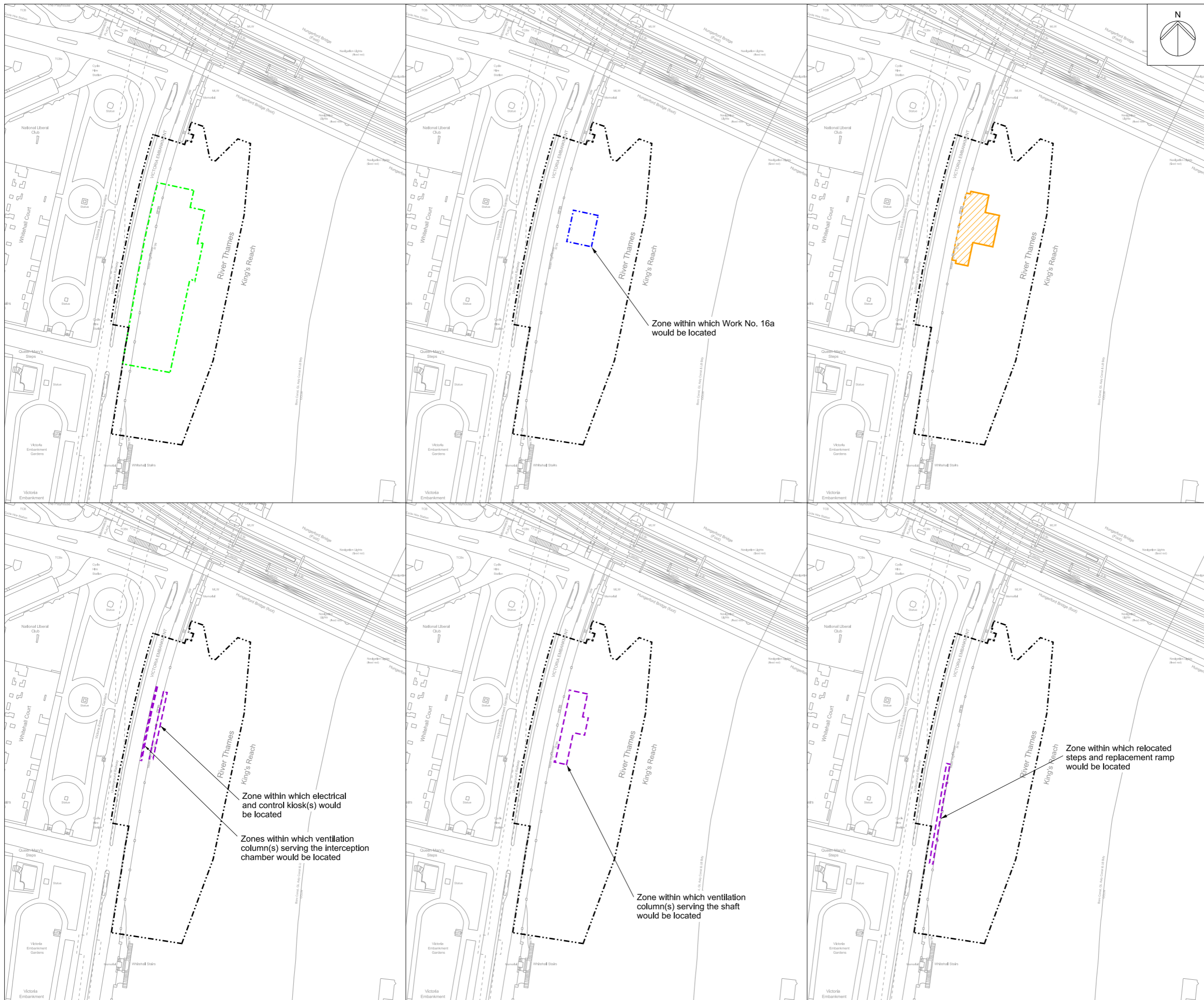
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Location
Victoria Embankment Foreshore
City of Westminster

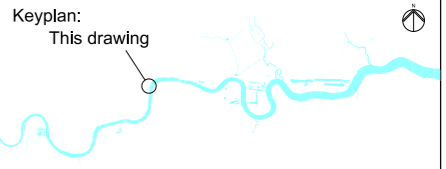
Document Information
Application for Development Consent
Site works parameter plan

Book of plans - section 18
DCO-PP-16X-VCTEF-180008
January 2013





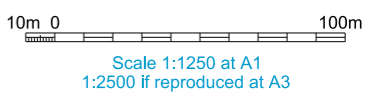
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located
 - Zone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

- Notes:**
1. All dimension 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.



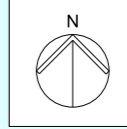
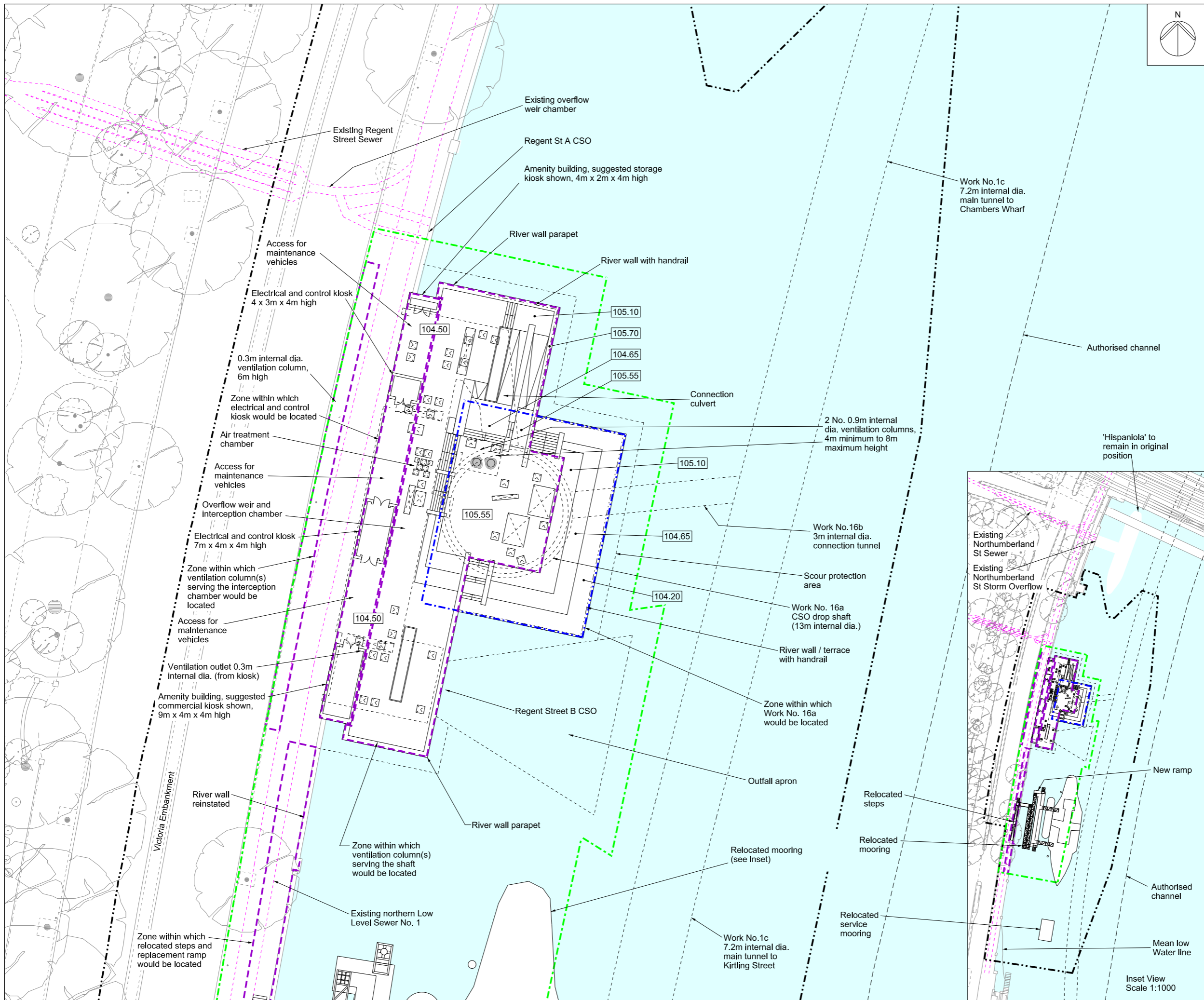
FOR INFORMATION

Location
Victoria Embankment Foreshore
City of Westminster

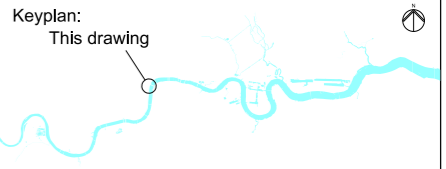
Document Information
Application for Development Consent
Site works parameter key plan

Book of plans - section 18
DCO-PP-16X-VCTEF-180009
January 2013





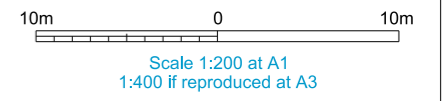
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

- 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. Access for external inspection of tidal flap gates in foreshore to be by boat.



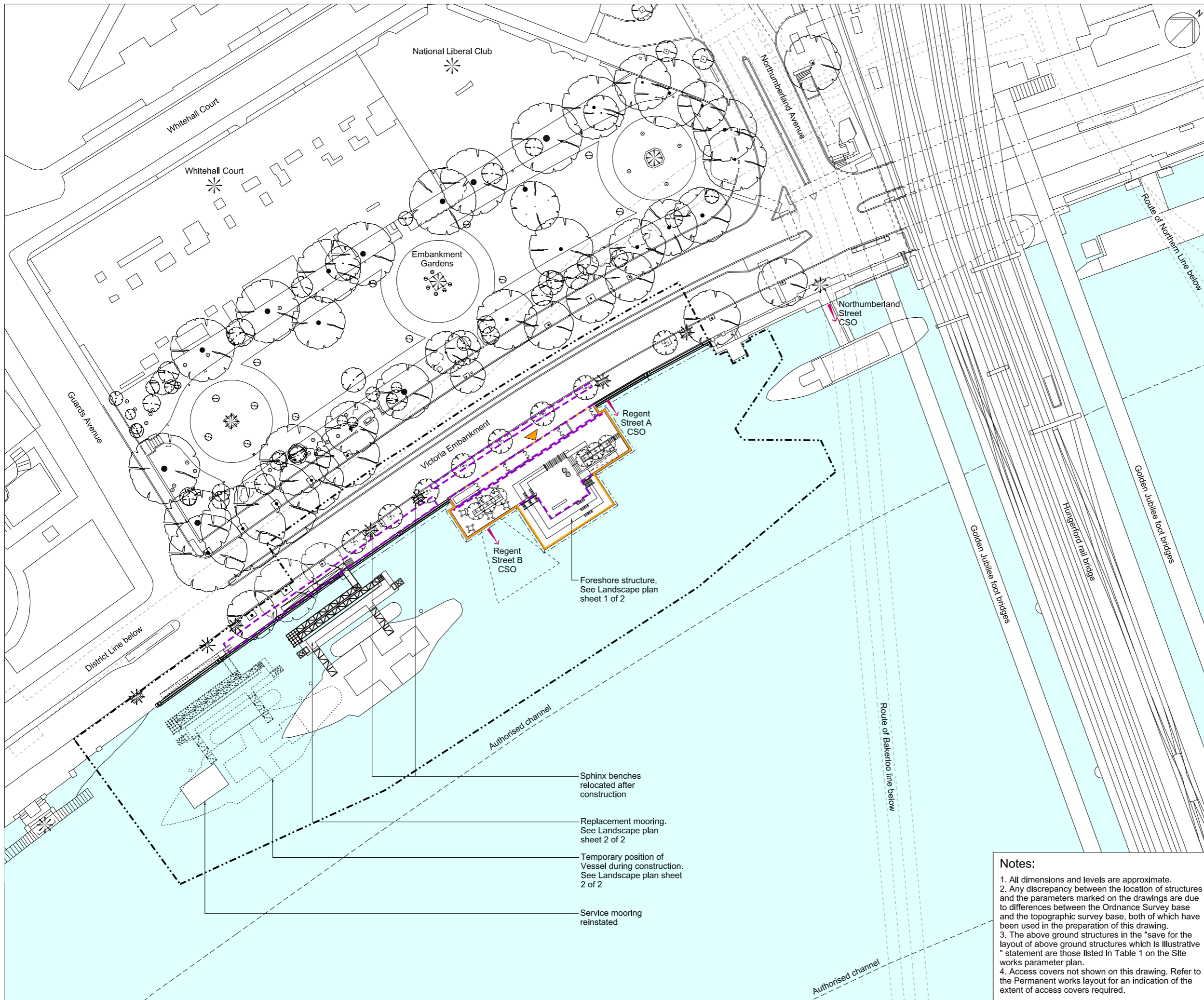
ILLUSTRATIVE

Location
Victoria Embankment Foreshore
City of Westminster

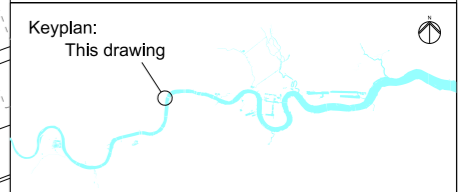
Document Information
Application for Development Consent
Permanent works layout

Book of plans - section 18
DCO-PP-16X-VCTEF-180010
January 2013



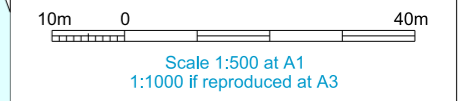


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - Zone within which permanent above ground structures would be located
 - Maximum extent of foreshore structure
 - - - Authorised channel
 - * Listed buildings/structures
 - ~ Approximate position of CSO outlet
 - ⊙ Existing trees within surveyed area (trunk sizes vary)
 - ⊕ Proposed trees
 - ▶ Thames Water access



INDICATIVE
Save for layout of above ground structures which is illustrative

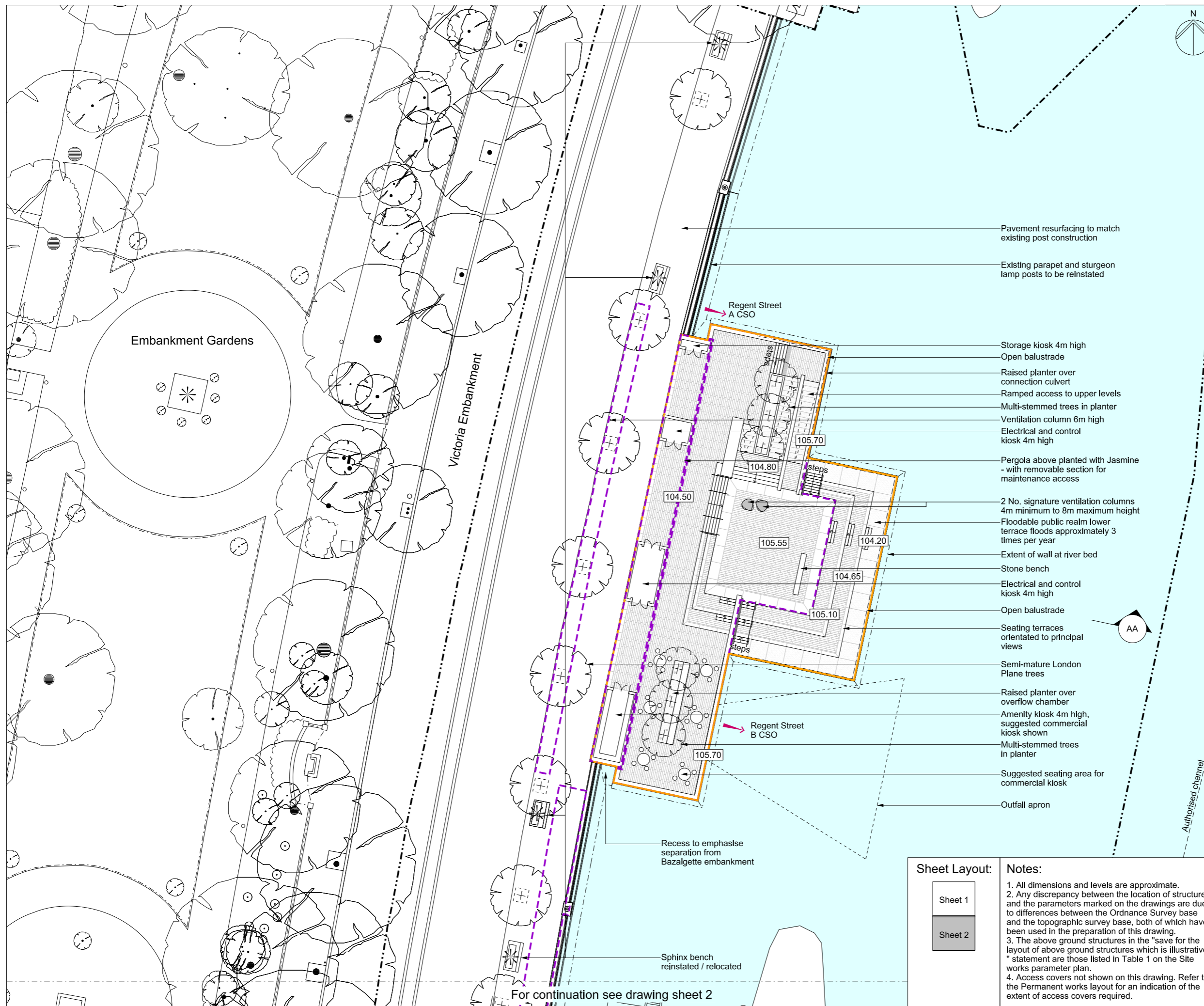
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Proposed
Site features plan
Book of plans - section 18
DCO-PP-16X-VCTEF-180011
January 2013

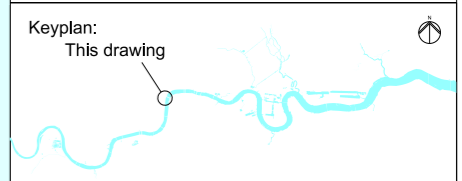


Notes:

- All dimensions and levels are approximate.
- Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.
- 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)
 - Listed buildings/structures
 - Approximate position of CSO outlet
 - Existing trees within surveyed area (trunk sizes vary)
 - Proposed trees

Pavement resurfacing to match existing post construction

Existing parapet and sturgeon lamp posts to be reinstated

Regent Street A CSO

Storage kiosk 4m high

Open balustrade

Raised planter over connection culvert

Ramped access to upper levels

Multi-stemmed trees in planter

Ventilation column 6m high

Electrical and control kiosk 4m high

Pergola above planted with Jasmine - with removable section for maintenance access

2 No. signature ventilation columns 4m minimum to 8m maximum height

Floodable public realm lower terrace floods approximately 3 times per year

Extent of wall at river bed

Stone bench

Electrical and control kiosk 4m high

Open balustrade

Seating terraces orientated to principal views

Semi-mature London Plane trees

Raised planter over overflow chamber

Amenity kiosk 4m high, suggested commercial kiosk shown

Multi-stemmed trees in planter

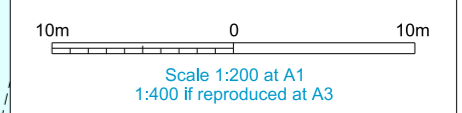
Suggested seating area for commercial kiosk

Outfall apron

Recess to emphasise separation from Bazalgette embankment

Sphinx bench reinstated / relocated

For continuation see drawing sheet 2



INDICATIVE
Save for layout of above ground structures which is illustrative

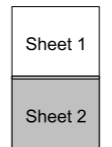
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent

Proposed
Landscape plan sheet 1 of 2
Book of plans - section 18
DCO-PP-16X-VCTEF-180012
January 2013

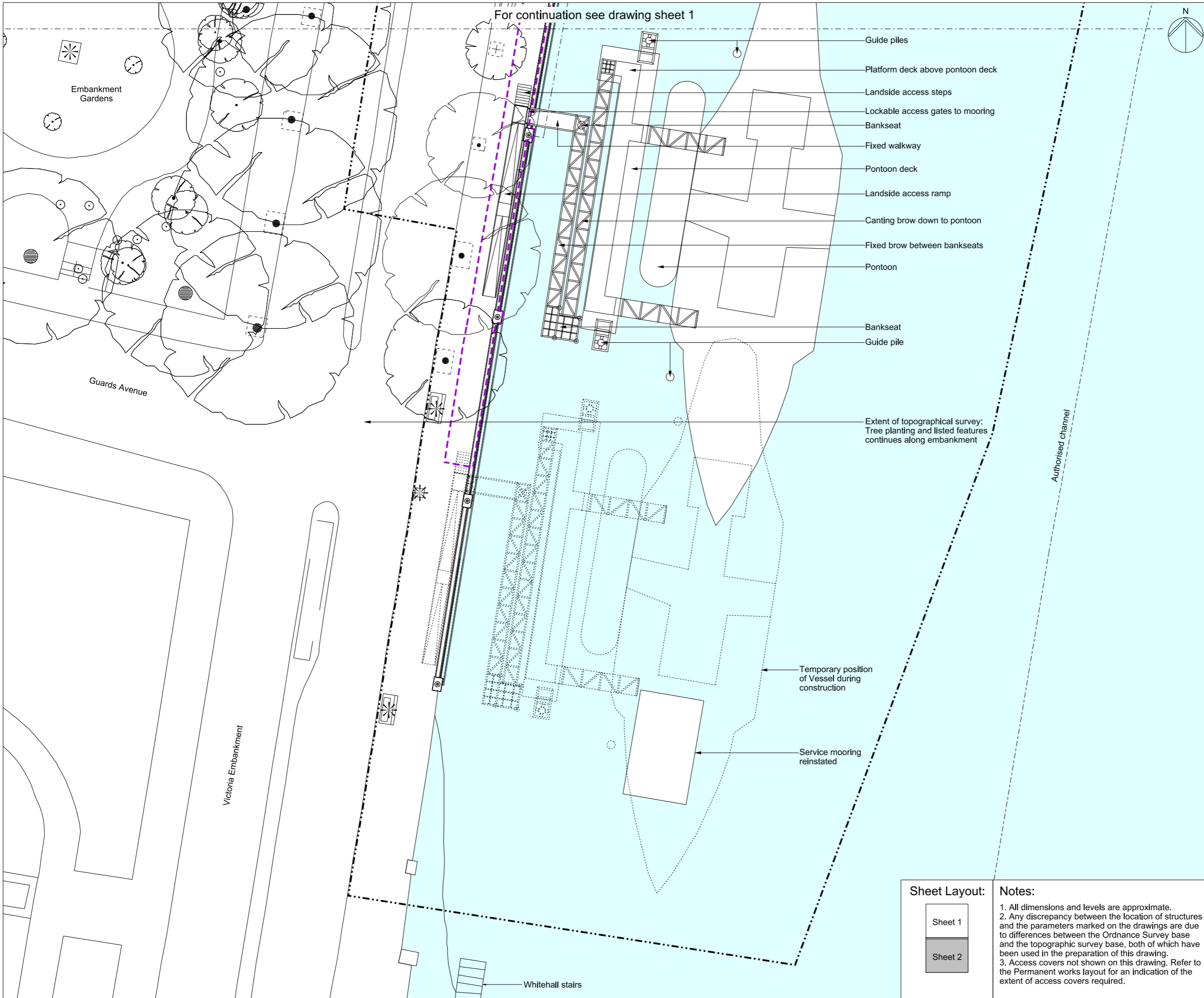


Sheet Layout:

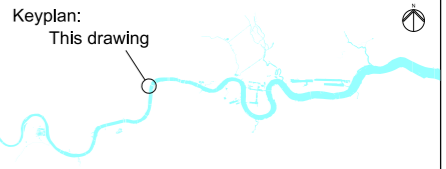


Notes:

1. All dimensions and levels are approximate.
2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.
3. The above ground structures in the "save for the layout of above ground structures which is illustrative" statement are those listed in Table 1 on the Site works parameter plan.
4. Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.

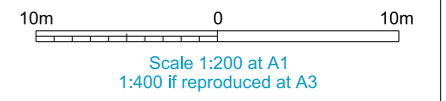


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which permanent above ground structures would be located
 - Authorised channel
 - ☼ Listed buildings/structures
 - ⊙ Existing trees within surveyed area (trunk sizes vary)
 - ⊕ Proposed trees



FOR APPROVAL

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Proposed
Landscape plan sheet 2 of 2
Book of plans - section 18
DCO-PP-16X-VCTEF-180013
January 2013



Sheet Layout:

Sheet 1
Sheet 2

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

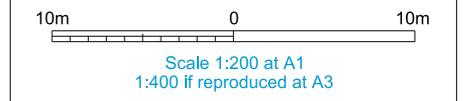
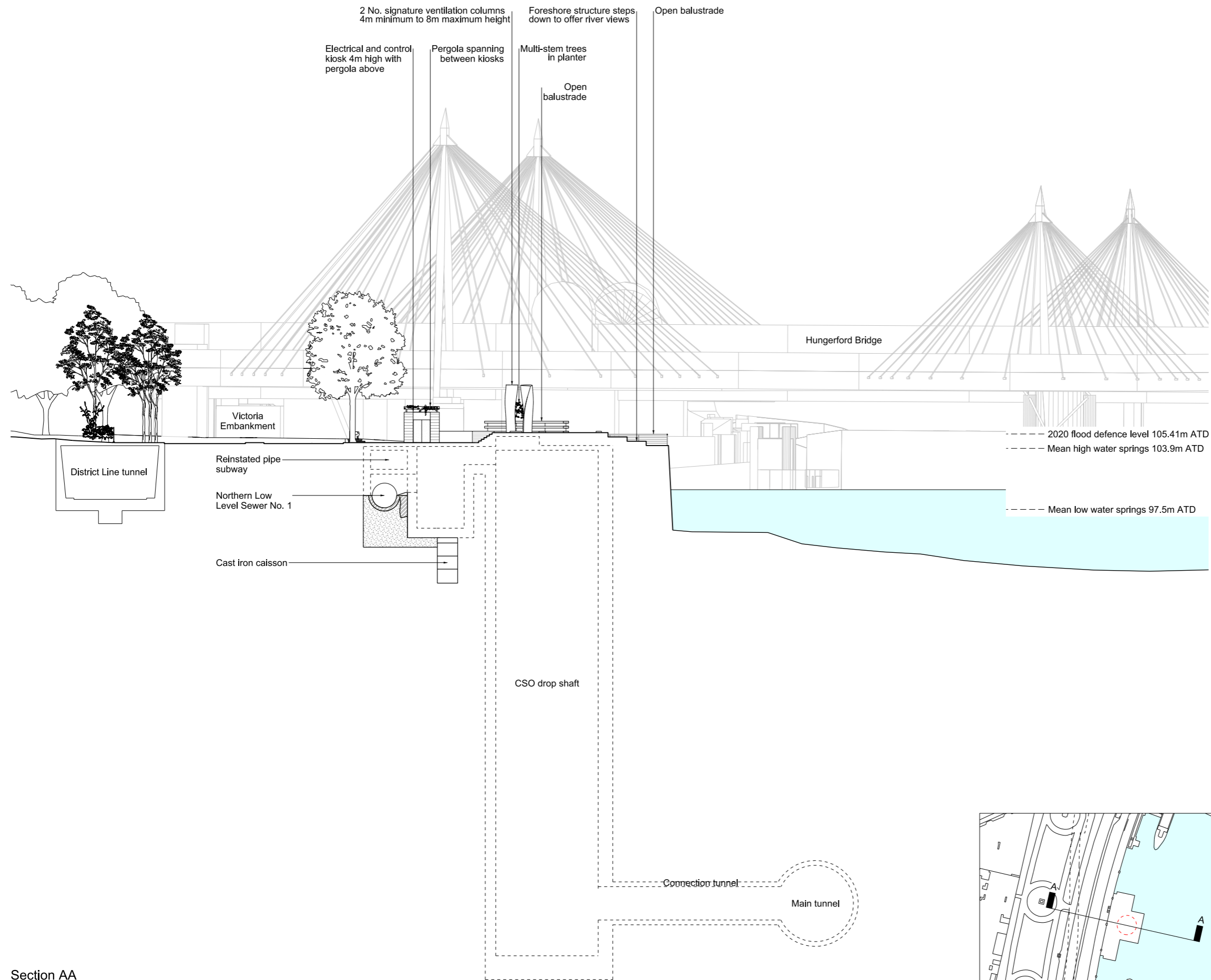
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

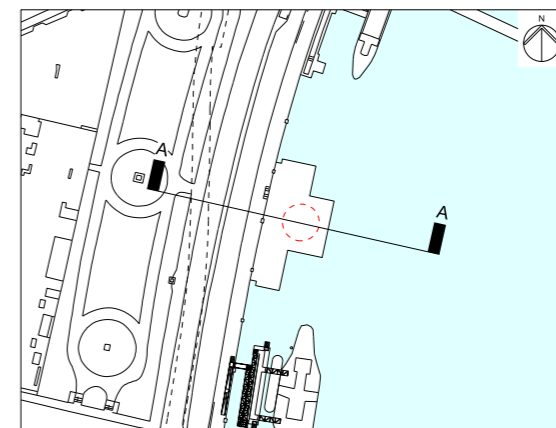
Notes:

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

Section AA



Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Section AA

Book of plans - section 18
DCO-PP-16X-VCTEF-180014
January 2013



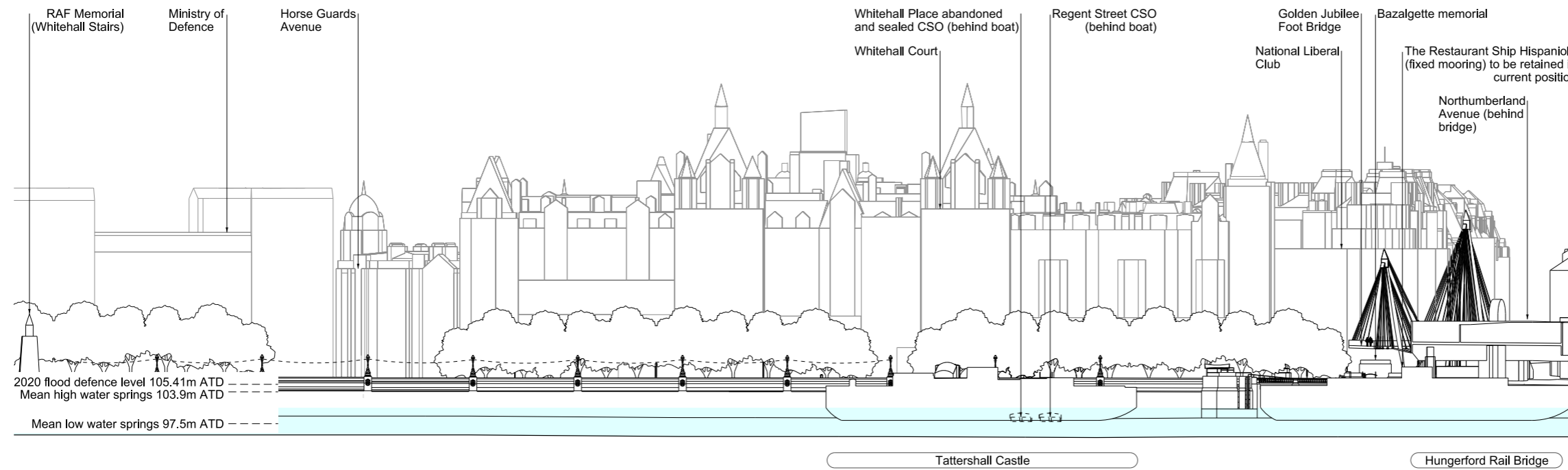
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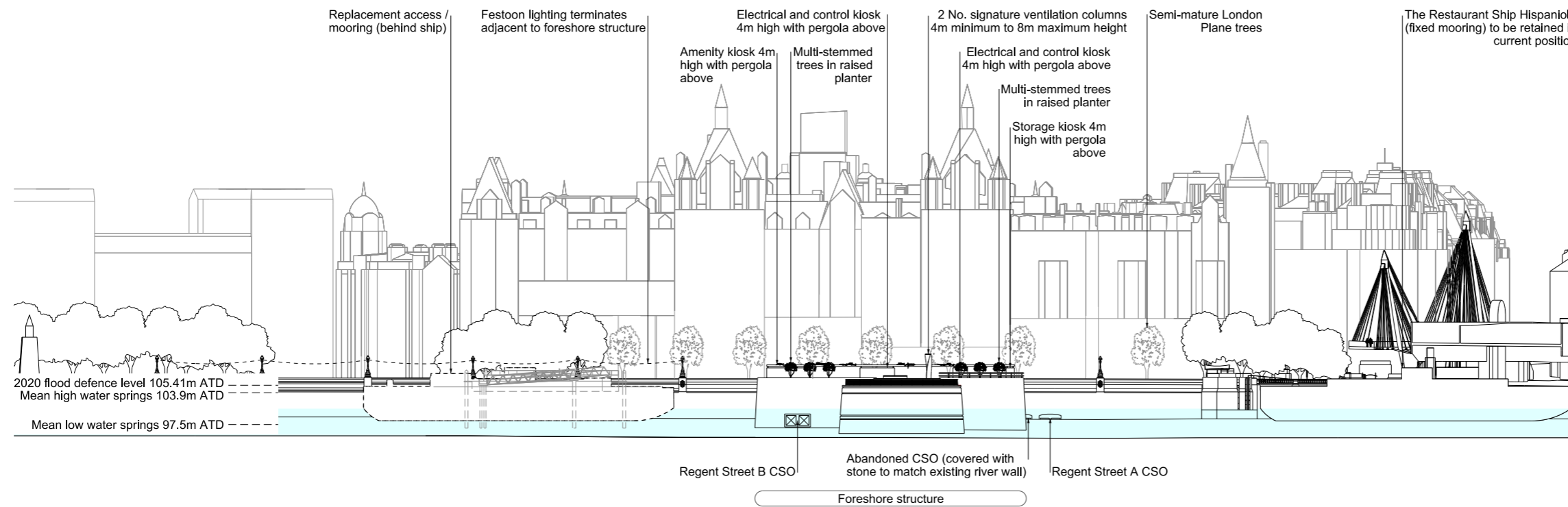
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

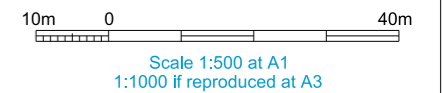
1. All dimensions and levels are approximate.



As existing river elevation



Proposed river elevation



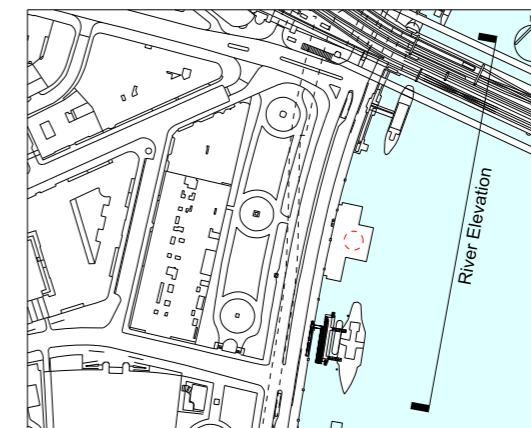
ILLUSTRATIVE

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent

As existing and proposed
Long river elevation
Book of plans - section 18
DCO-PP-16X-VCTEF-180015
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



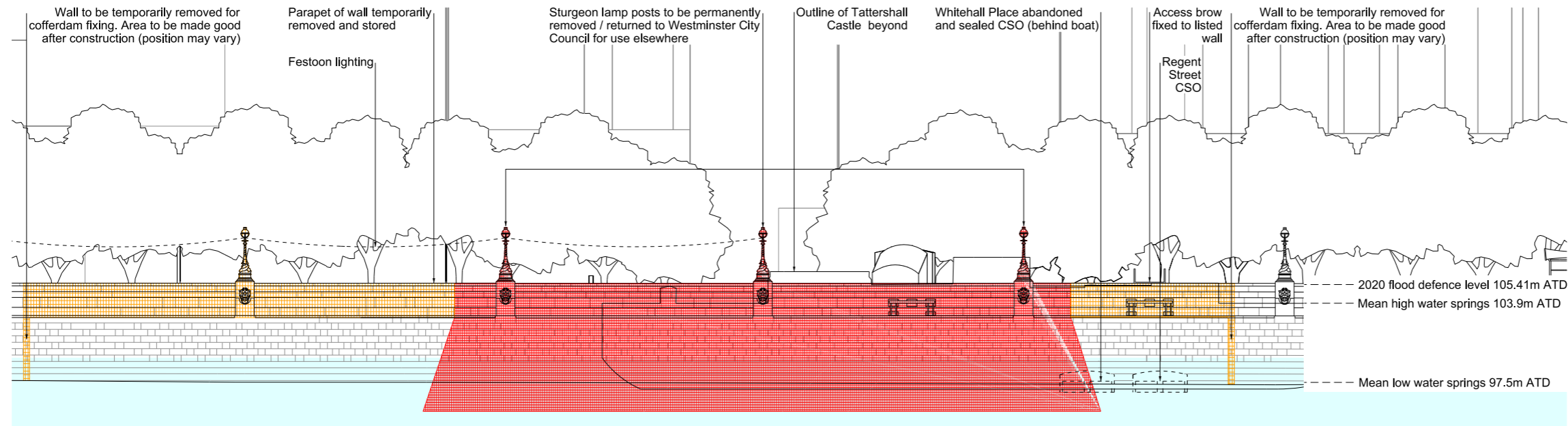
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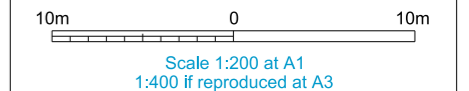
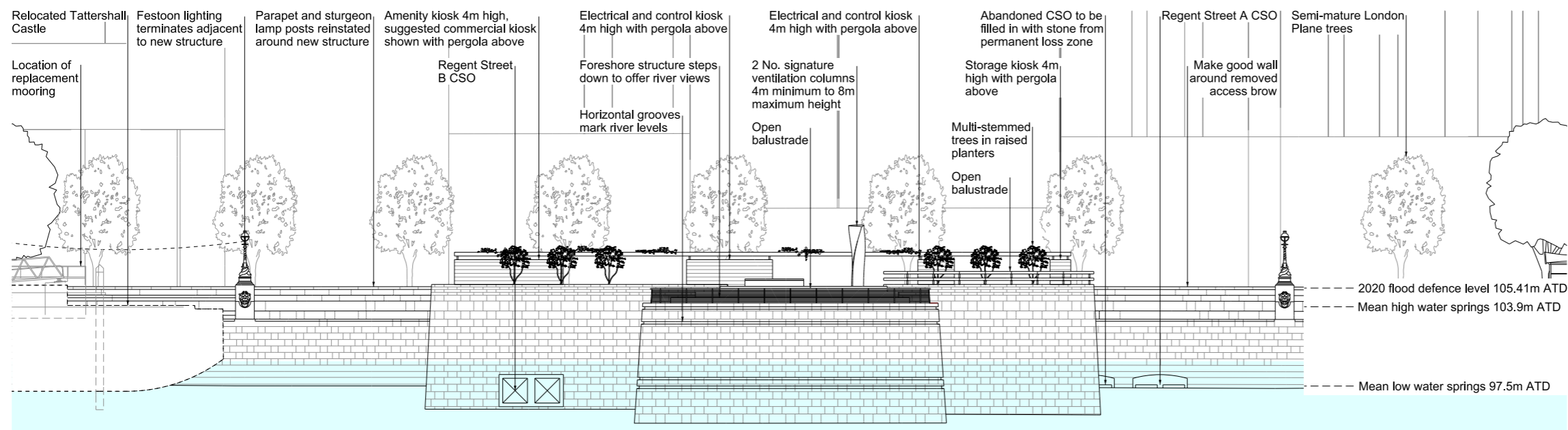
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

- Notes:**
- All dimensions and levels are approximate.
 - Drawing to be read in conjunction with conservation statement.

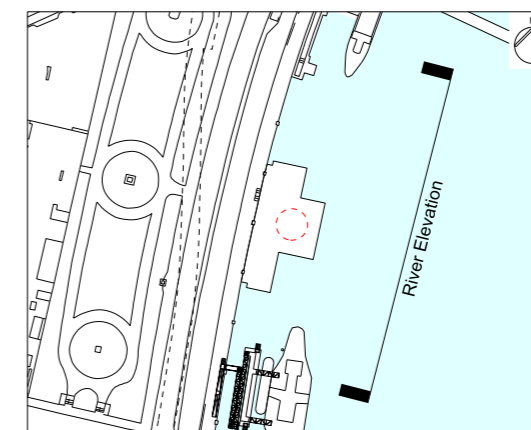


As existing river elevation



Proposed river elevation

Foreshore structure



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

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
As existing and proposed
River elevation - impact on listed structure
Book of plans - section 18
DCO-PP-16X-VCTEF-180016
January 2013



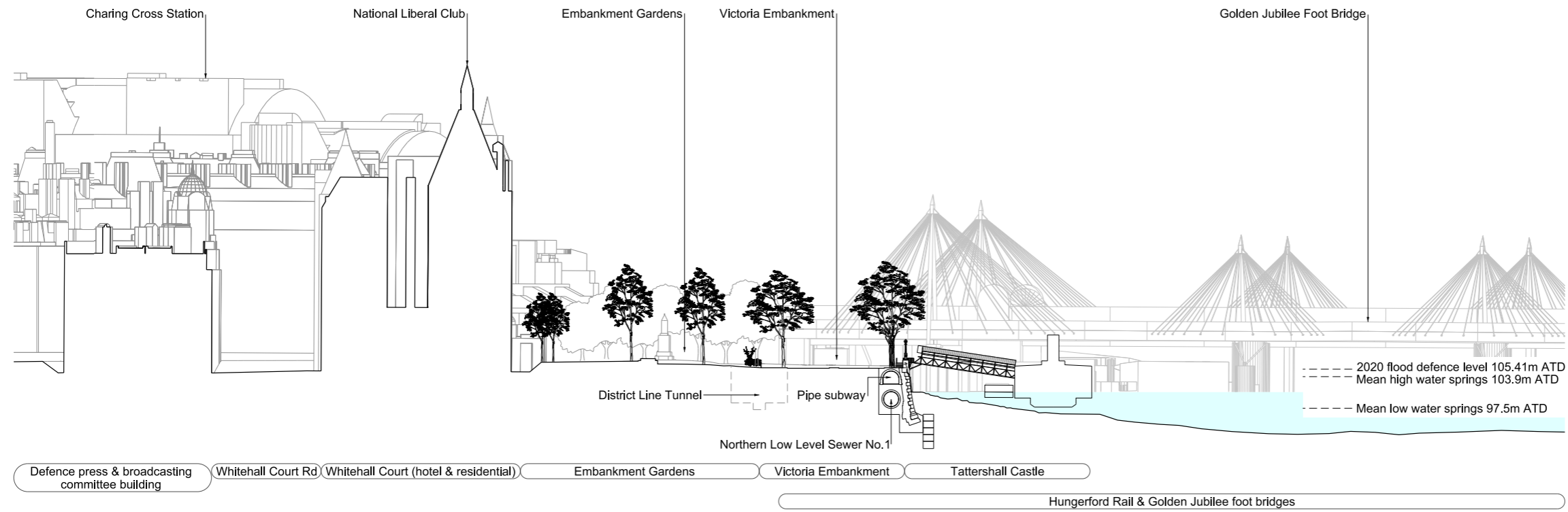
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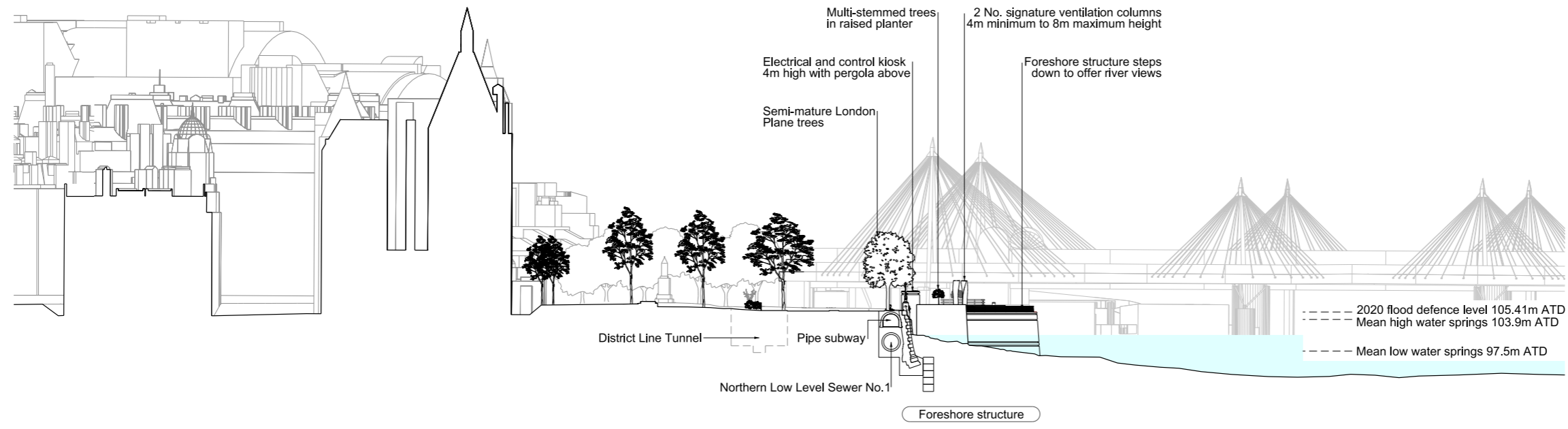
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

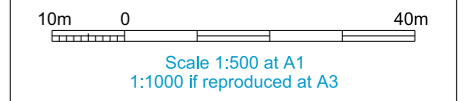
1. All dimensions and levels are approximate.



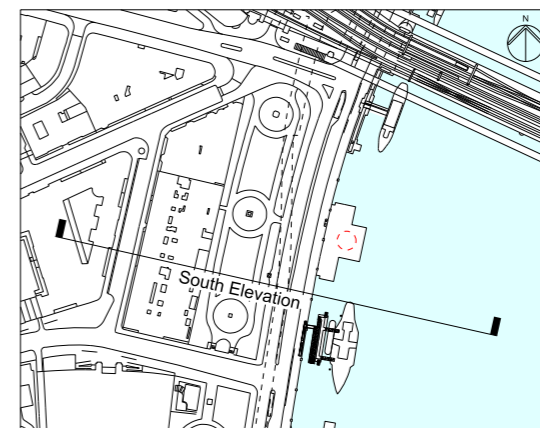
As existing South elevation



Proposed South elevation



ILLUSTRATIVE



Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
As existing and proposed
South elevation
Book of plans - section 18
DCO-PP-16X-VCTEF-180017
January 2013



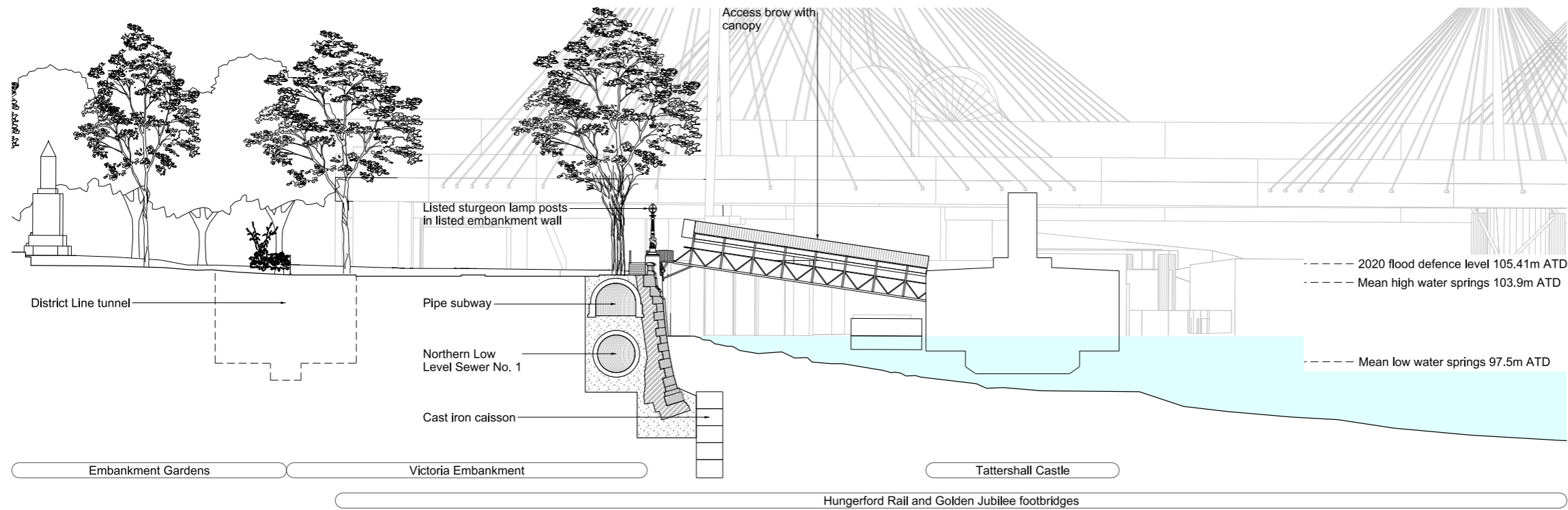
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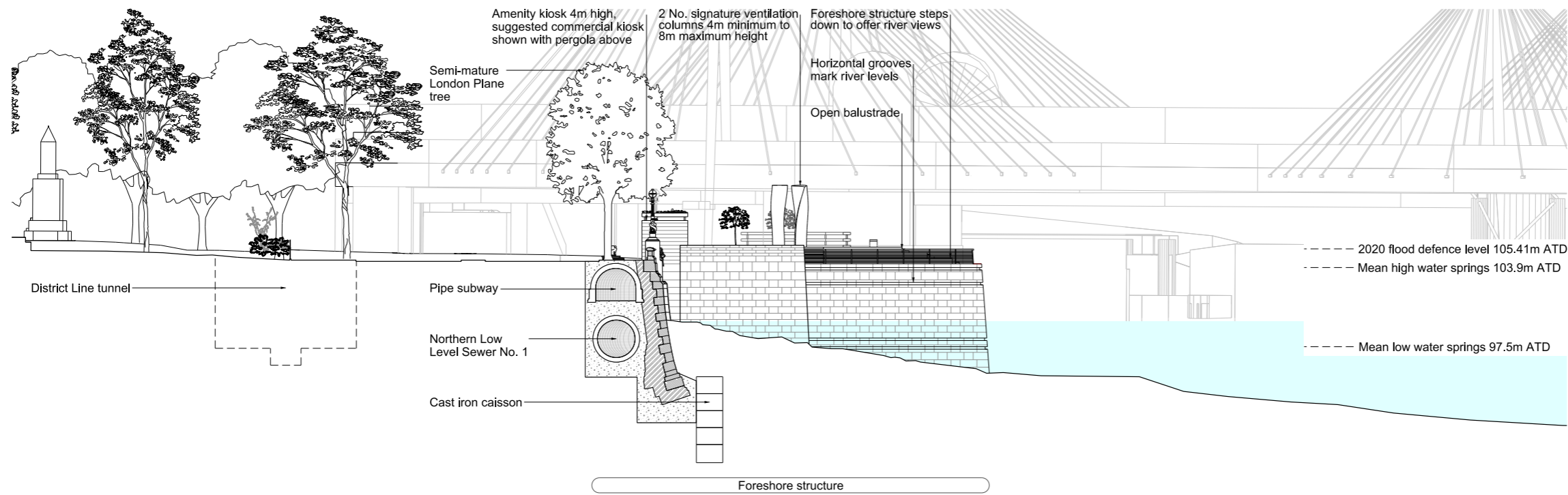
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

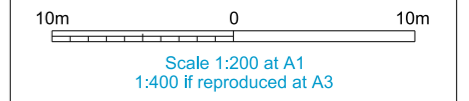
1. All dimensions and levels are approximate.



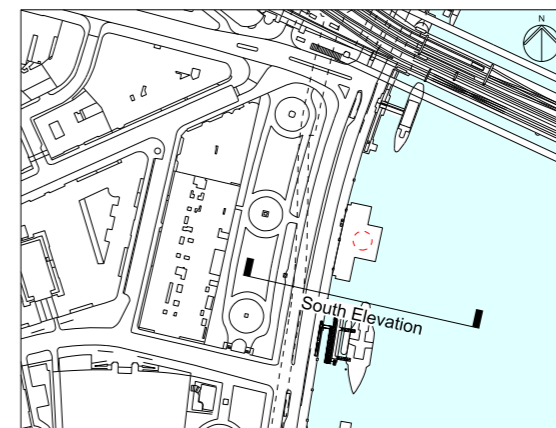
As existing South elevation



Proposed South elevation



ILLUSTRATIVE



Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
As existing and proposed
Detailed south elevation
Book of plans - section 18
DCO-PP-16X-VCTEF-180018
January 2013

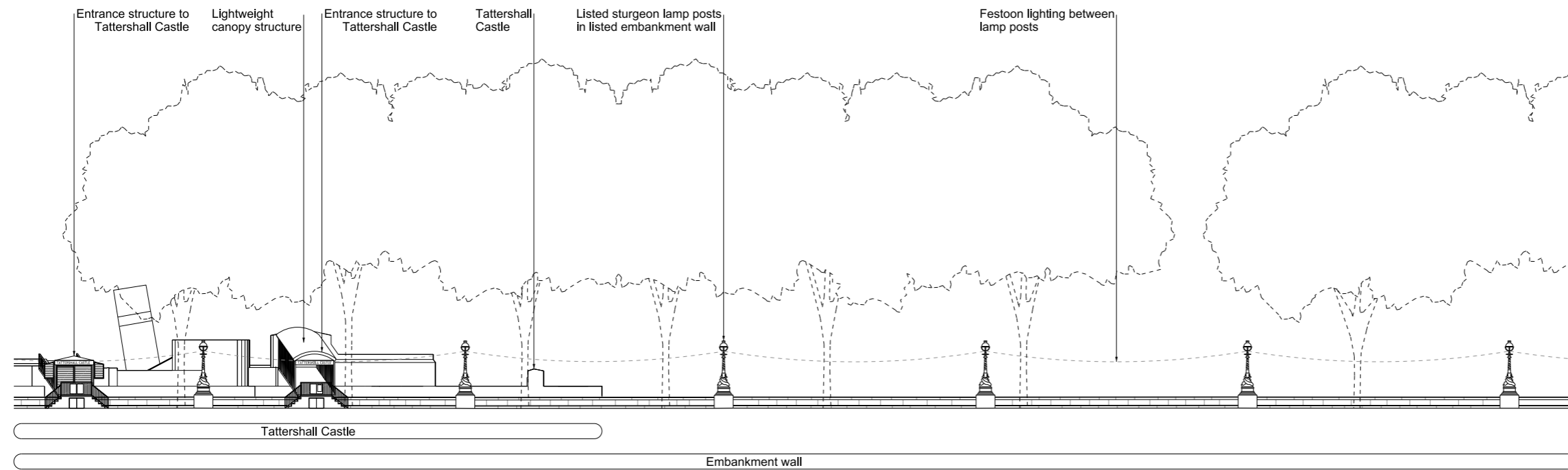


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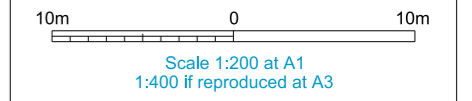
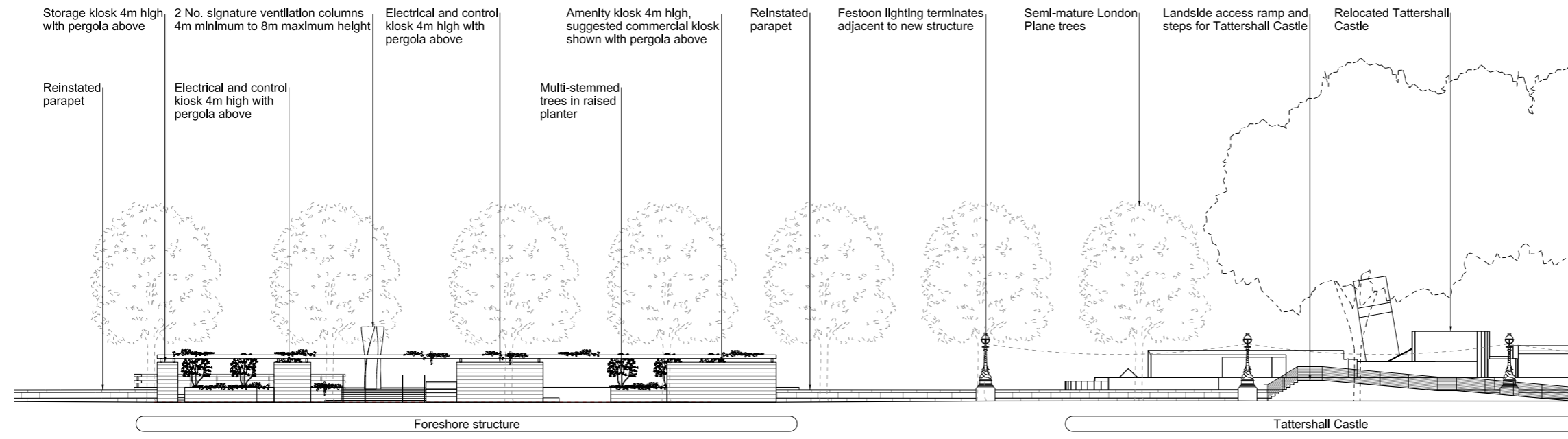


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:
1. All dimensions and levels are approximate.

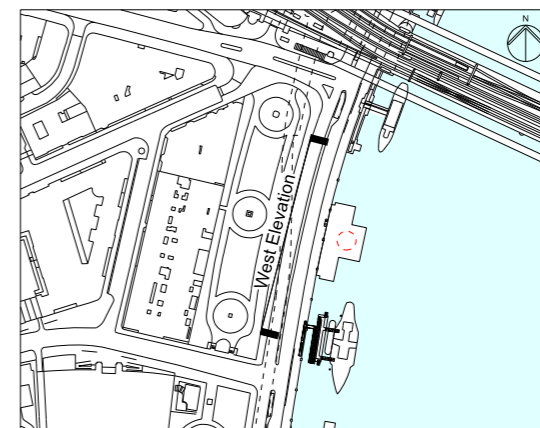


As existing West elevation



ILLUSTRATIVE

Proposed West elevation



Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
As existing and proposed
West elevation
Book of plans - section 18
DCO-PP-16X-VCTEF-180019
January 2013



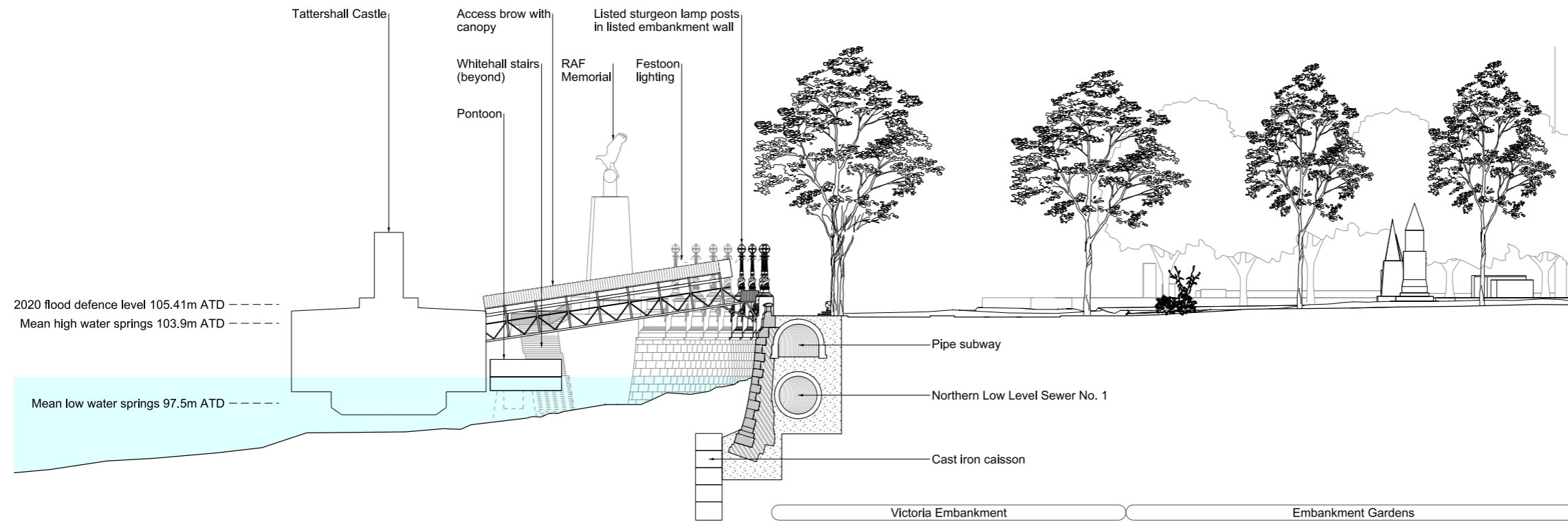
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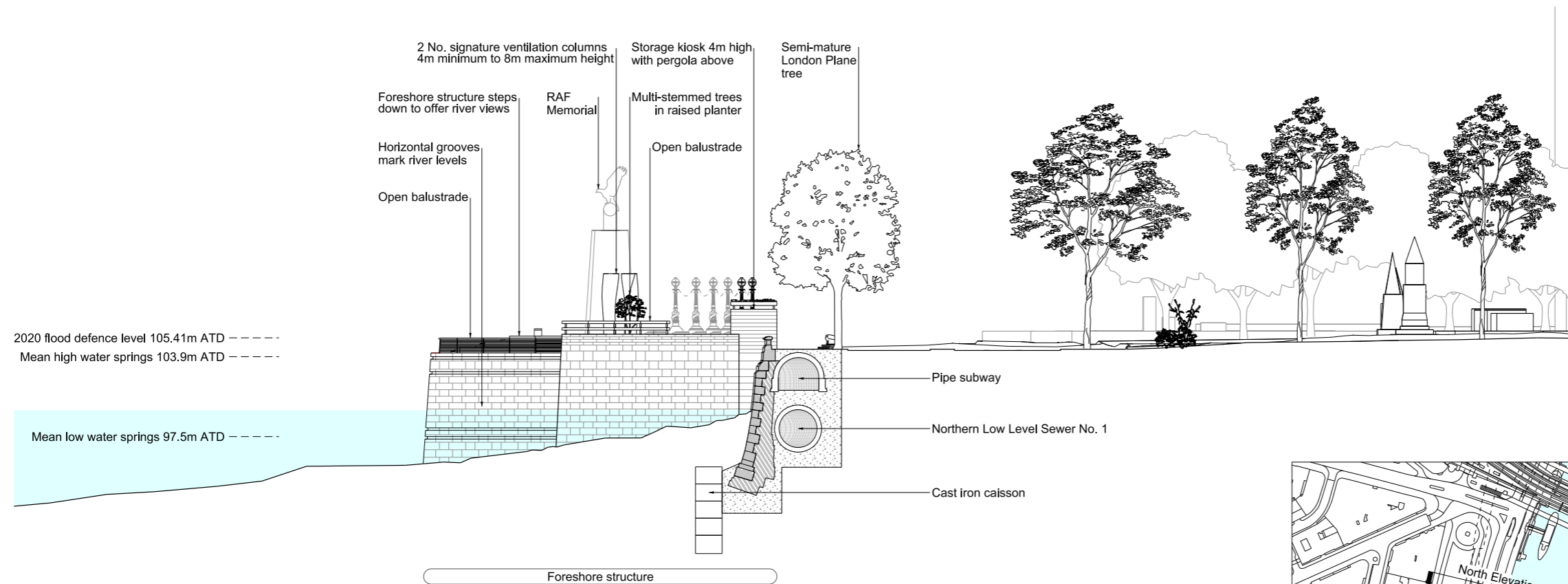
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

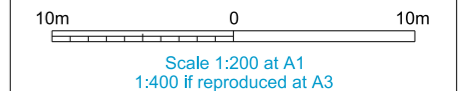
1. All dimensions and levels are approximate.



As existing North elevation



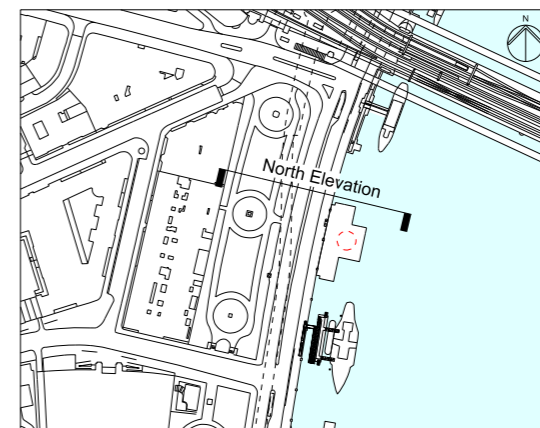
Proposed North elevation



ILLUSTRATIVE

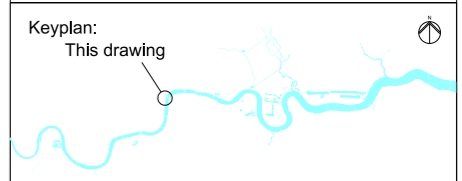
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
As existing
And proposed north elevation
Book of plans - section 18
DCO-PP-16X-VCTEF-180020
January 2013



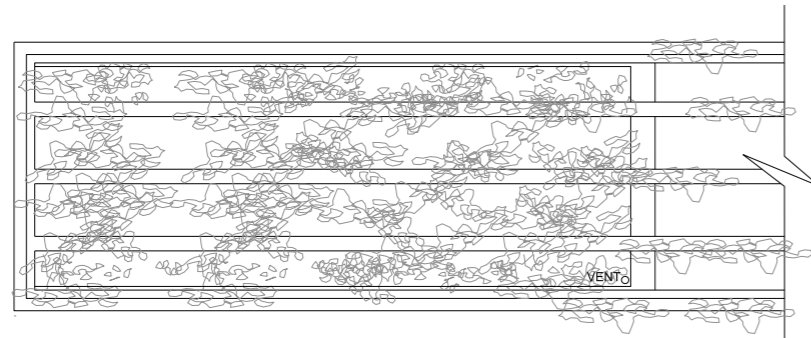


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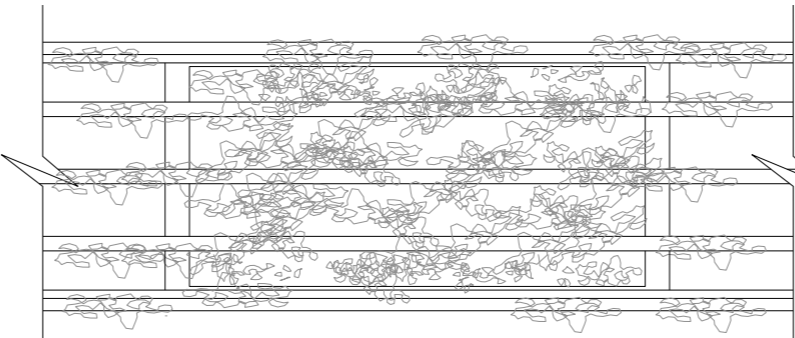


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

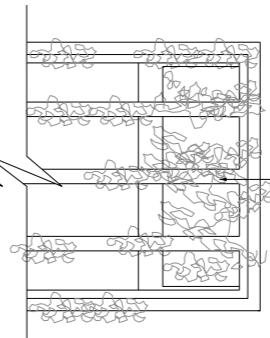
Notes:
1. All dimensions and levels are approximate.



Amenities building - Suggested commercial kiosk plan

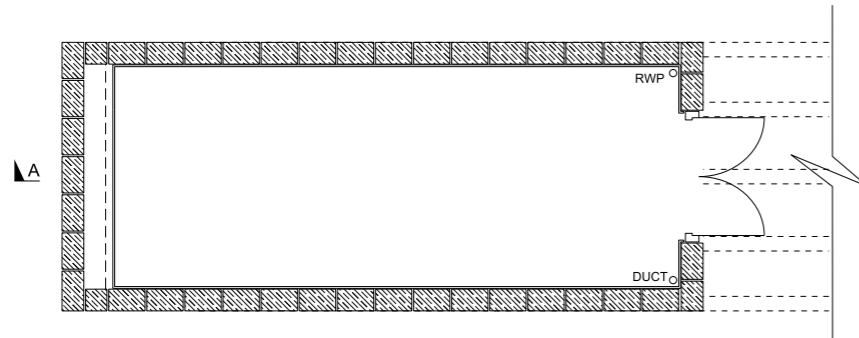


Typical central electrical and control kiosk roof plan

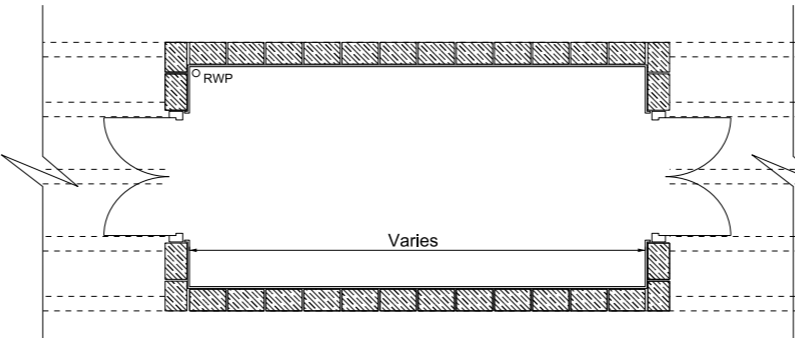


Storage kiosk roof plan

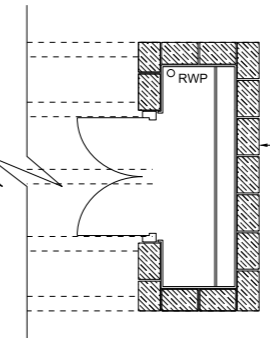
Planted pergola to top of kiosk



Amenities building - Suggested commercial kiosk plan

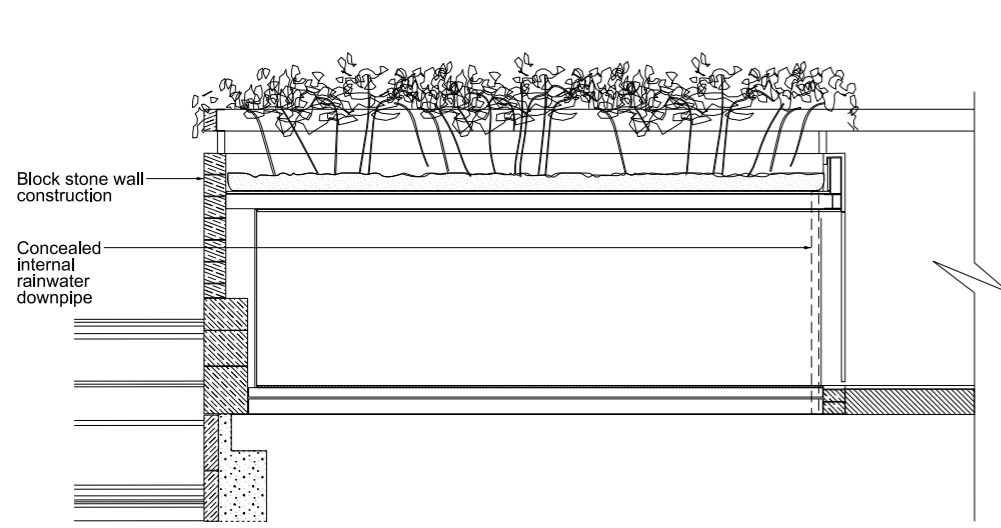


Typical central electrical and control kiosk plan

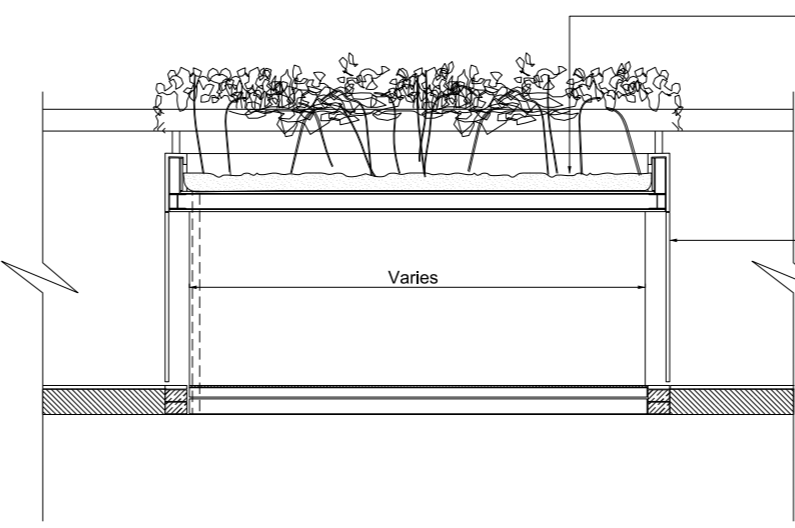


Storage kiosk plan

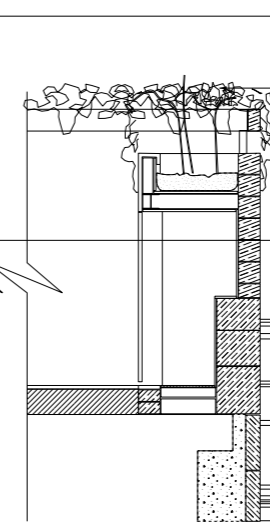
Block stone wall construction



Amenities building - Suggested commercial kiosk section A-A



Typical central electrical and control kiosk section A-A



Storage kiosk section A-A

Planted brown roof to top of kiosk

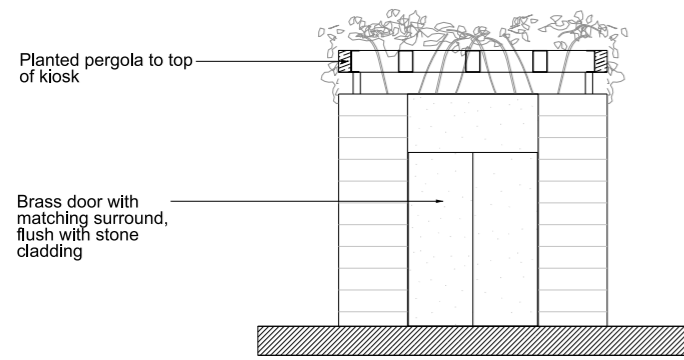
Planted pergola to top of kiosk

Brass door with matching surround, flush with stone cladding

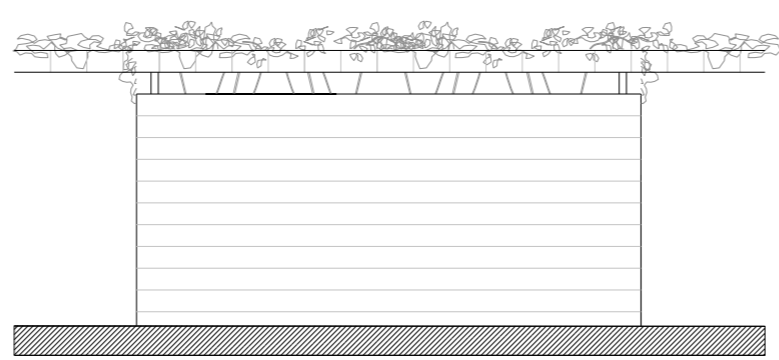


Scale 1:50 at A1
1:100 if reproduced at A3

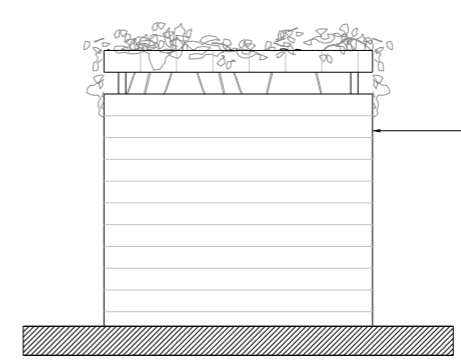
INDICATIVE



Typical end elevation (with door)



Typical side elevation



Typical end elevation

Stone finish to exterior of kiosk

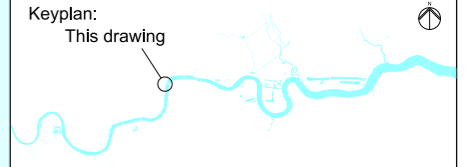
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Kiosk design intent

Book of plans - section 18
DCO-PP-16X-VCTEF-180021
January 2013



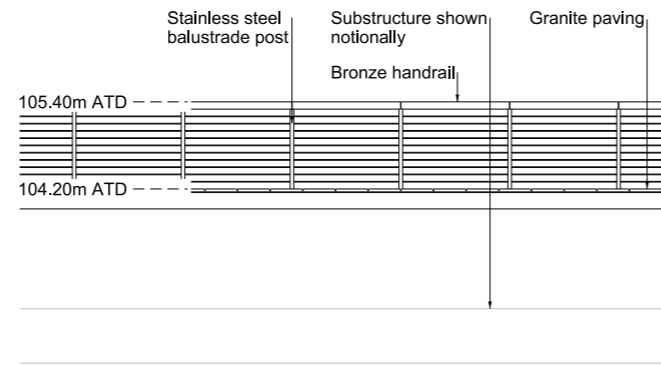
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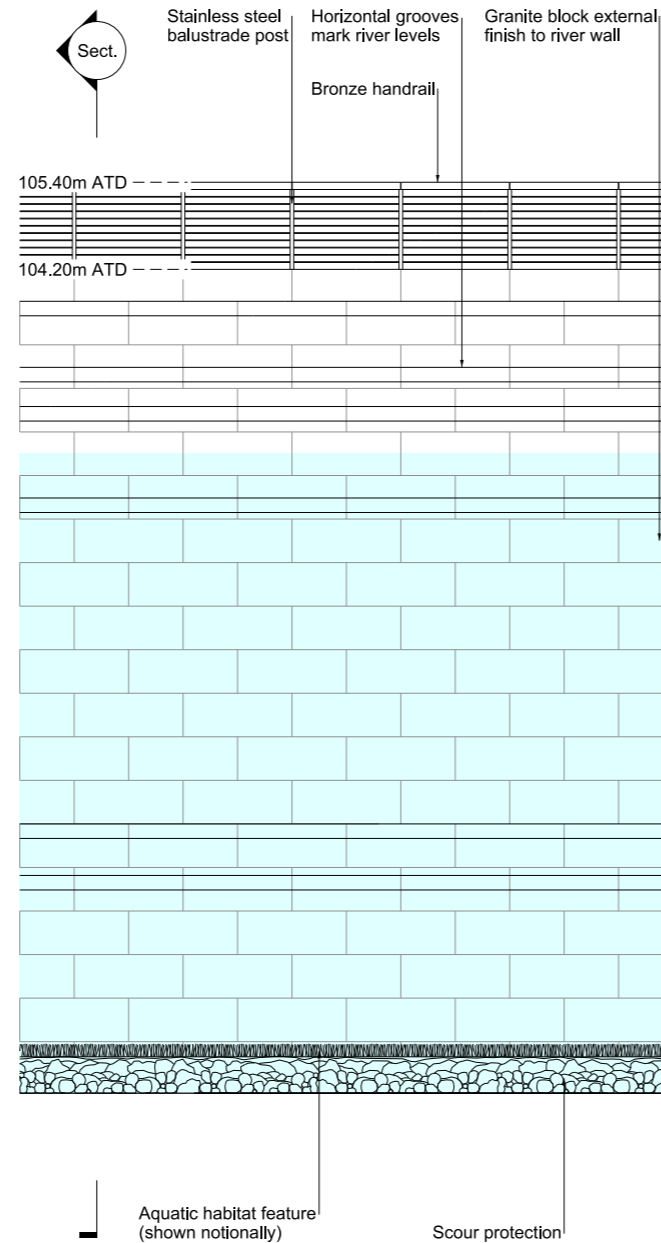
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

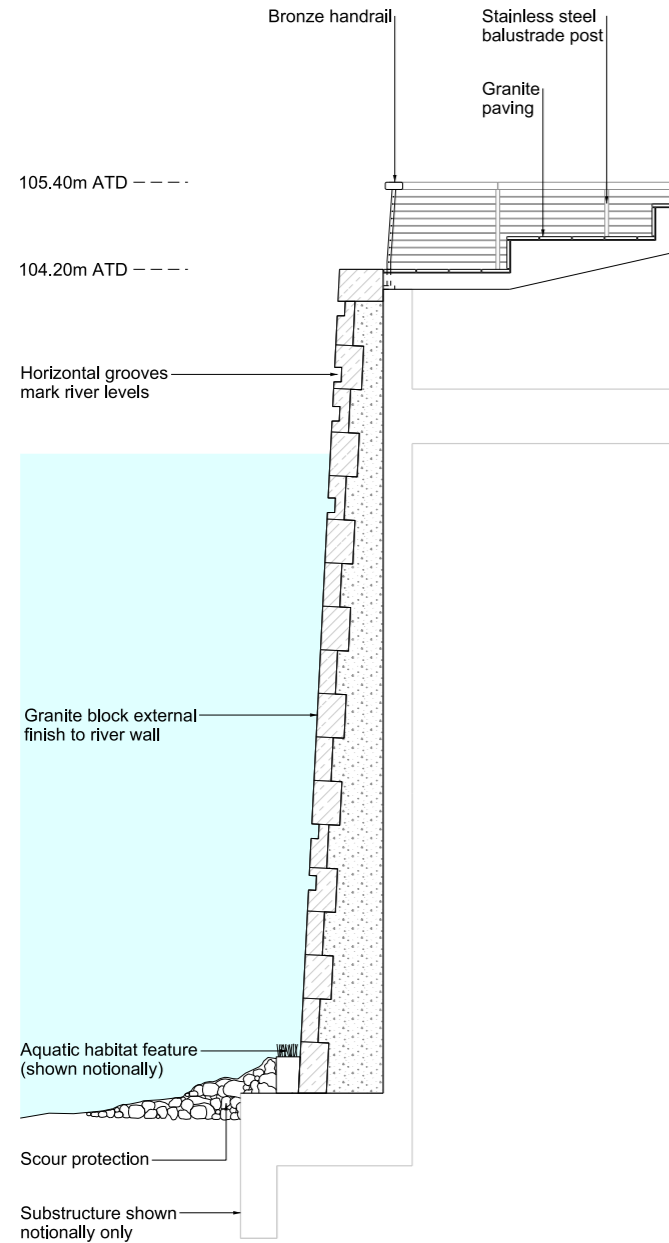
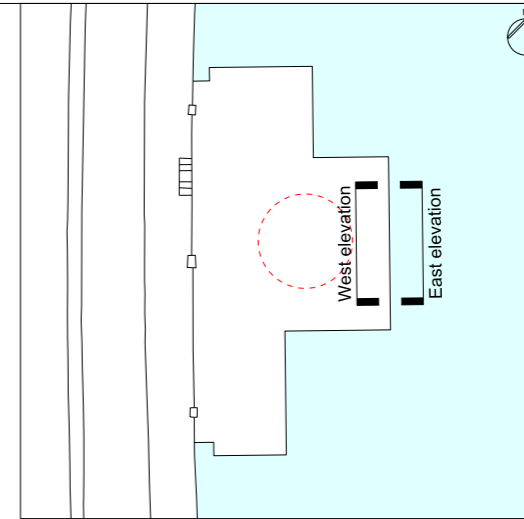
- 1. All dimensions and levels are approximate.



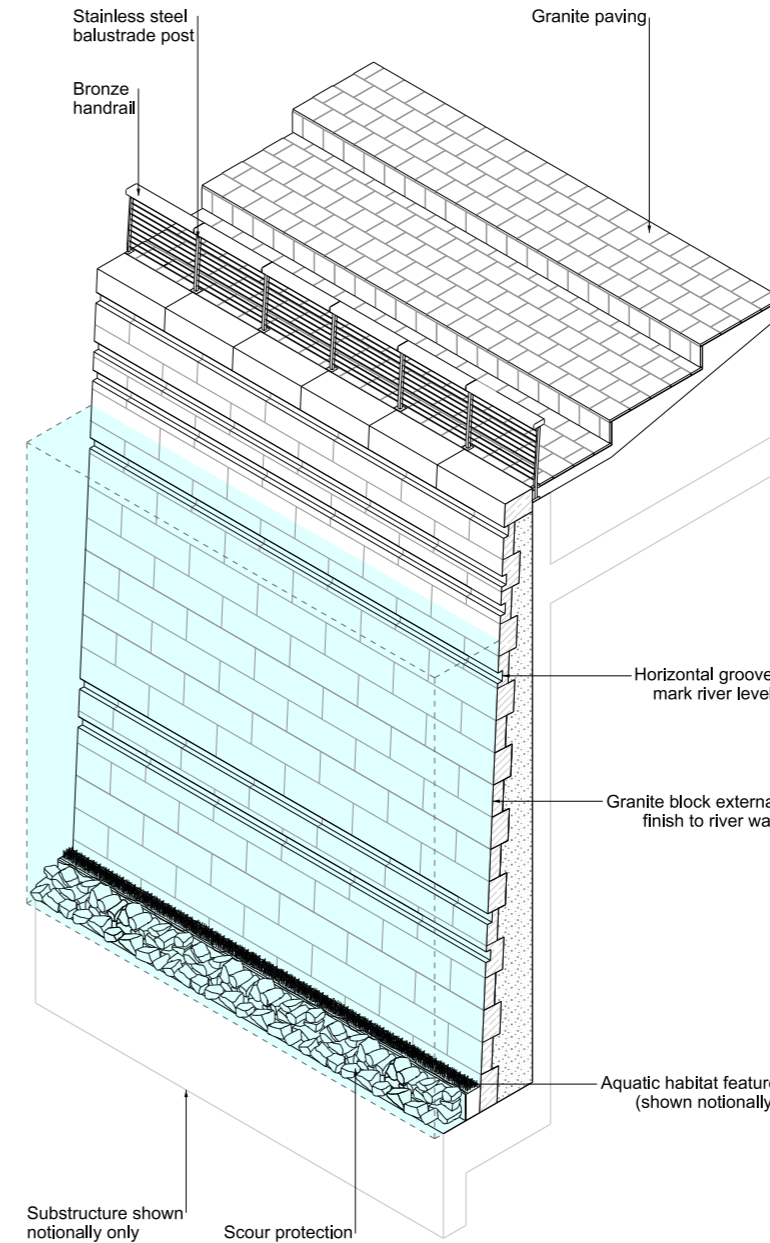
West elevation
Scale 1:50



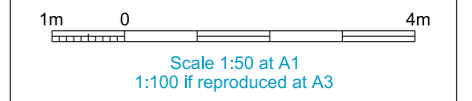
East Elevation
Scale 1:50



Detail section
Scale 1:50



Isometric
NTS

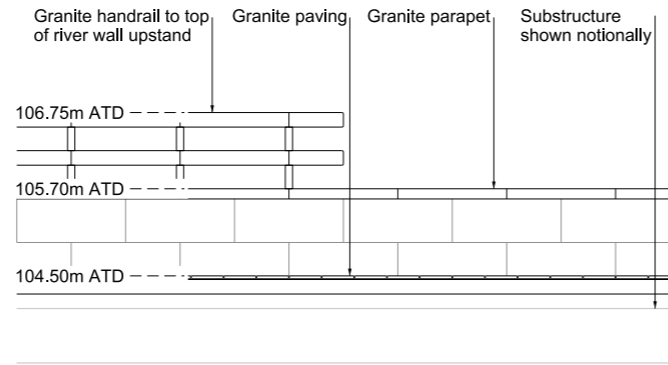


INDICATIVE

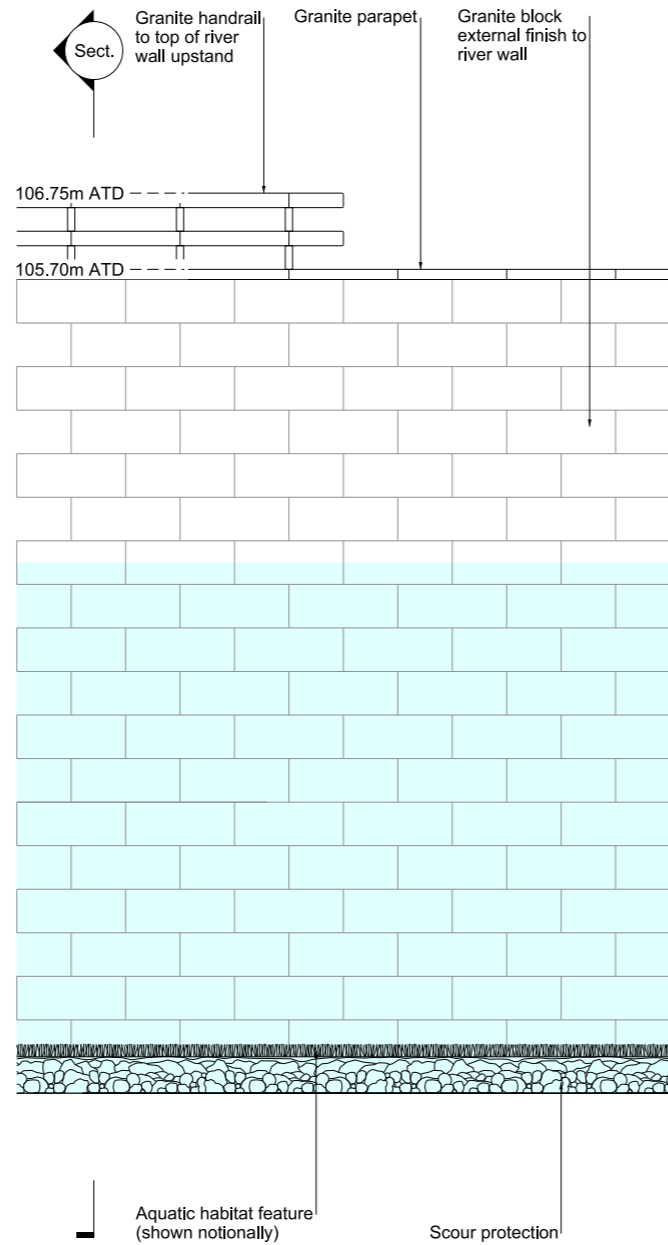
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
River wall design intent
Sheet 1 of 2
Book of plans - section 18
DCO-PP-16X-VCTEF-180022
January 2013

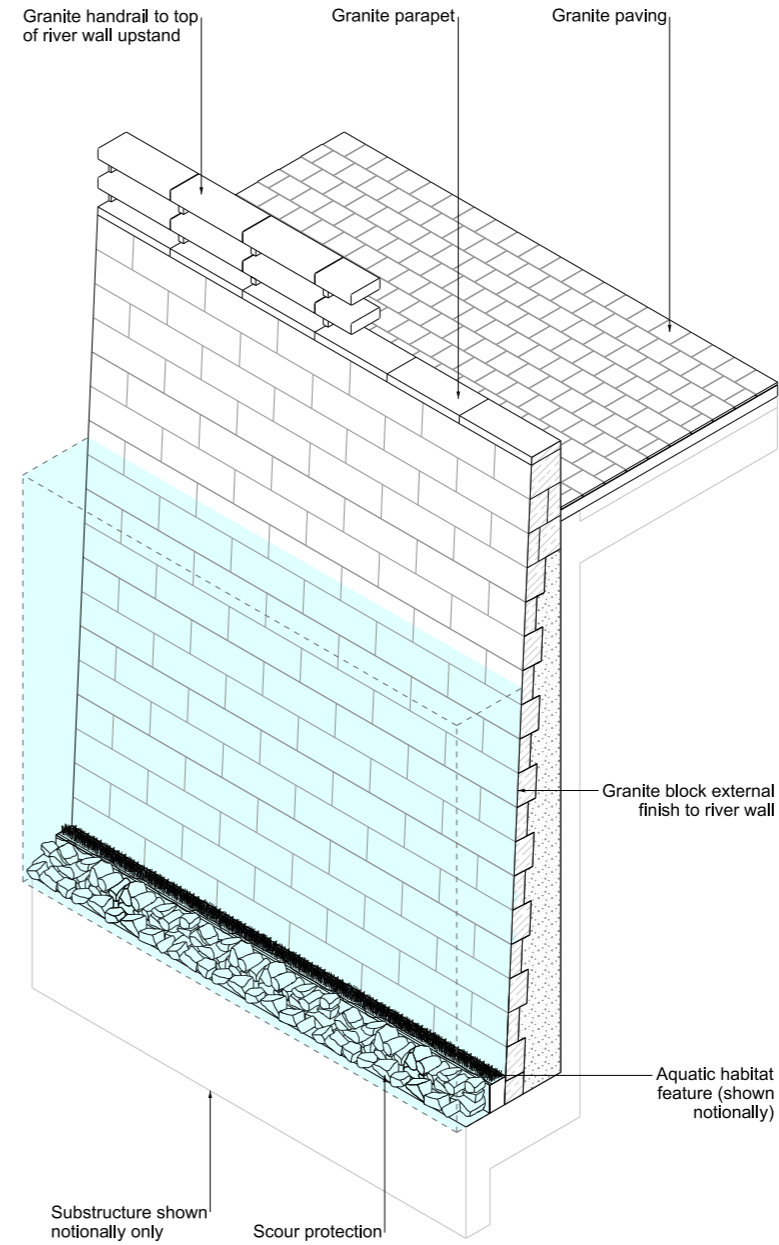




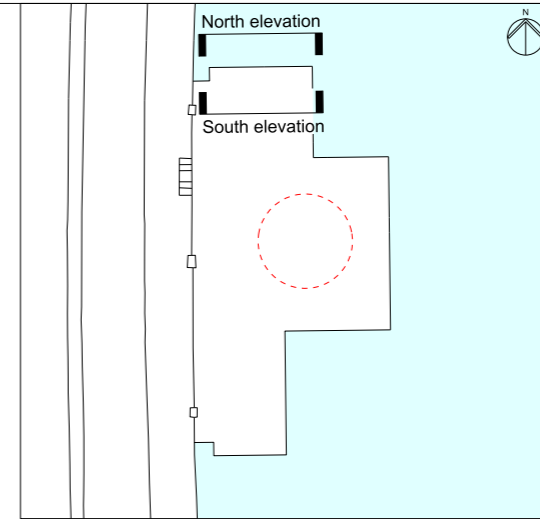
South elevation
Scale 1:50



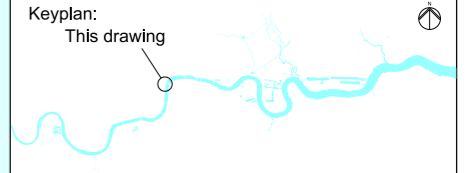
North Elevation
Scale 1:50



Isometric
NTS

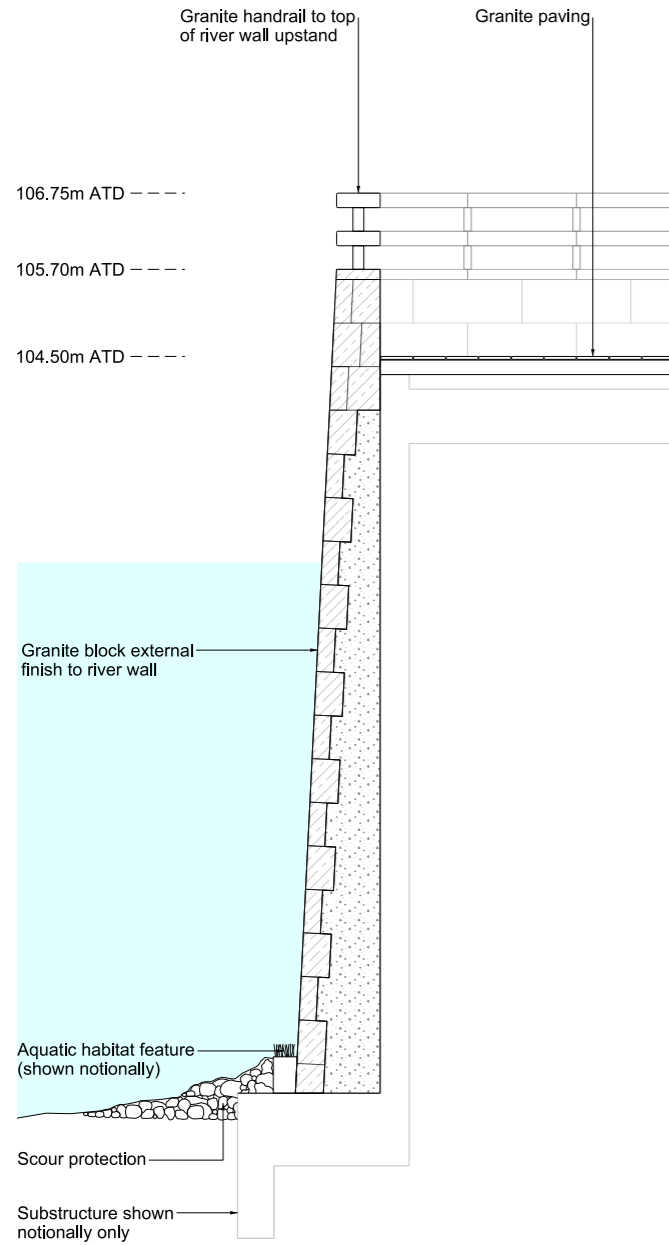


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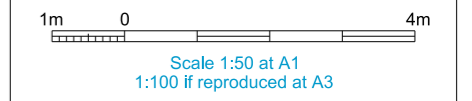


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:
1. All dimensions and levels are approximate.



Detail section
Scale 1:50



INDICATIVE

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
River wall design intent
Sheet 2 of 2
Book of plans - section 18
DCO-PP-16X-VCTEF-180023
January 2013



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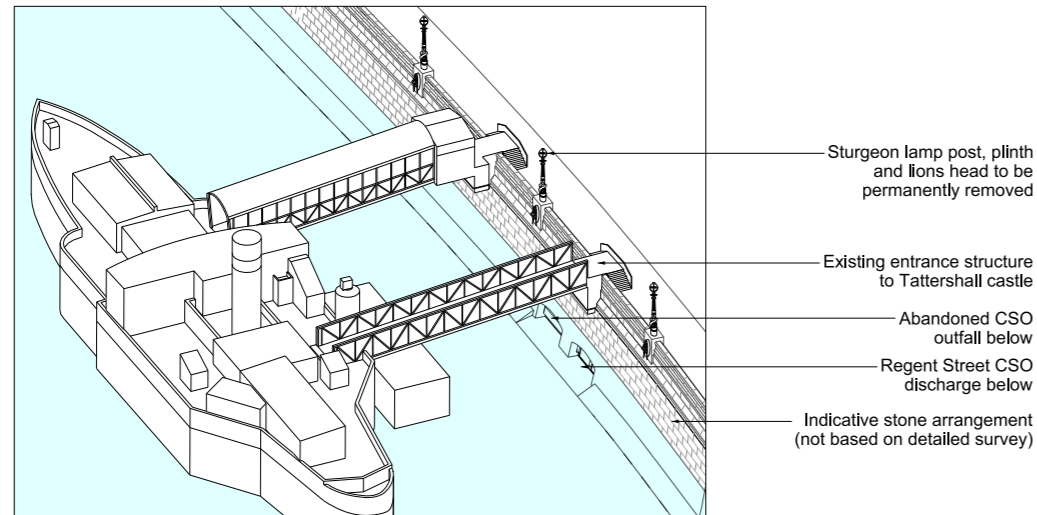
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

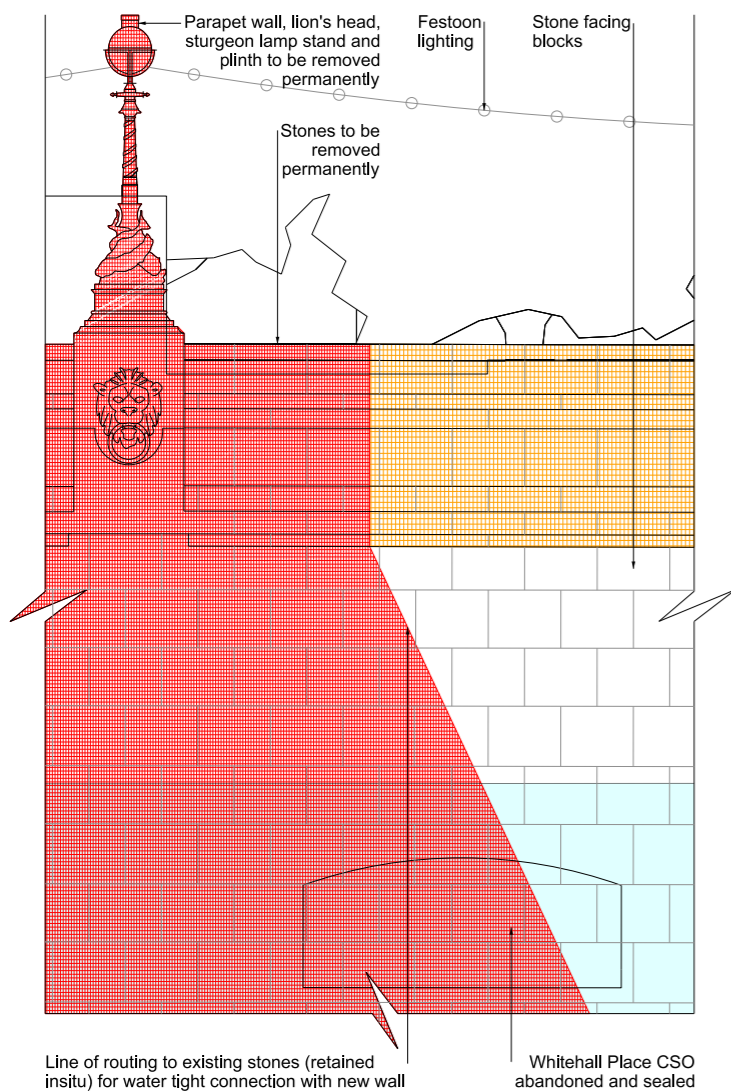
- Maximum temporary extent of loss of listed buildings / structures
- Maximum permanent extent of loss of listed buildings / structures

Notes:

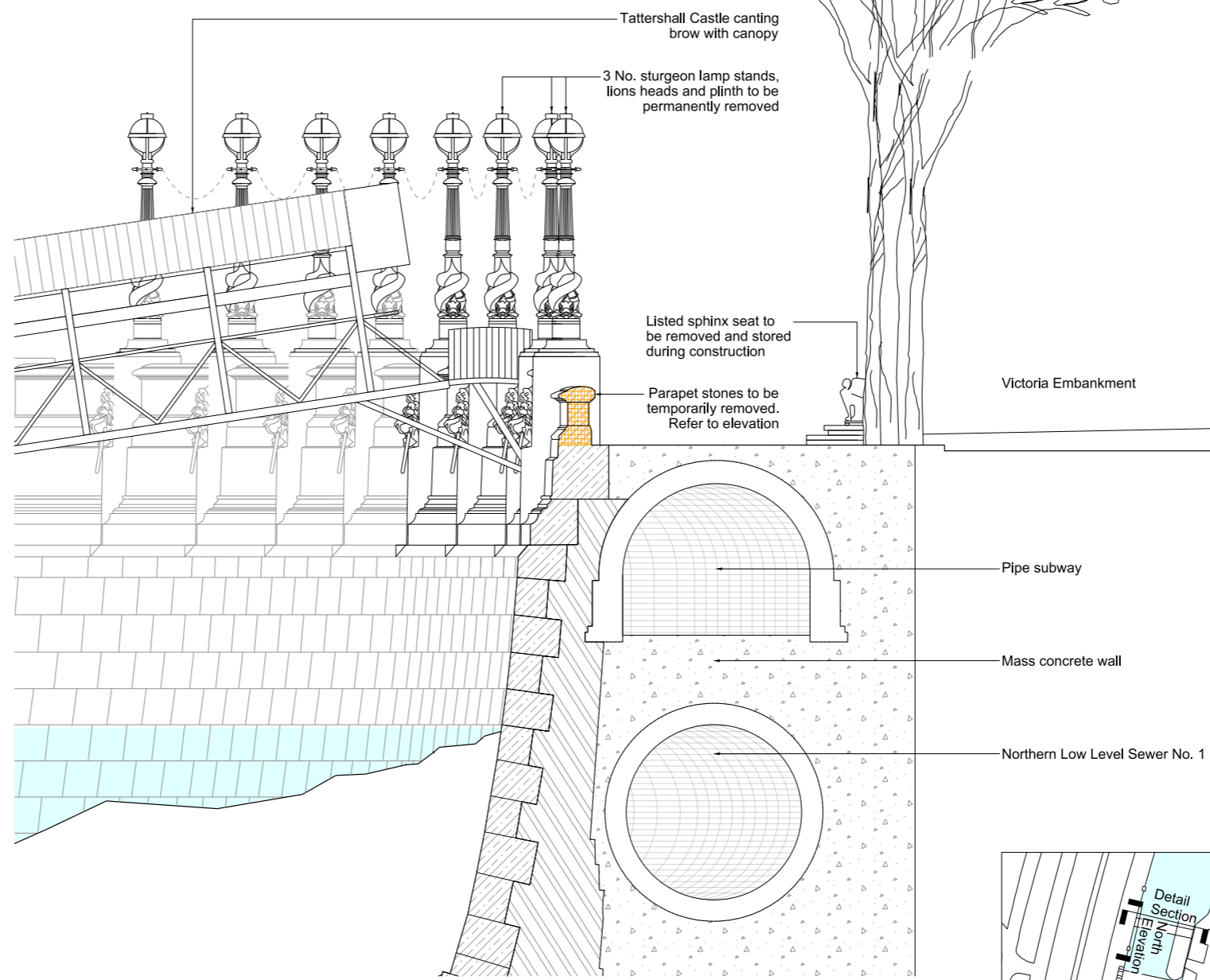
- All dimensions and levels are approximate.
- Drawing is based on as-constructed drawings and topographical survey and not on heritage survey.



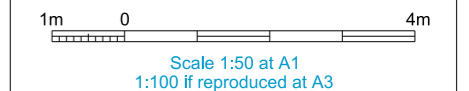
As existing North isometric
NTS



Existing North elevation
Scale 1:50



Existing detail section
Scale 1:50



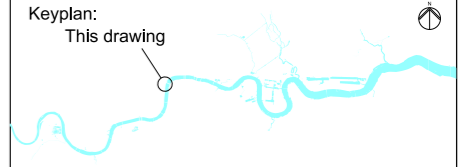
FOR INFORMATION

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
As existing listed structure interface - Foreshore structure
Book of plans - section 18
DCO-PP-16X-VCTEF-180024
January 2013



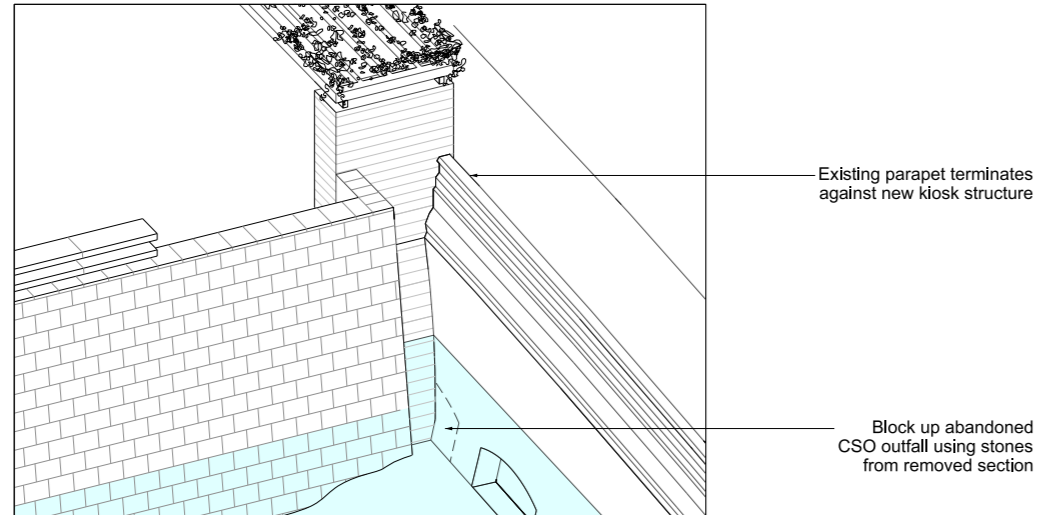
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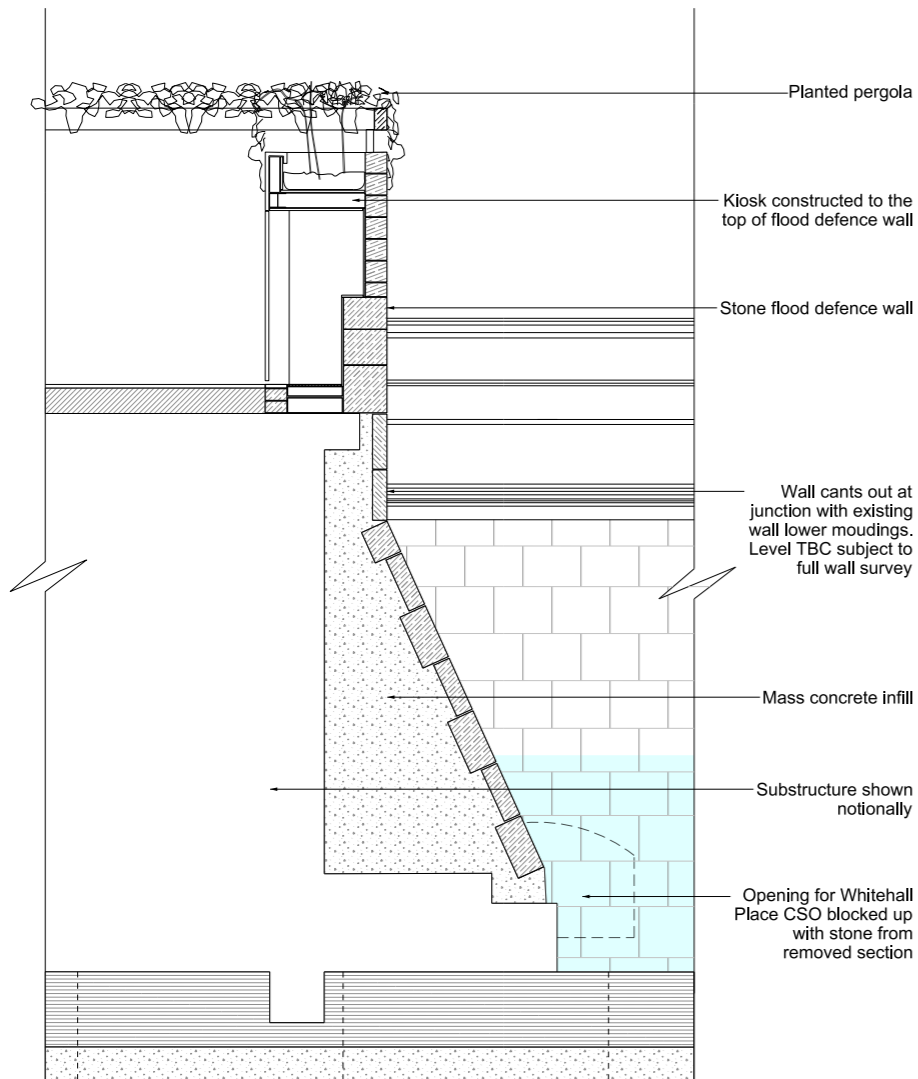
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

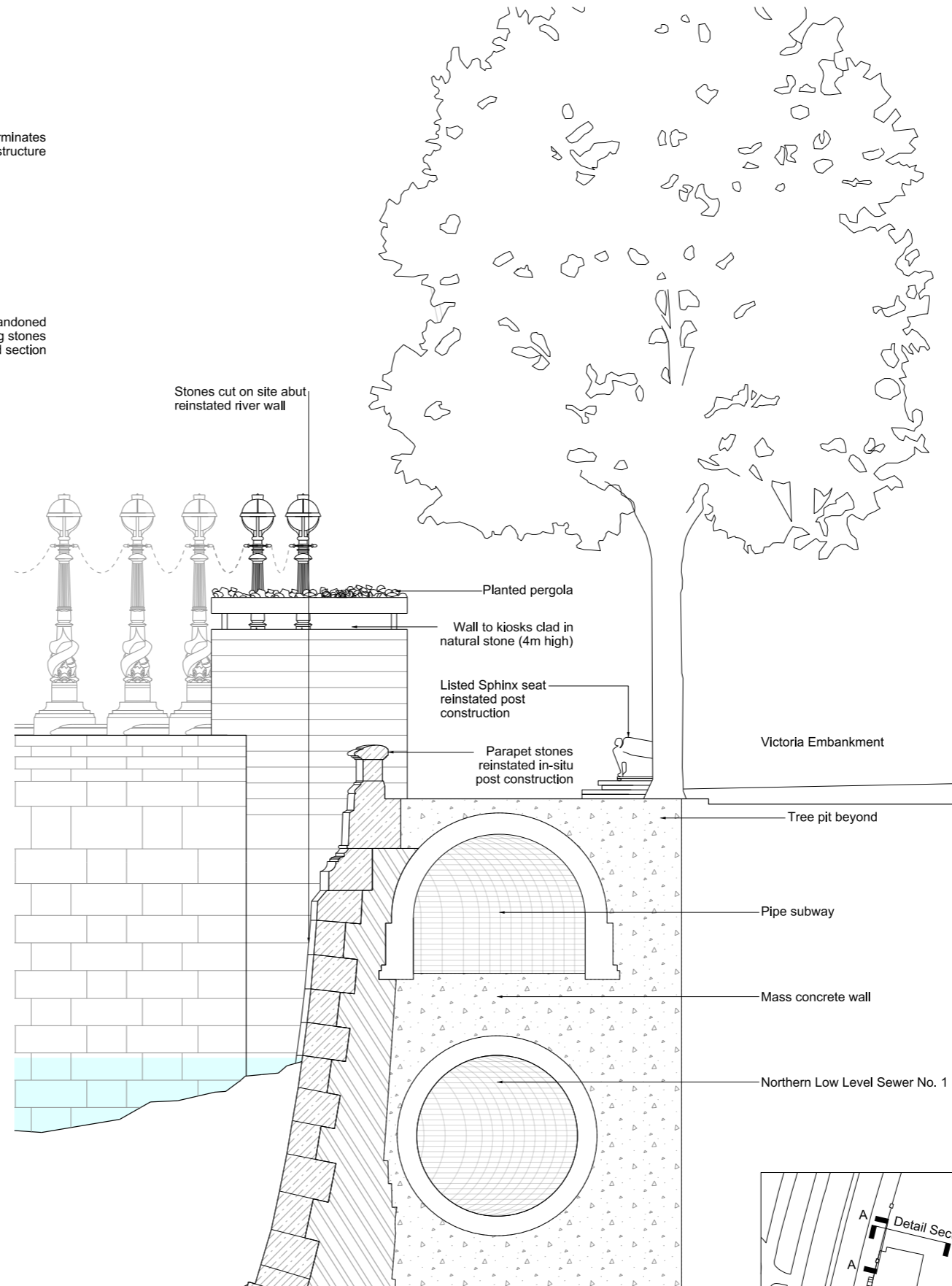
1. All dimensions and levels are approximate.
2. Drawing is based on as-constructed drawings and topographical survey and not on heritage survey.



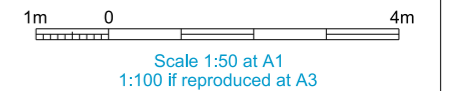
Proposed North isometric
NTS



Proposed Section AA showing wall elevation
Scale 1:50



Proposed detail section
Scale 1:50

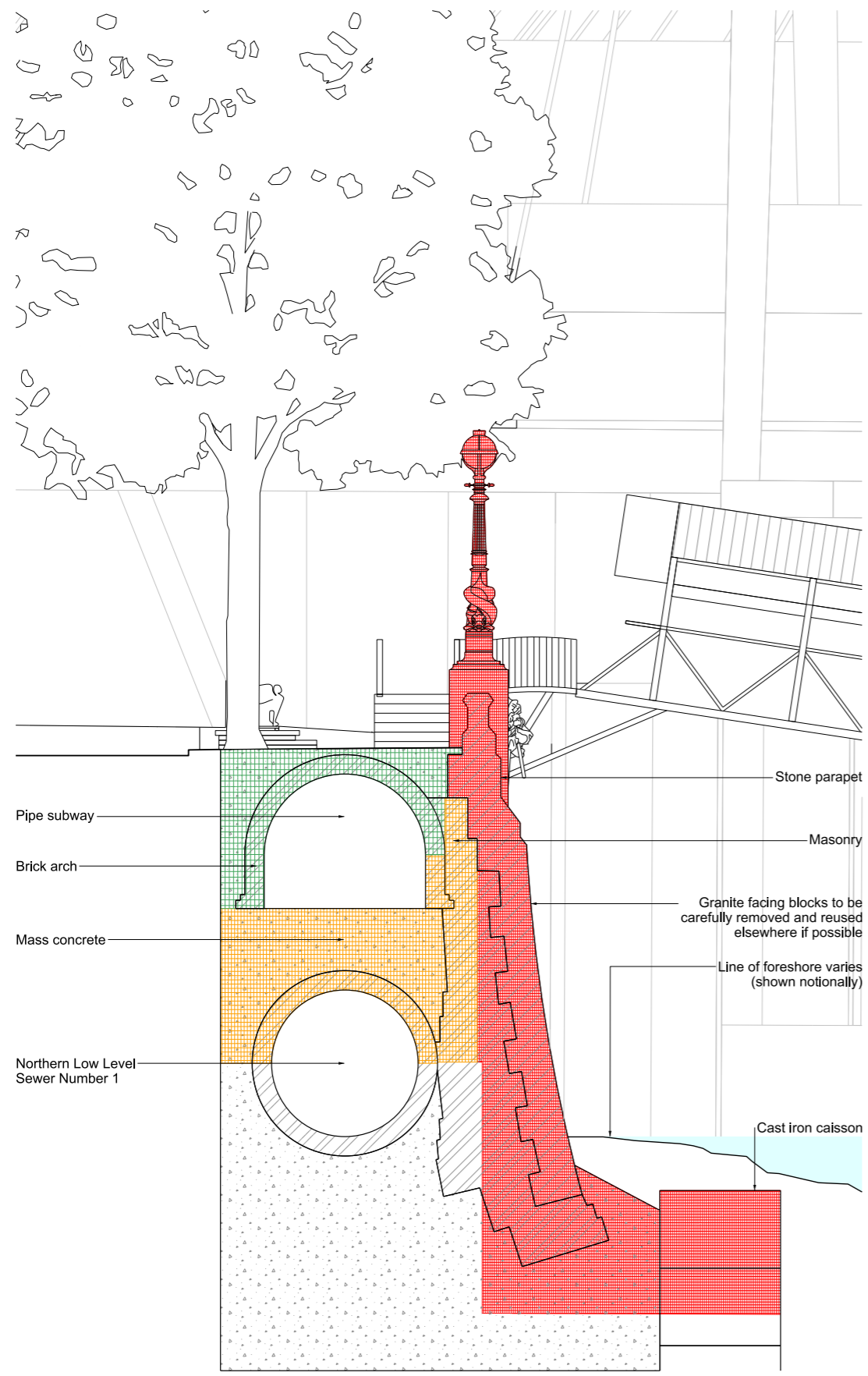


INDICATIVE

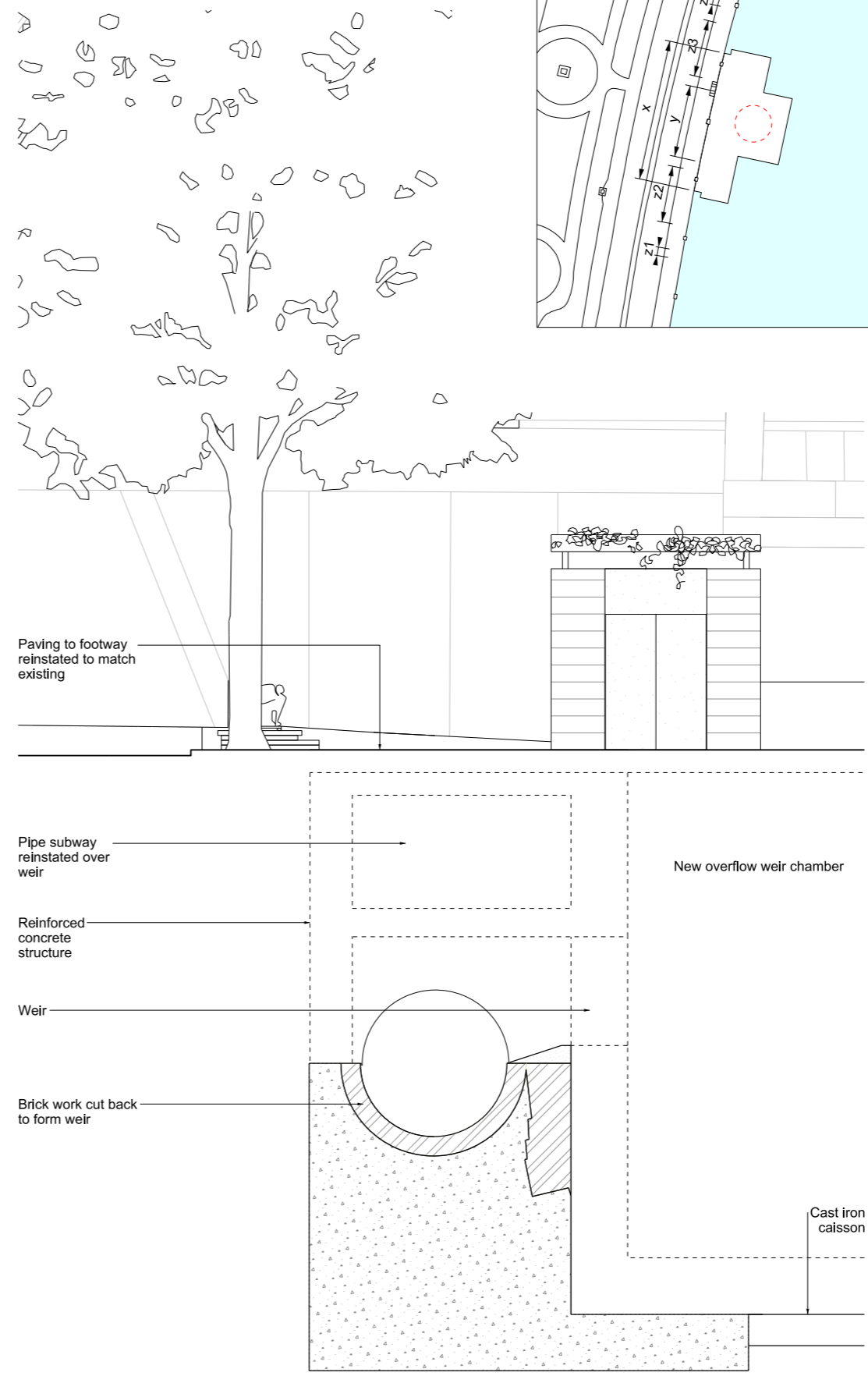
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Proposed listed structure interface -
Foreshore structure
Book of plans - section 18
DCO-PP-16X-VCTEF-180025
January 2013

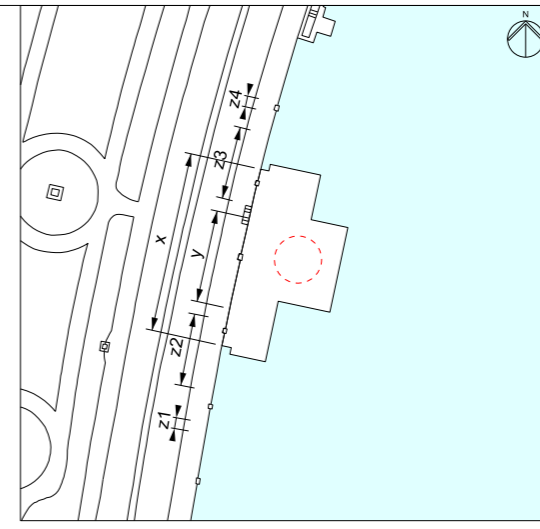




As existing section AA



Proposed section AA



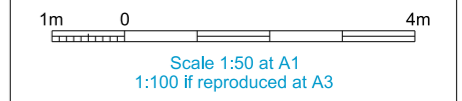
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Permanent removal along length x
 - Permanent removal along length y
 - Permanent removal along length y plus temporary removal and reinstatement along length z1 - z4

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



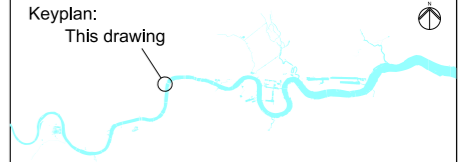
INDICATIVE

Location
Victoria Embankment Foreshore
 City of Westminster

Document Information
Application for Development Consent
 As existing and proposed listed
 Interface weir construction structure
 Book of plans - section 18
 DCO-PP-16X-VCTEF-180026
 January 2013



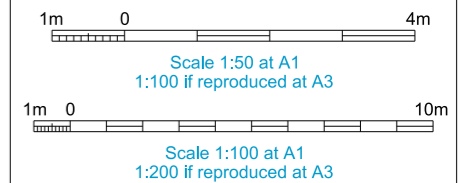
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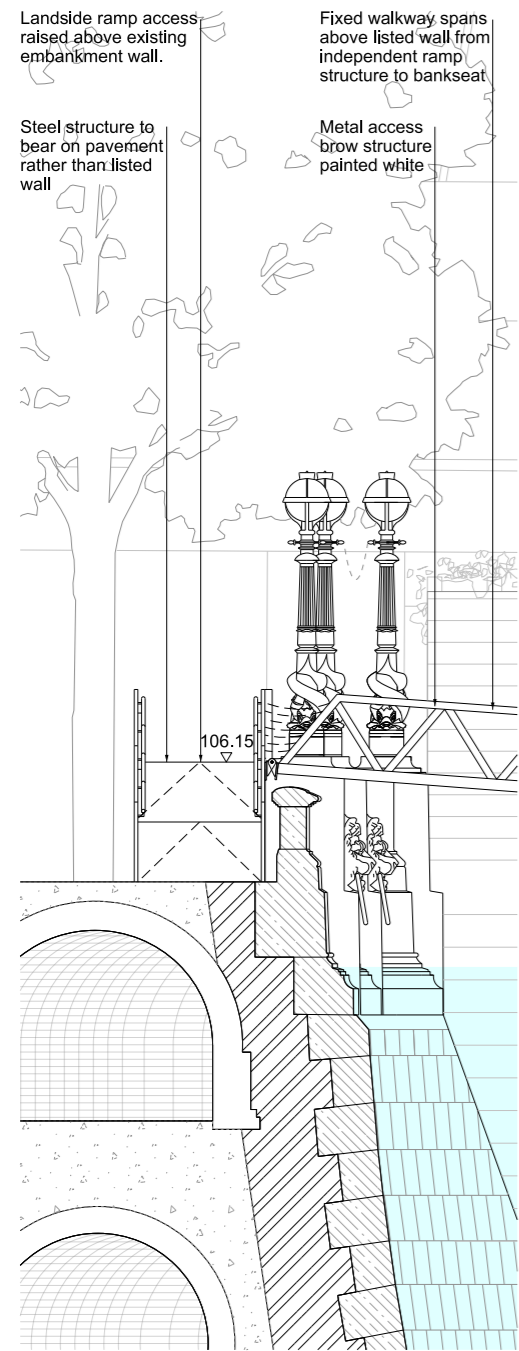
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

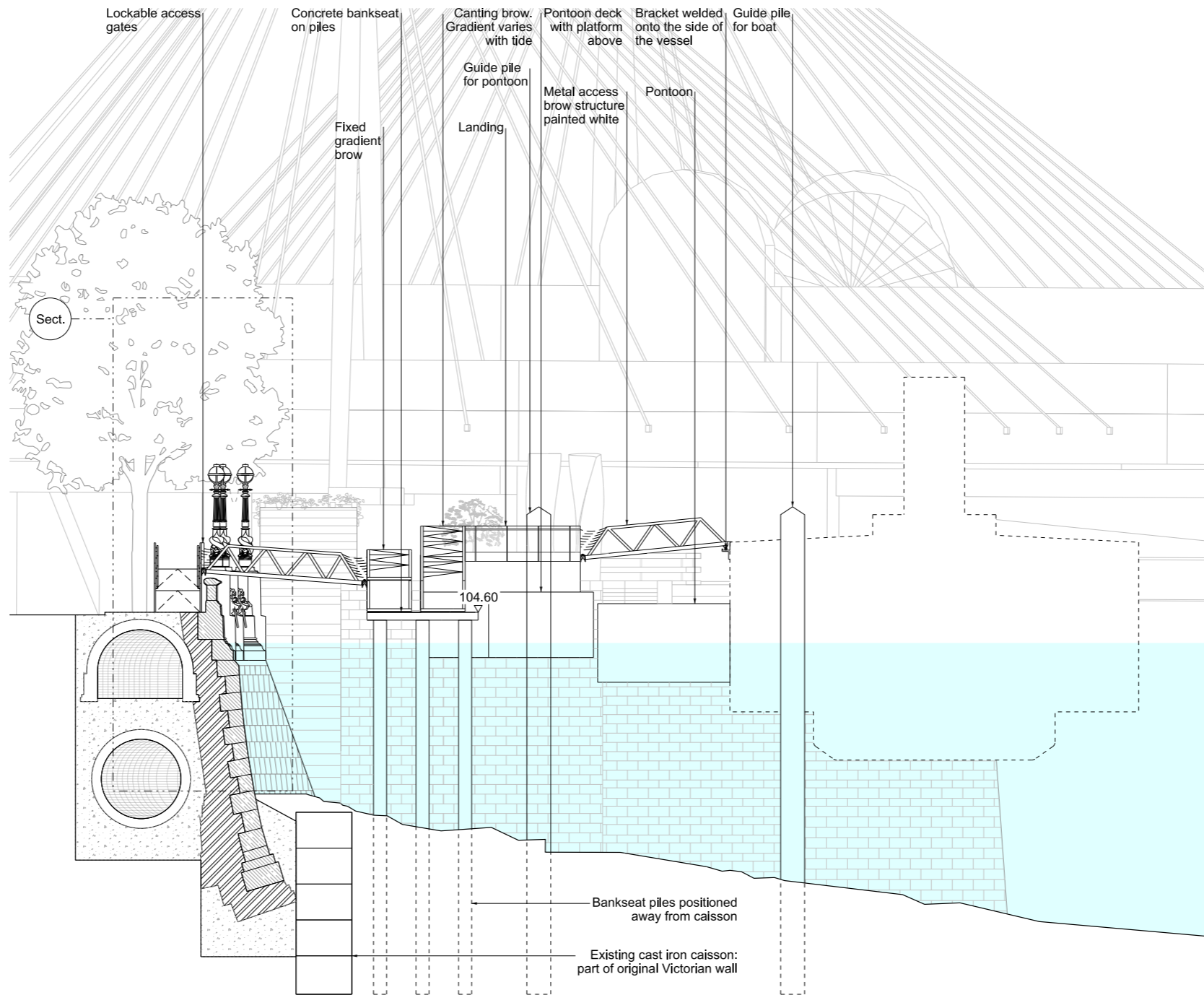
1. All dimensions and levels are approximate.



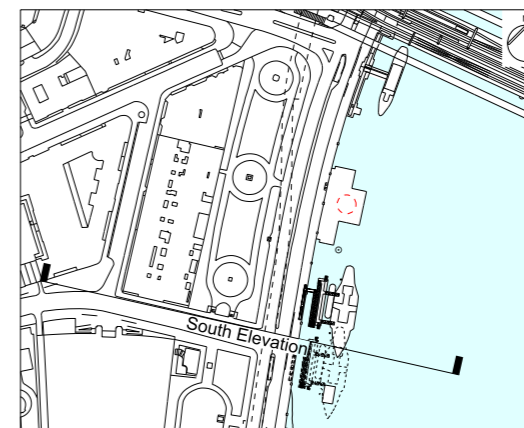
ILLUSTRATIVE
Save for the detail of spanning the listed wall which is for approval



Detail section
(in both temporary and permanent cases)
Scale 1:50
See proposed landscape plan sheet 2 of 2 for location details



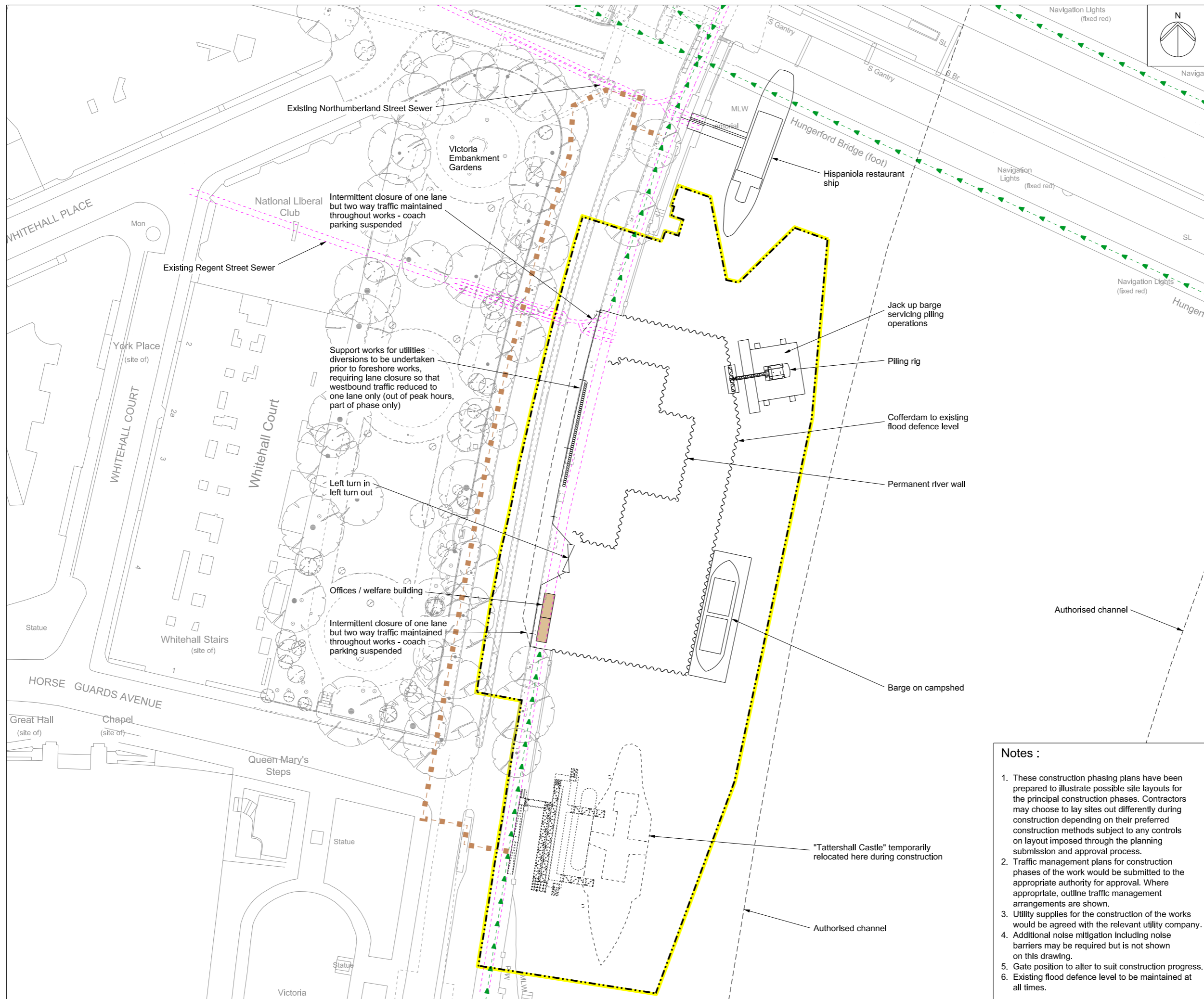
Proposed South elevation at high tide
Scale 1:100



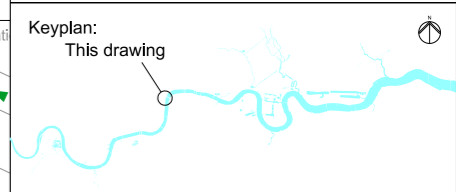
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Proposed
Mooring access details
Book of plans - section 18
DCO-PP-16X-VCTEF-180027
January 2013





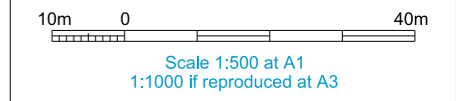
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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
	Secant piles installed



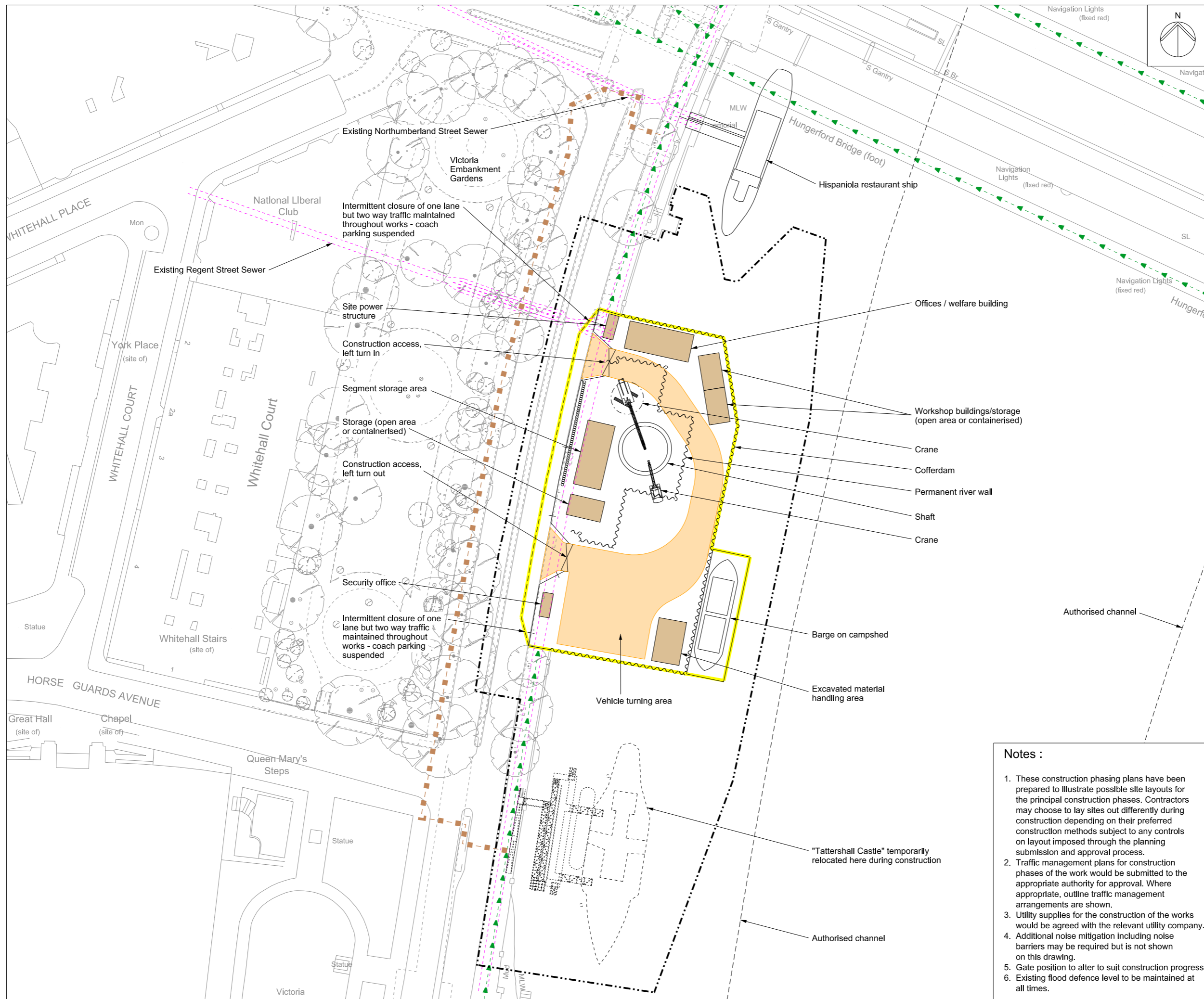
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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 level to be maintained at all times.

ILLUSTRATIVE

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Construction phases - phase 1
Site setup
Book of plans - section 18
DCO-PP-16X-VCTEF-180028
January 2013





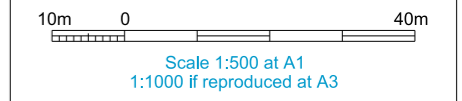
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Keyplan:
This drawing

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:

	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
	Secant piles installed



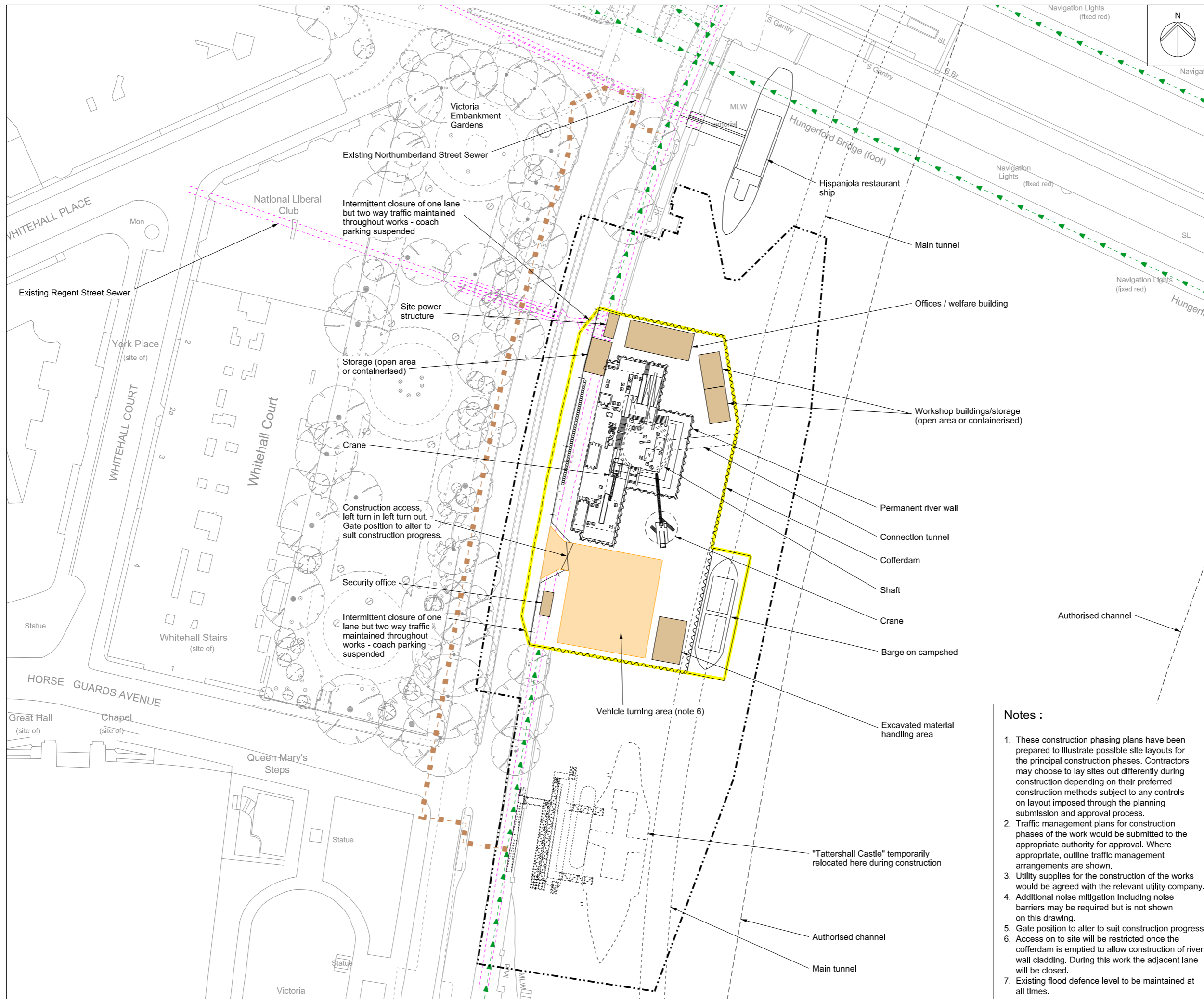
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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 level to be maintained at all times.

ILLUSTRATIVE

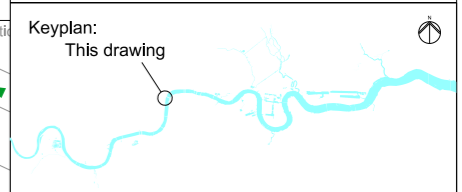
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Construction phases - phase 2
Shaft construction and tunnelling
Book of plans - section 18
DCO-PP-16X-VCTEF-180029
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



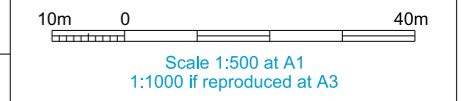
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

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



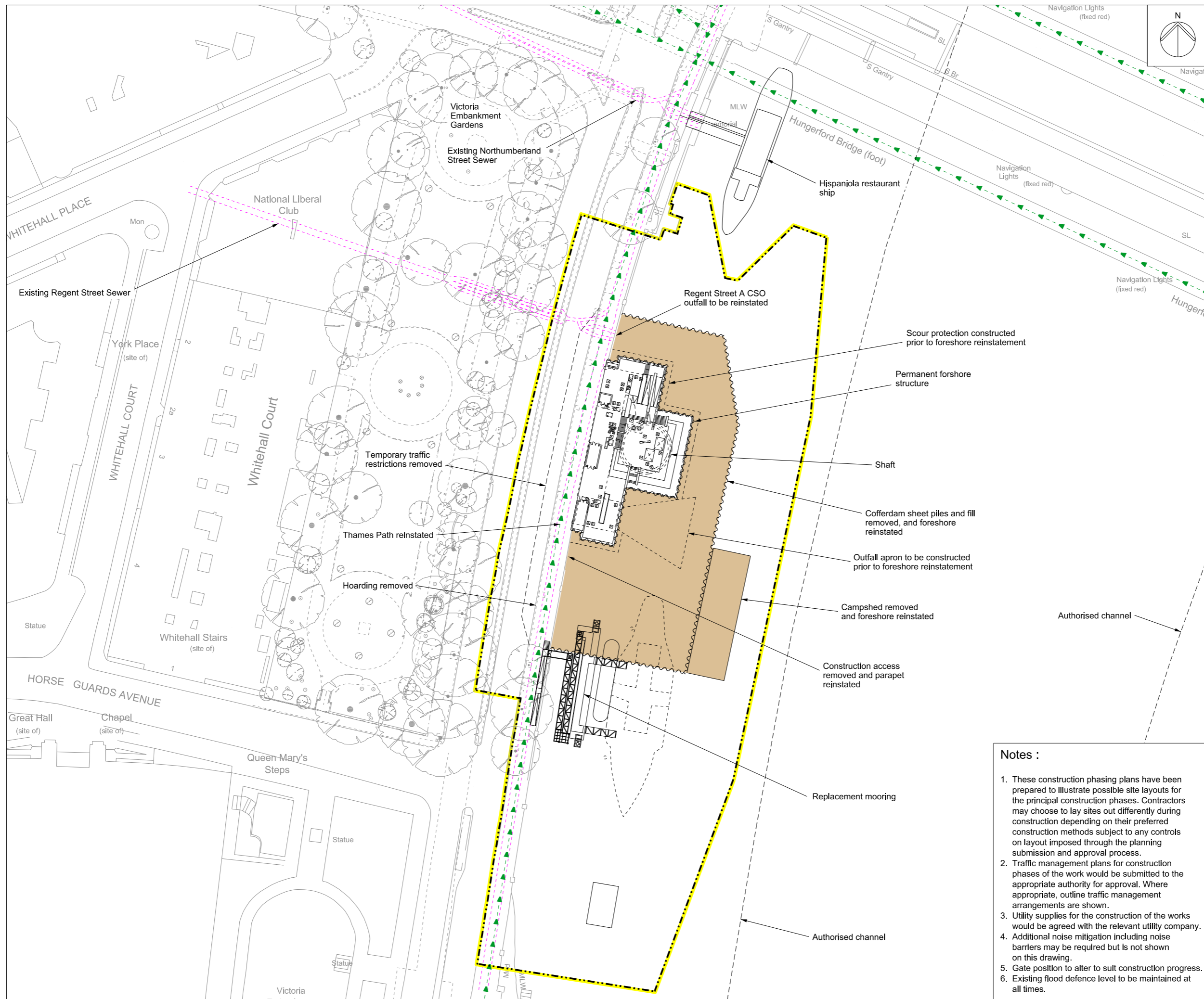
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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. Access on to site will be restricted once the cofferdam is emptied to allow construction of river wall cladding. During this work the adjacent lane will be closed.
 7. Existing flood defence level to be maintained at all times.

ILLUSTRATIVE

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Construction phases - phase 3
Construction of other structures
Book of plans - section 18
DCO-PP-16X-VCTEF-180030
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:

- Limits of land to be acquired or used (LLAU)
- Maximum extent of working area
- Existing public right of way
- Existing sewers
- ~ Sheet piles

10m 0 40m

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

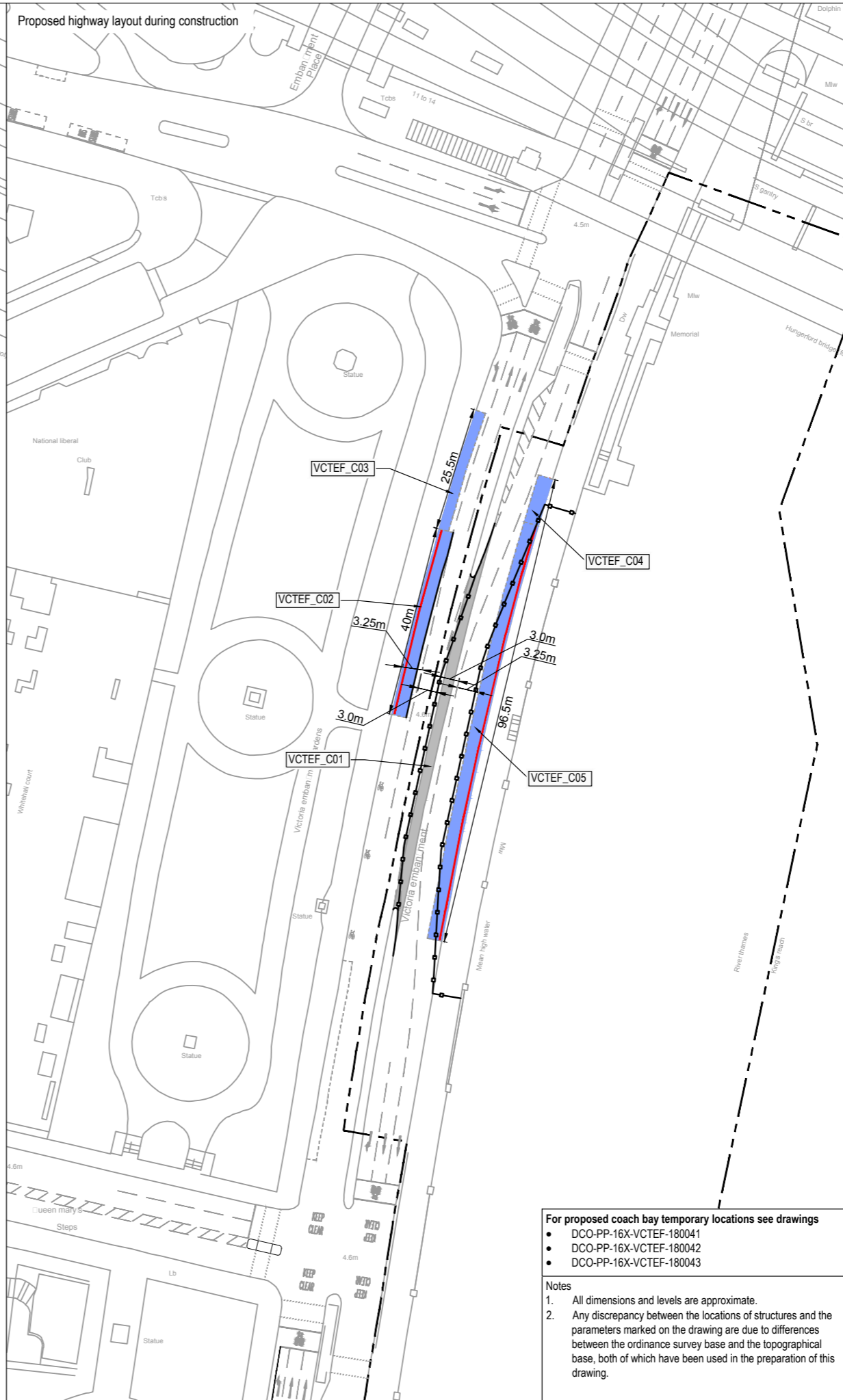
ILLUSTRATIVE

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Construction phases - phase 4
Site demobilisation
Book of plans - section 18
DCO-PP-16X-VCTEF-180031
January 2013



- Notes :**
- These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
 - Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 - Utility supplies for the construction of the works would be agreed with the relevant utility company.
 - Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
 - Gate position to alter to suit construction progress.
 - Existing flood defence level to be maintained at all times.



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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 stop / stand
- Pedestrian crossing
- Cycle lane / advance stop line

Revised

- L.L.A.U.
- Removal of central reserve
- Temporary restriction to on-street parking
- VCTEF_C01 See schedule of works
- Traffic barrier

On street parking

Solo motorcycle solo motorcycles only at all times	Coach parking buses & coaches only mon - fri 8:30am - 6:30pm sat 8:30am - 1:30pm max stay 2 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 phase

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

ILLUSTRATIVE

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Highway layout during utility diversion

DCO-PP-16X-VCTEF-180039
January 2013

For proposed coach bay temporary locations see drawings

- DCO-PP-16X-VCTEF-180041
- DCO-PP-16X-VCTEF-180042
- DCO-PP-16X-VCTEF-180043

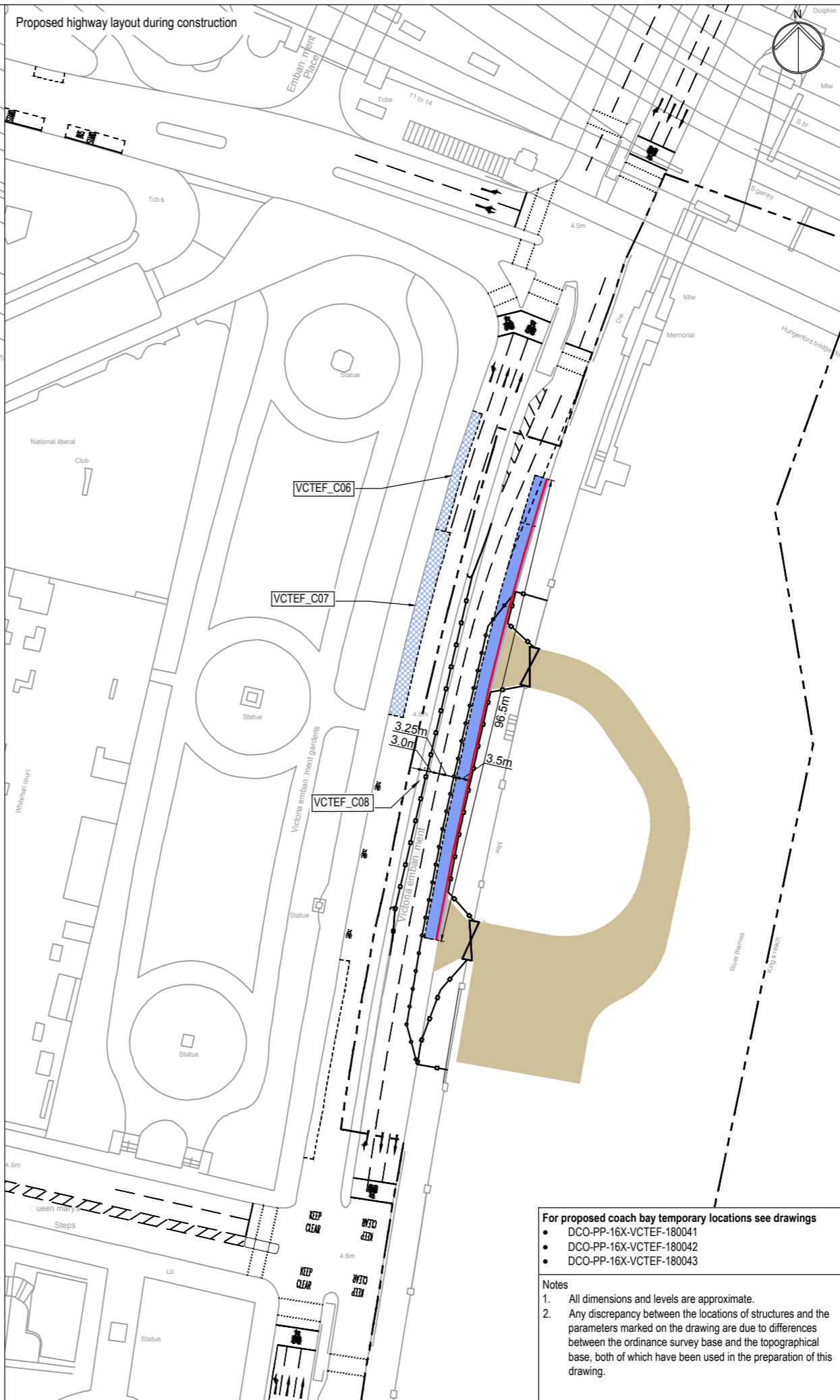
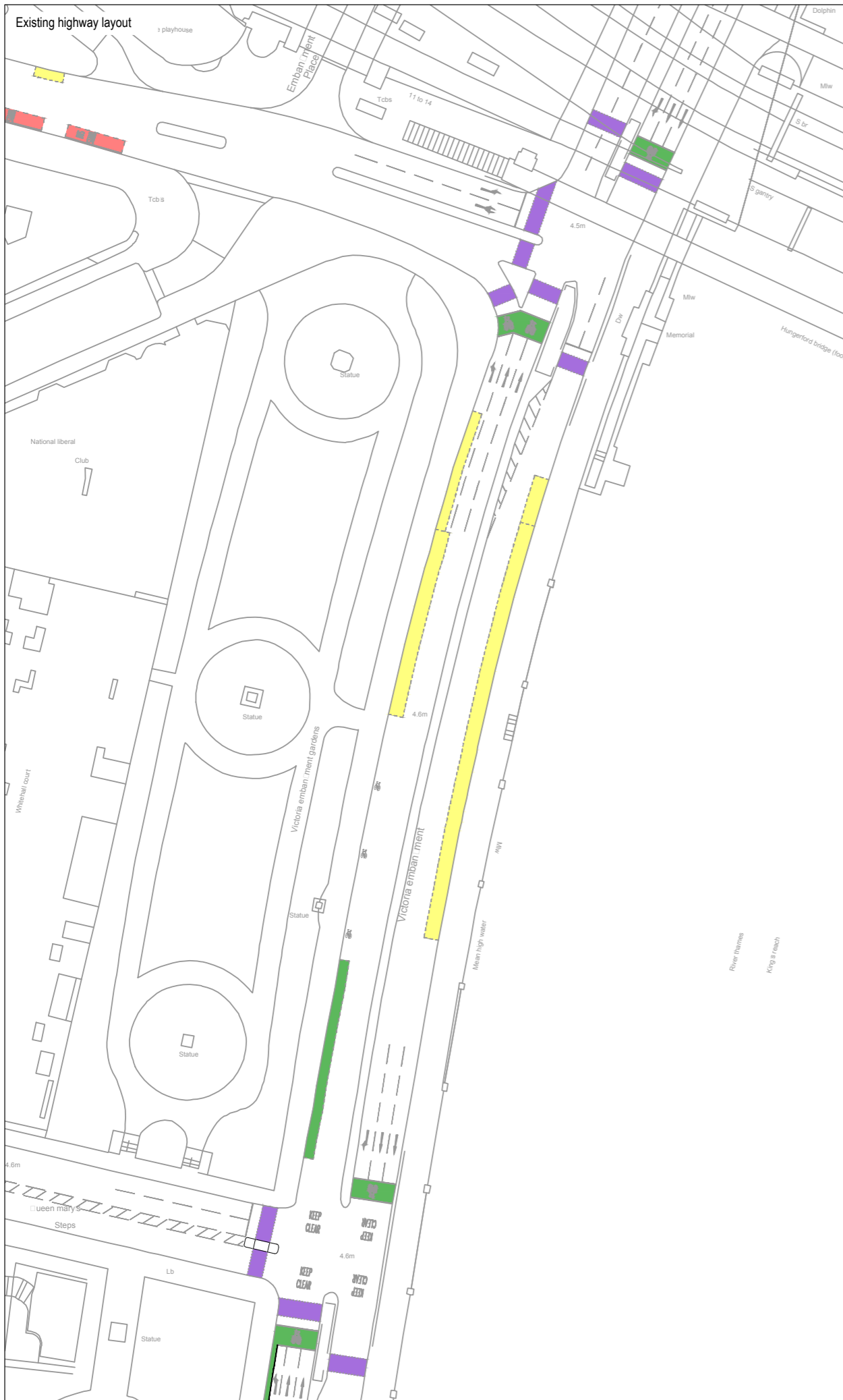
Notes

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

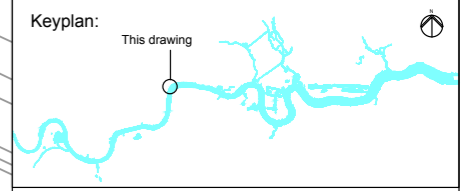
© Thames Water Utilities Ltd 2008

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

Thames Water



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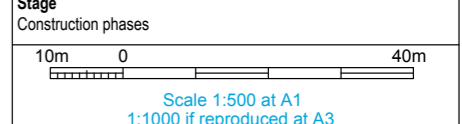
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

On street parking

Solo motorcycle solo motorcycles only at all times	Coach parking buses & coaches only mon - fri 8:30am - 6:30pm sat 8:30am - 1:30pm max stay 2 hours no return within 1 hour
Loading bay max 20mins	

- 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

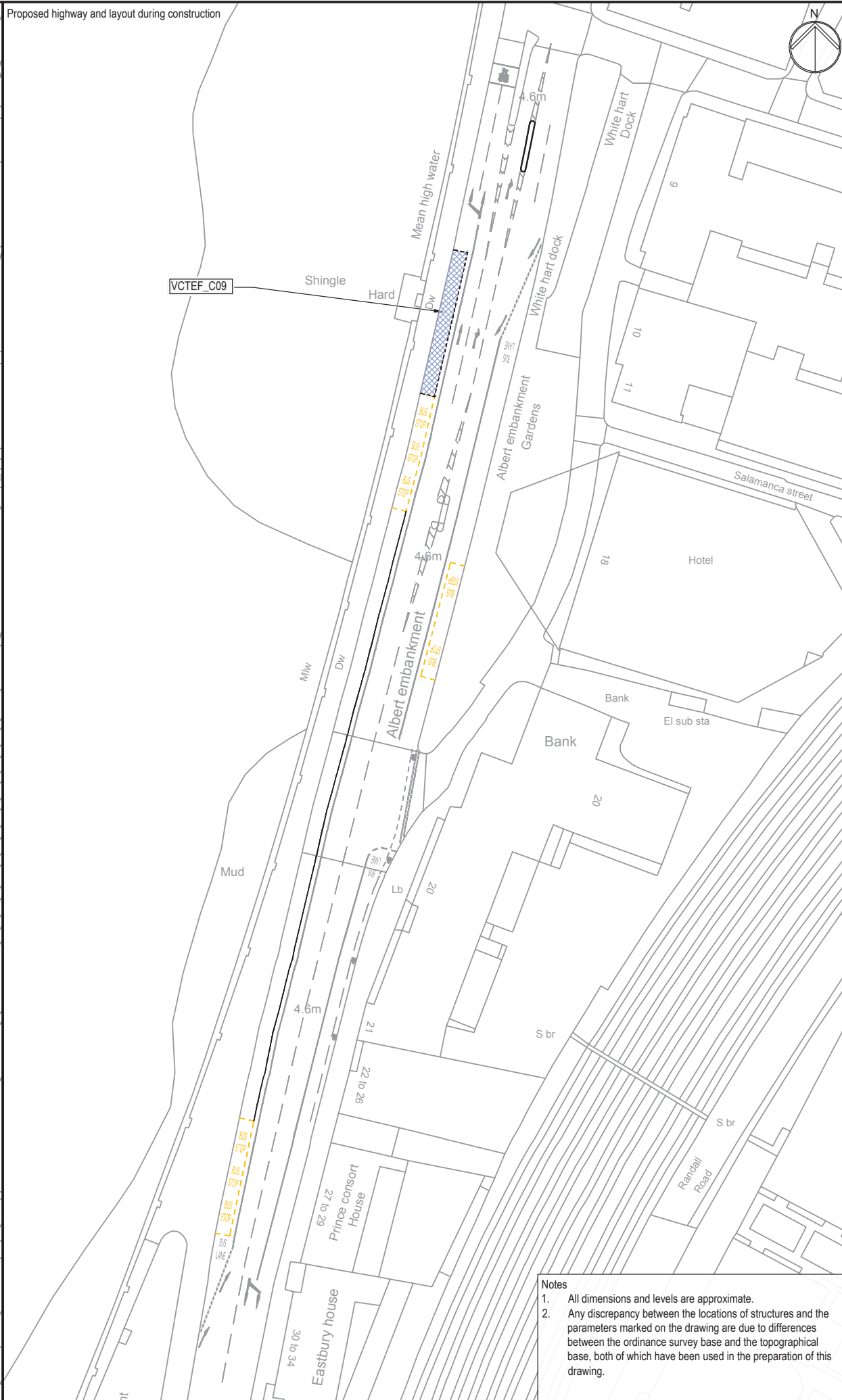
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Highway layout during construction
Phase 1 - 5

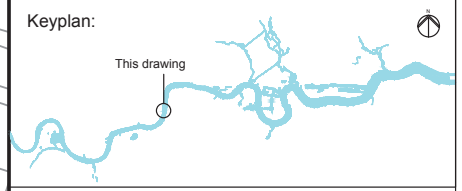
DCO-PP-16X-VCTEF-180040
January 2013

Creating a cleaner, healthier River Thames

- For proposed coach bay temporary locations see drawings**
- DCO-PP-16X-VCTEF-180041
 - DCO-PP-16X-VCTEF-180042
 - DCO-PP-16X-VCTEF-180043
- Notes**
- All dimensions and levels are approximate.
 - Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.



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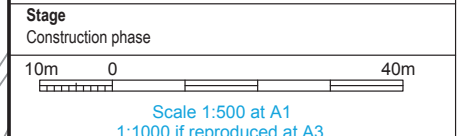
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing
 - Bus stop / stand
 - Bus lane
 - Coach parking
- Revised
- Parking bay (coaches only)

On street parking

Coach parking
Coaches Mon - Fri 10am - 4pm

- 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

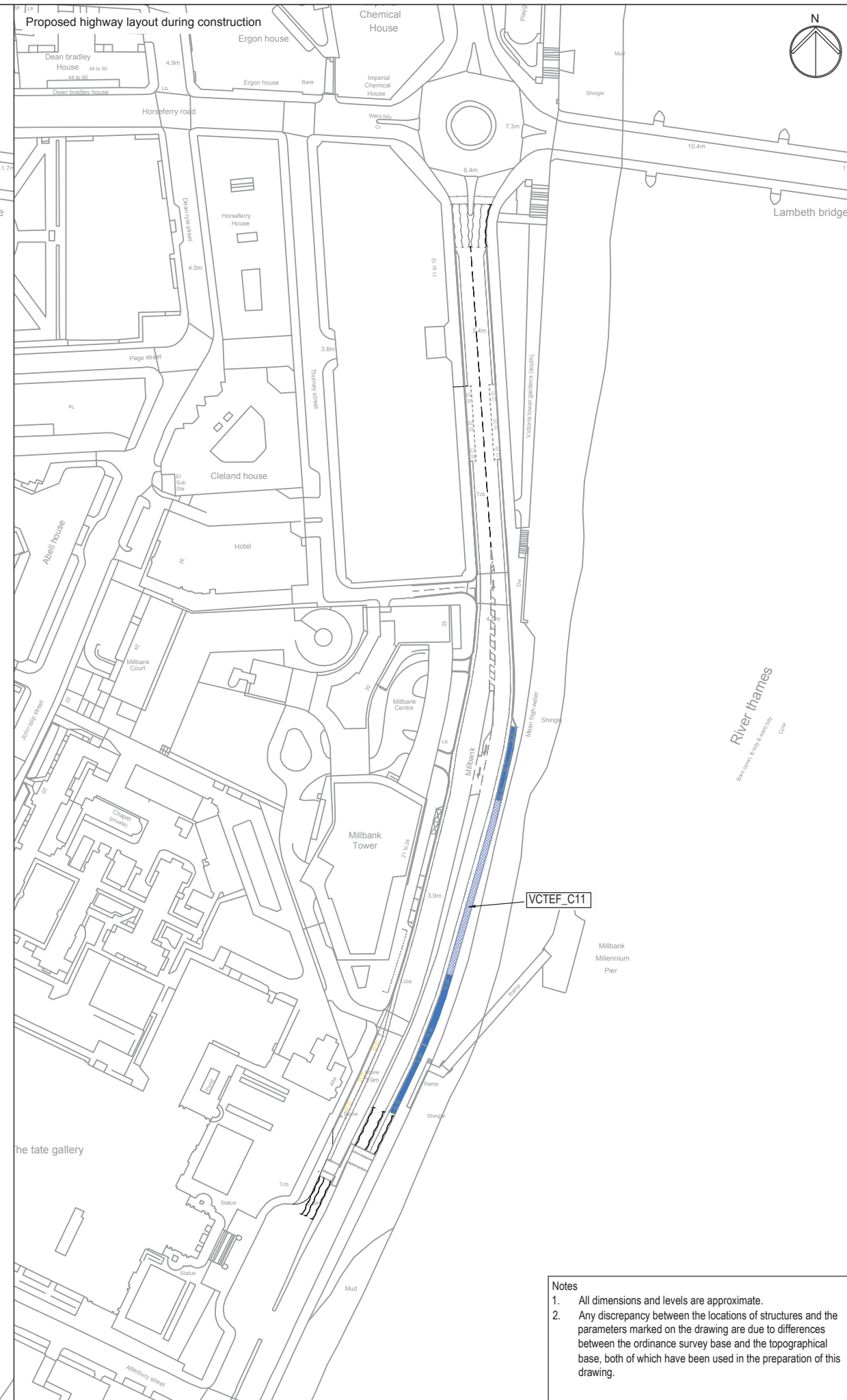
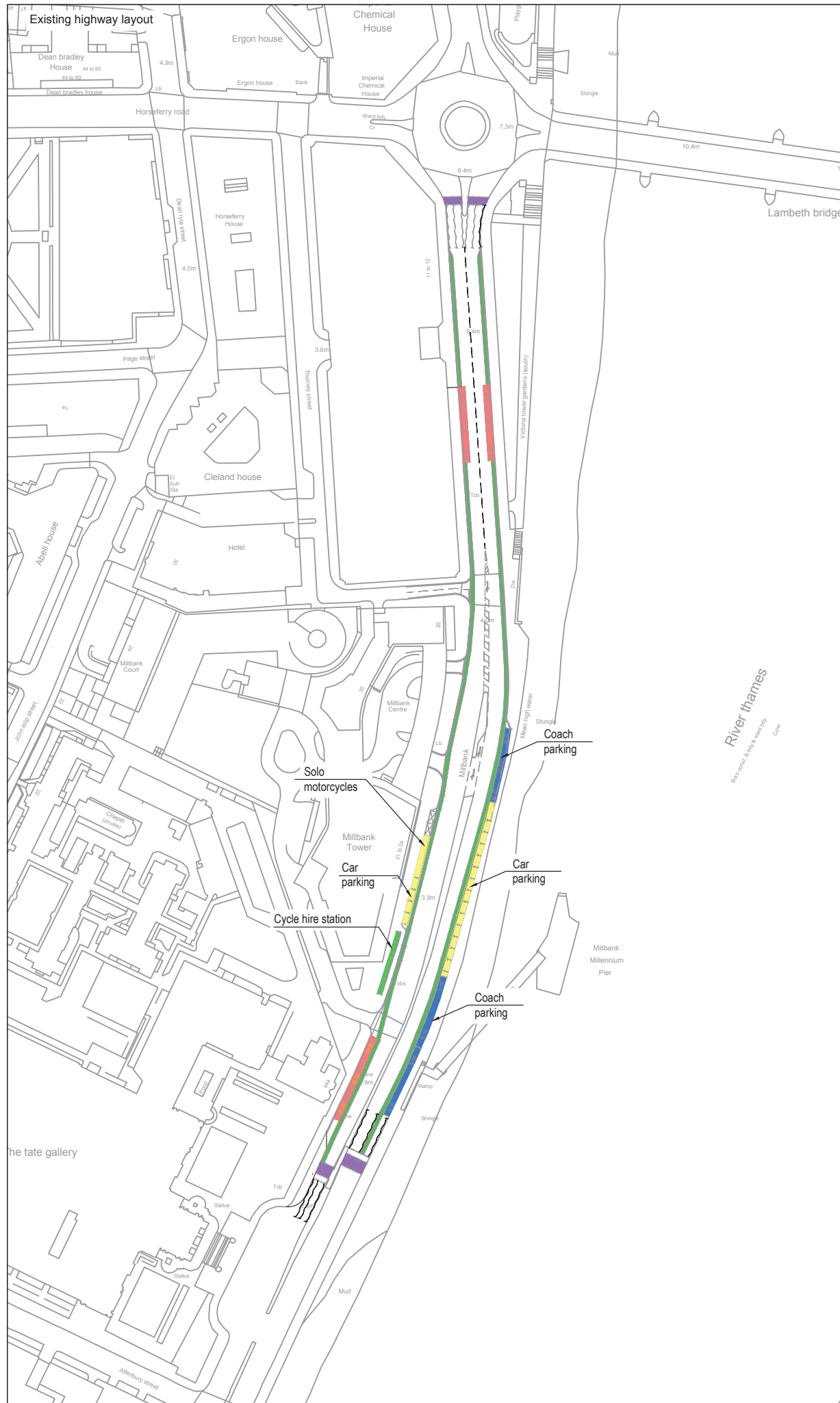
Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Relocated coach bays during construction
Albert Embankment

DCO-PP-16X-VCTEF-180041
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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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

- On street parking
- Bus stop / stand
- Coach parking
- Pedestrian crossing
- Cycle lane / advance stop line / cycle hire
- On-street parking bay (coach parking only)

On street parking

Coach parking
buses & coaches only
mon - fri 8:30am - 6:30pm
sat 8:30am - 1:30pm
max stay 2 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 phase

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

ILLUSTRATIVE

Location
Victoria Embankment Foreshore
City of Westminster

Document Information
Application for Development Consent
Highway layout during construction
Coach bays on Millbank

DCO-PP-16X-VCTEF-180043
January 2013

Notes

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

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

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