



**Tideway**

**Chambers Wharf**

**Permanent Works Submissions**

**Specific Information Centre Drop-In – 29<sup>th</sup> May 2019**

# Chambers Wharf – Permanent Above Ground Structures

## What are they ?

- These are the structures which will be left permanently in place once Tideway construction works are finished.
- They will be located above ground and will be visible.
- There are 4 main elements:
  - Ventilation Columns (x3)
  - Electrical and Control Kiosk
  - Stand-alone Artwork
  - New River Wall

# Chambers Wharf – Permanent Above Ground Structures



Future Residential Development  
(approved 2007).  
Ref: 07/AP/1262

Approximate alignment of  
new river wall

Approximate location of  
ventilation columns

Approximate location of  
stand-alone artwork

Approximate location  
electrical control kiosk

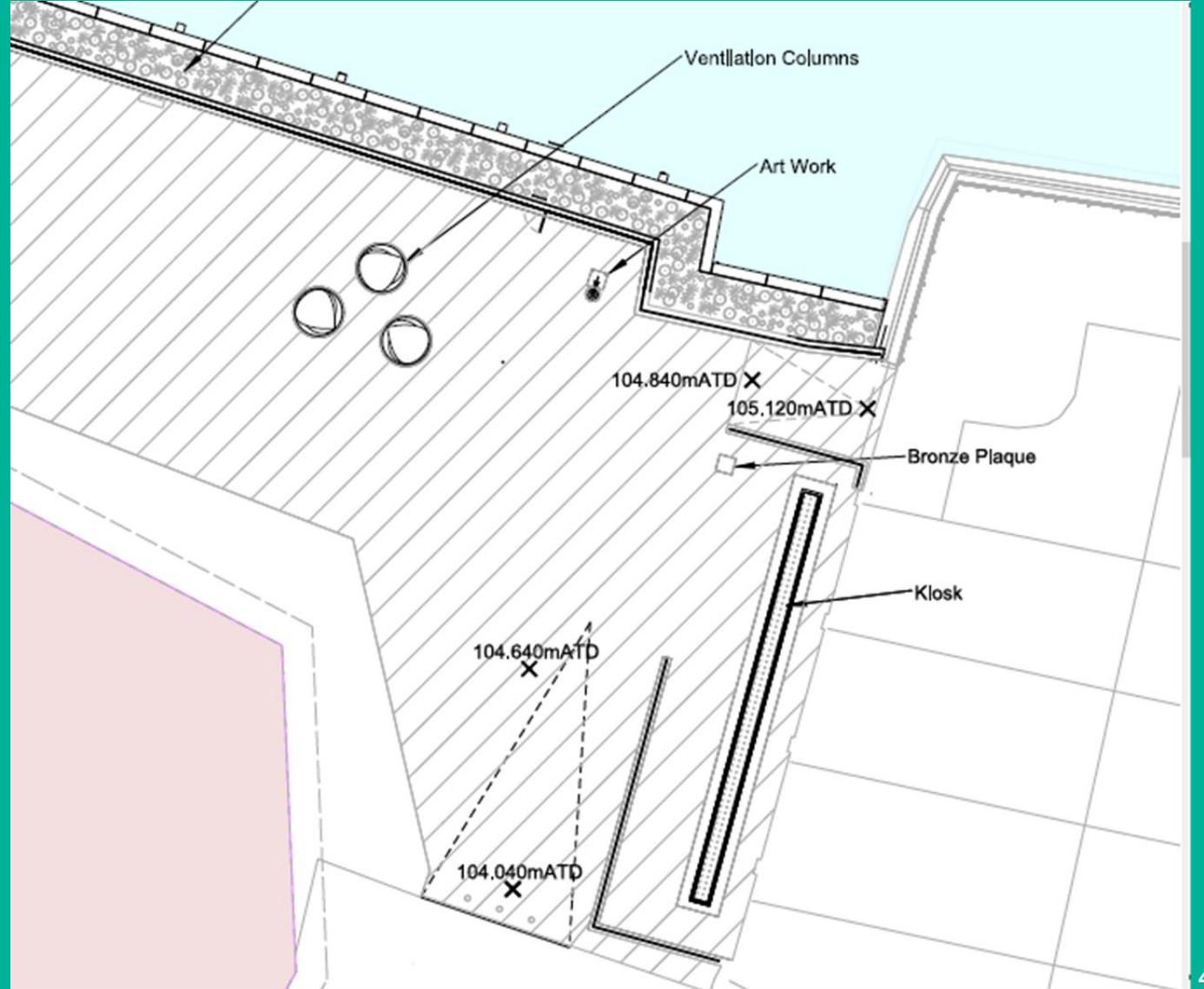
Development Consent Order (DCO) – indicative layout

# Chambers Wharf – Permanent Above Ground Structures

## Approximate Location Plan – Ventilation Columns



Chambers Wharf



# Ventilation Columns

## What will they look like?

- 3 no. columns
- 5.1m in height & 1.2m in diameter at the base.
- 'Signature' ventilation column shape
- Cast iron, either dark grey or black in colour
- Each column will also have a poem cast into it which will be approximately 150 characters long.
- The location and maximum height of the columns was approved under the Development Consent Order (DCO) in 2014
- Appearance (e.g size, external appearance and material) is to be approved by LB Southwark

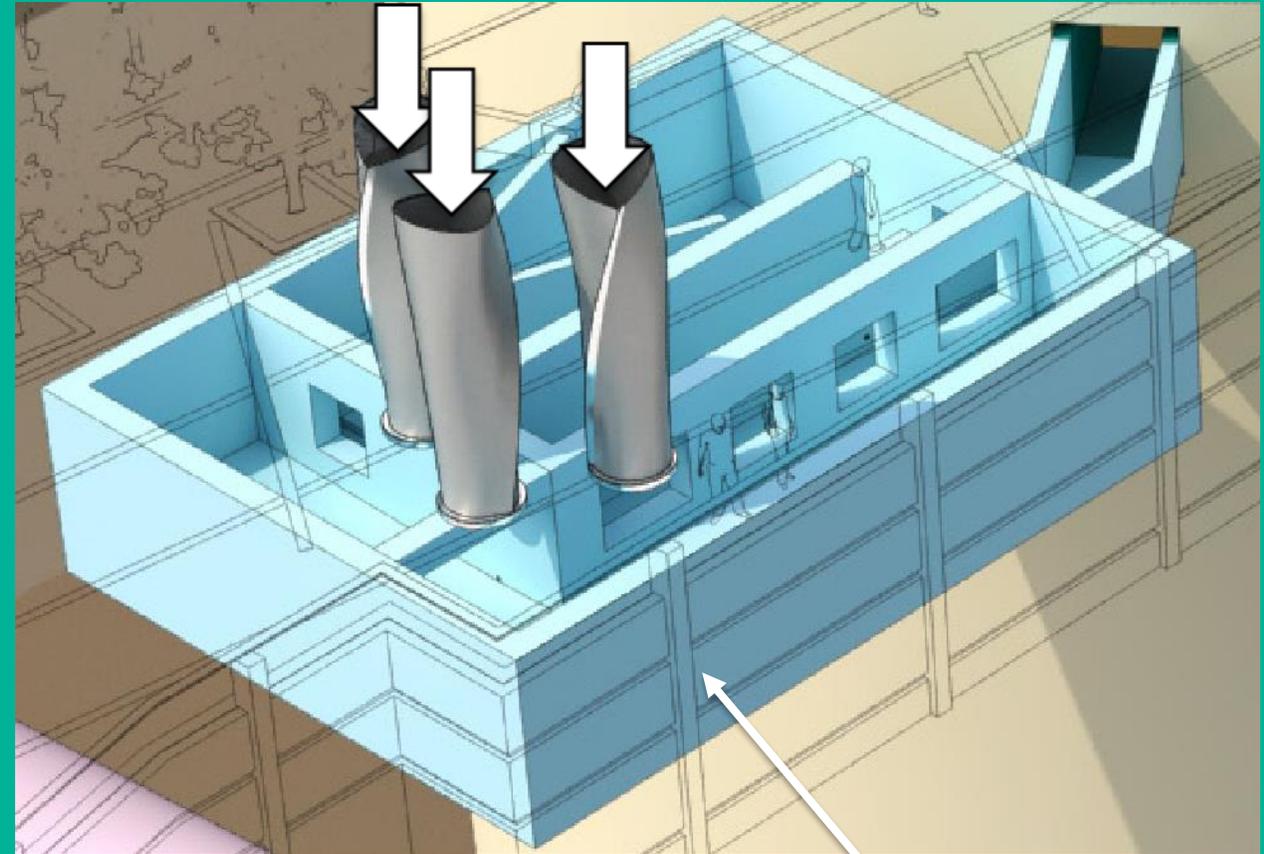


# Ventilation Columns

What are they for?

- required for Tideway Tunnel operation.
- let air INTO the shaft and tunnel for over 99% of the time.
- by passing air into the tunnel, it reduces the likelihood of the build up of odours.
- when the tunnel is full, treated air will be released from the ventilation columns
- air released will pass through the below-ground air treatment chamber to remove odours.
- under normal operating conditions, no untreated air is expected to be released.

Allows air into shaft & tunnel over 99% of the time



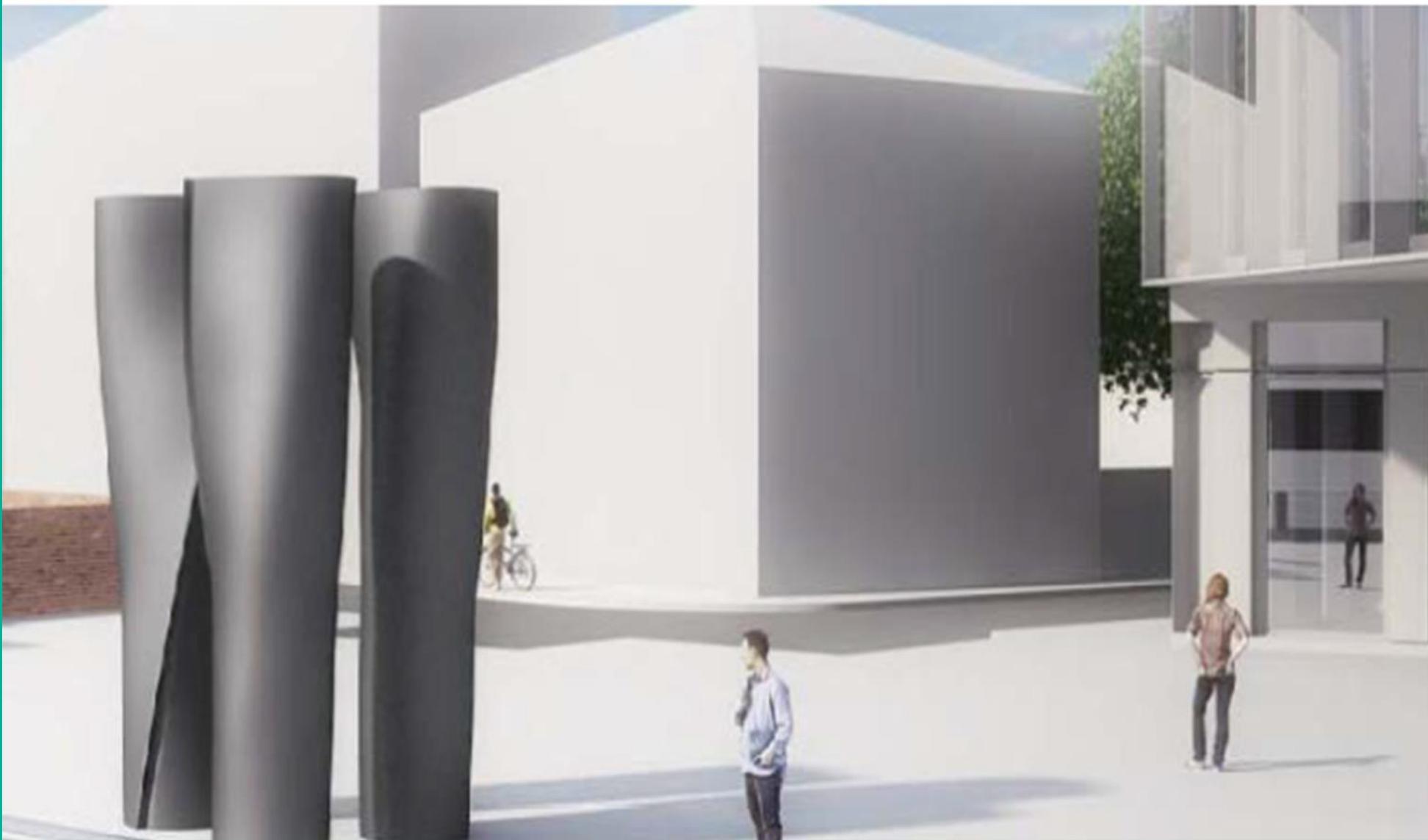
Below ground air treatment unit (shown in blue)

# Ventilation Columns



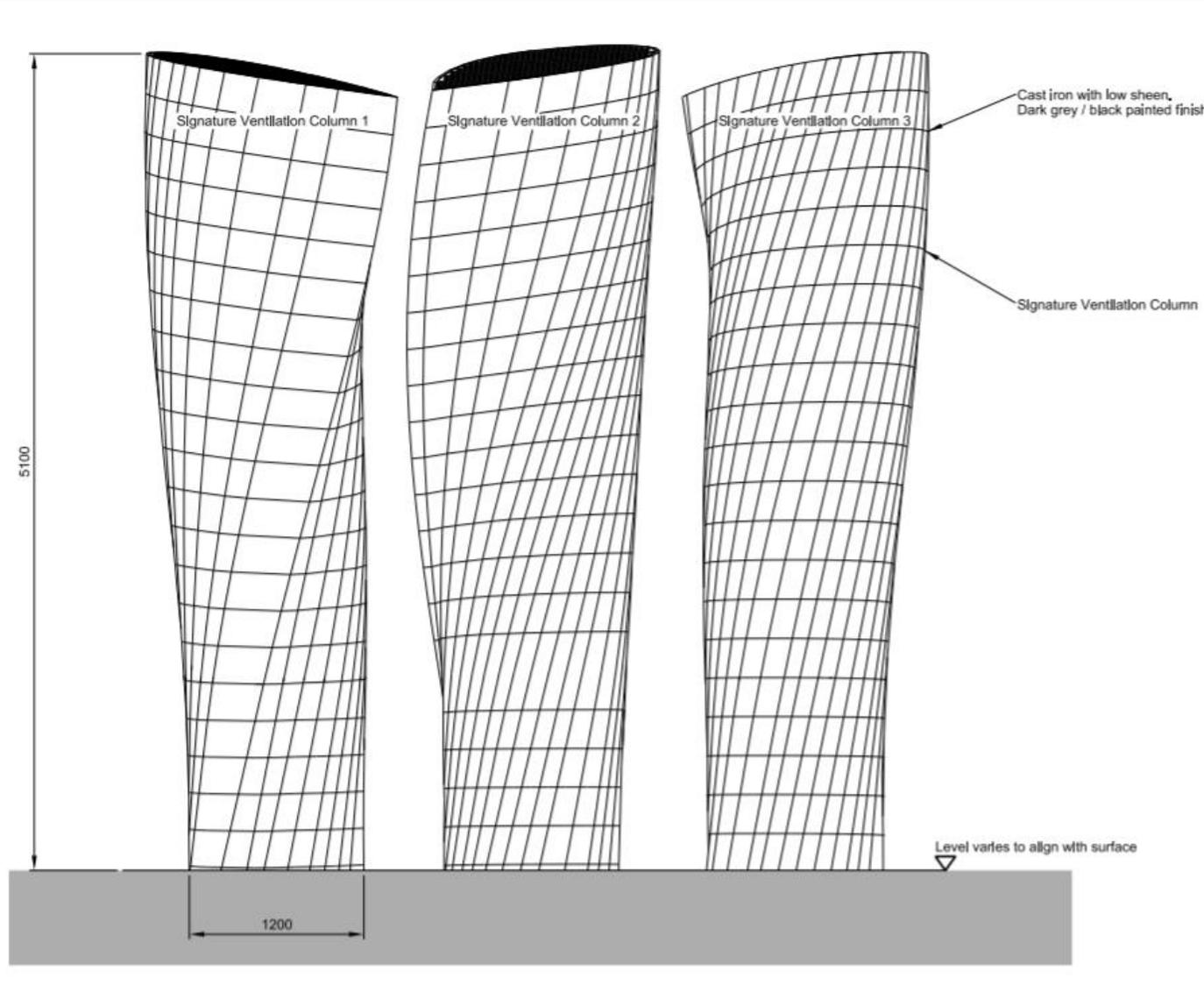
Indicative visualisation – looking southwest

# Ventilation Columns



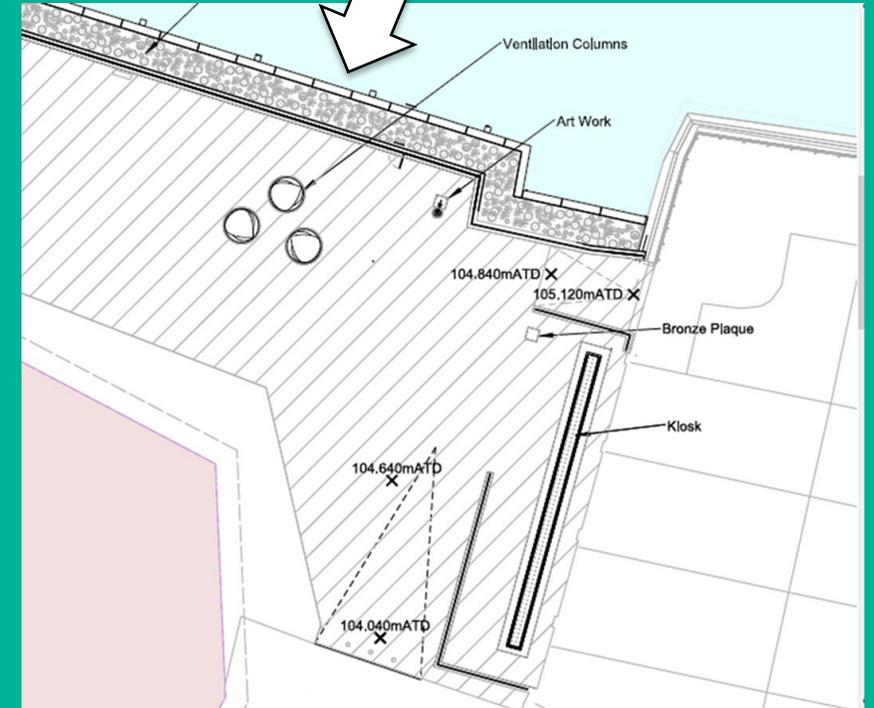
Indicative visualisation – looking southeast

# Ventilation Columns



Elevation – (viewed from the north)

Elevation Viewpoint



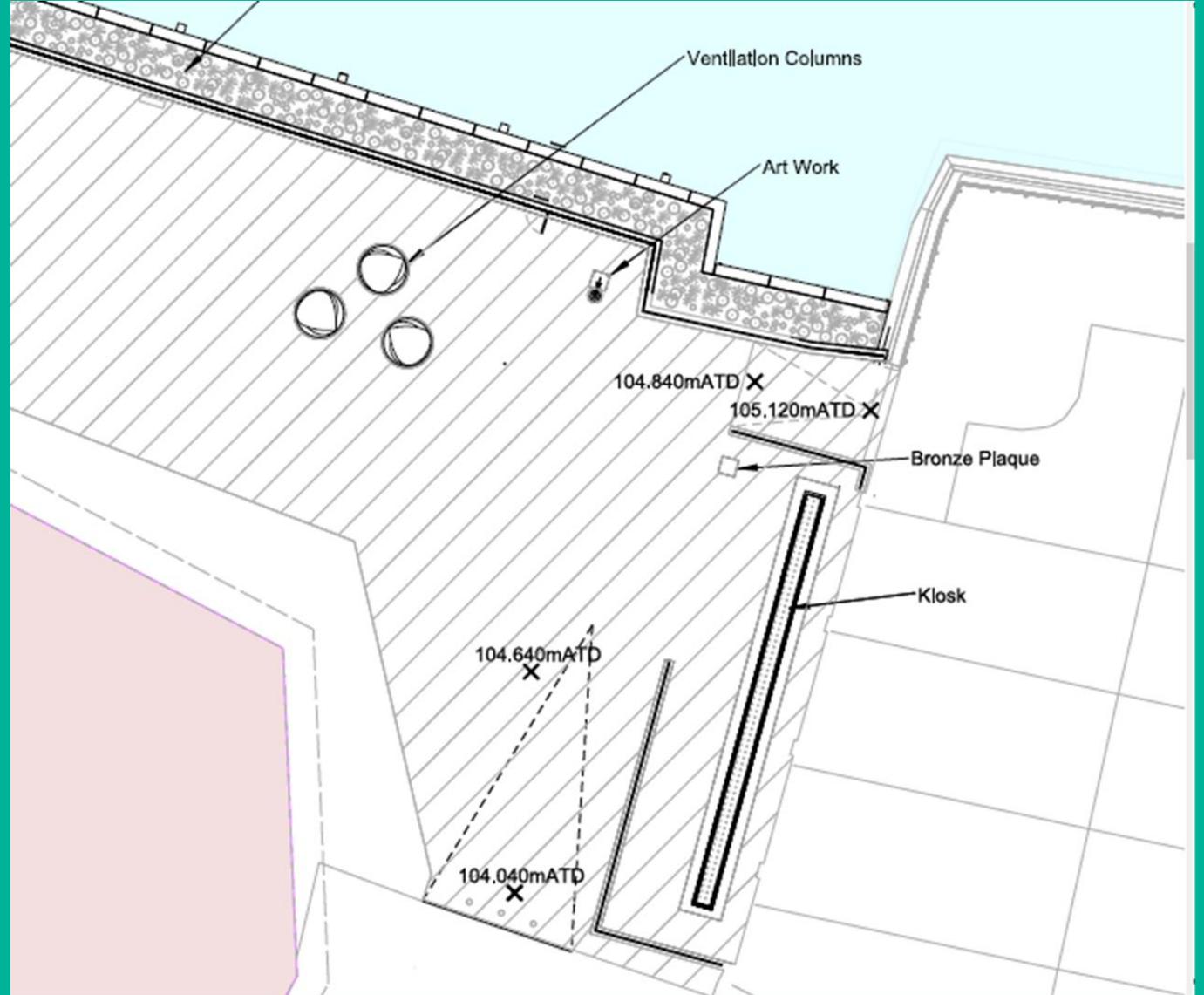
- 3 columns
- 'Signature' ventilation column shape
- Each 5.1m in height and 1.2m in diameter at the base.
- Cast Iron
- Dark grey / black in colour

# Chambers Wharf – Permanent Above Ground Structures

## Approximate Location Plan – Electrical Control Kiosk



Chambers Wharf



# Electrical and Control Kiosk

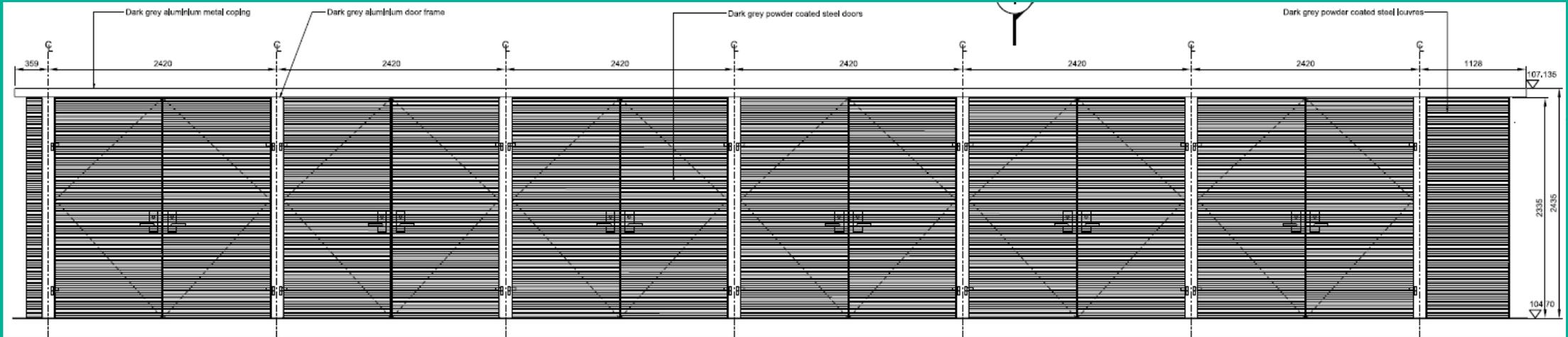
## What is it for?

- contains flow control and monitoring equipment
- required for Tideway Tunnel operation

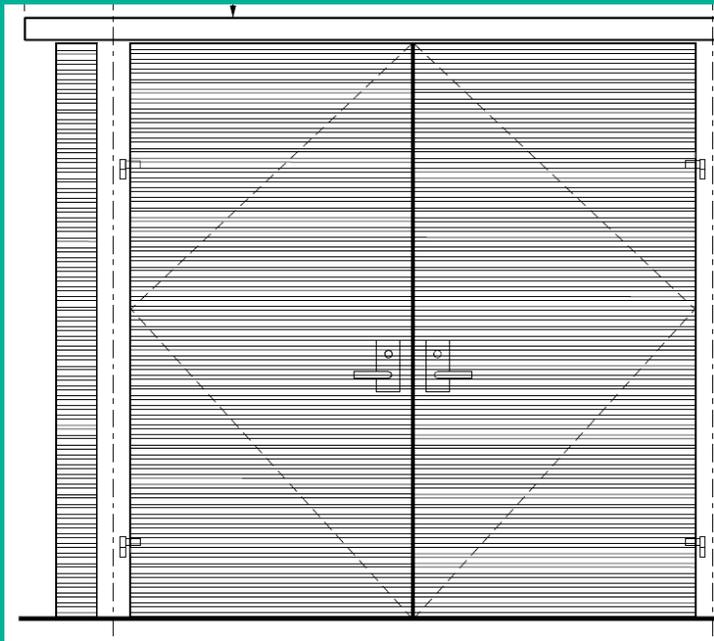
## What will it look like?

- location and maximum height approved under the Development Consent Order (DCO) in 2014.
- approximately 16m long and 2.3m in height.
- appearance (e.g size, external appearance and material) to be approved by LB Southwark
- western, northern and southern sides - dark grey steel louvered panels and doors.
- eastern side - dark grey brick cladding.
- 'brown roof' to contribute to biodiversity in the local area.
- Located 0.8m from the rear boundary wall of 8 -14 Fountain Green Square.
- a fence and gate will restrict public access to this space.

# Electrical and Control Kiosk



Elevation – looking east

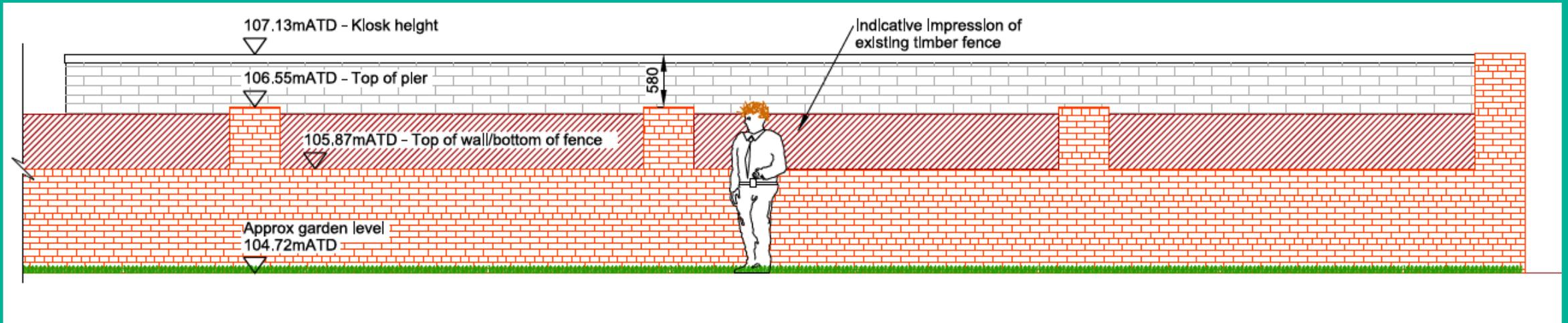


Steel Louvered Doors

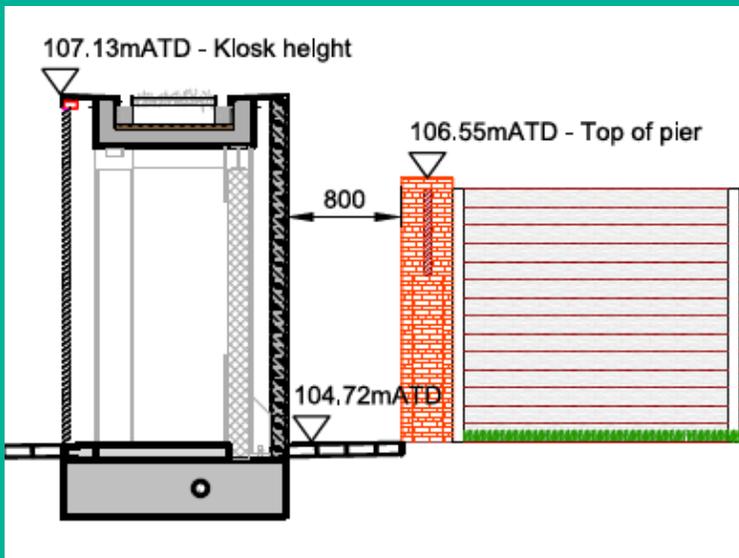


Example of steel louvered doors and panels

# Electrical and Control Kiosk



Elevation – looking west

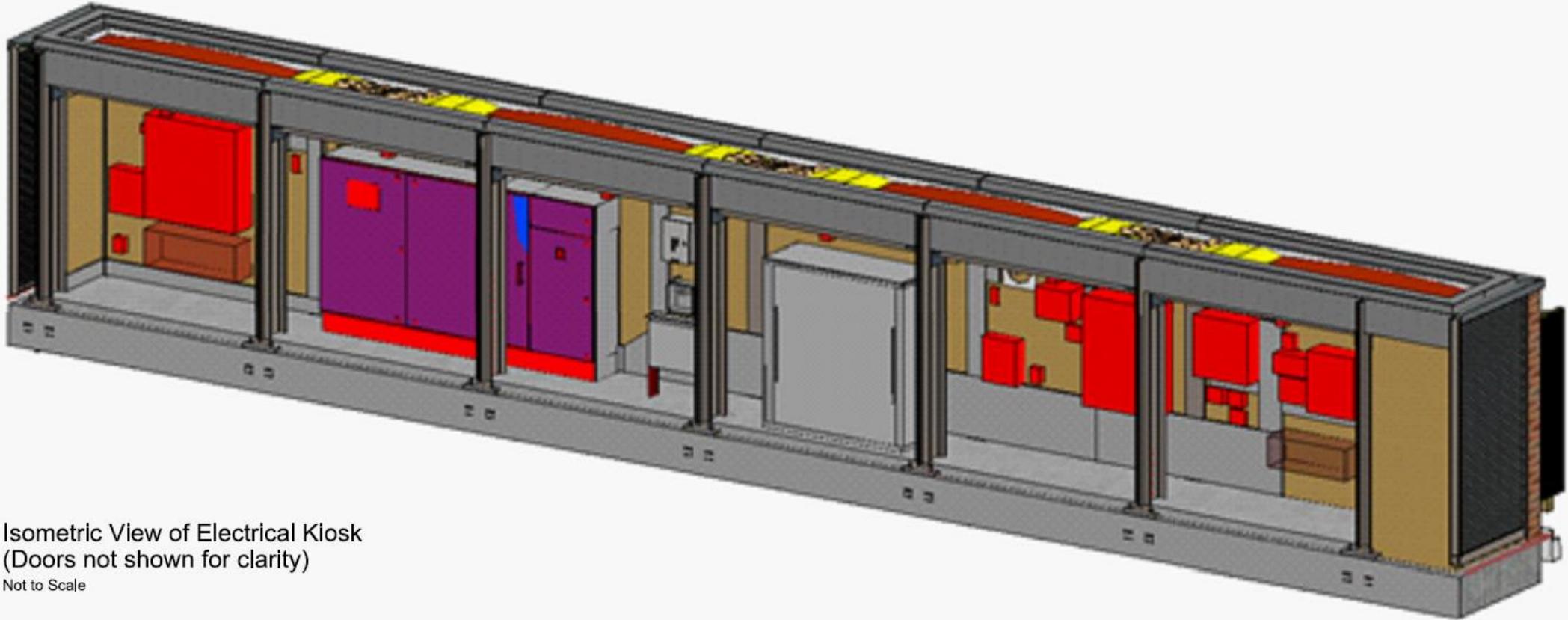


Section – looking north



Eastern side – Grey brickwork

# Electrical and Control Kiosk



Isometric View of Electrical Kiosk  
(Doors not shown for clarity)  
Not to Scale

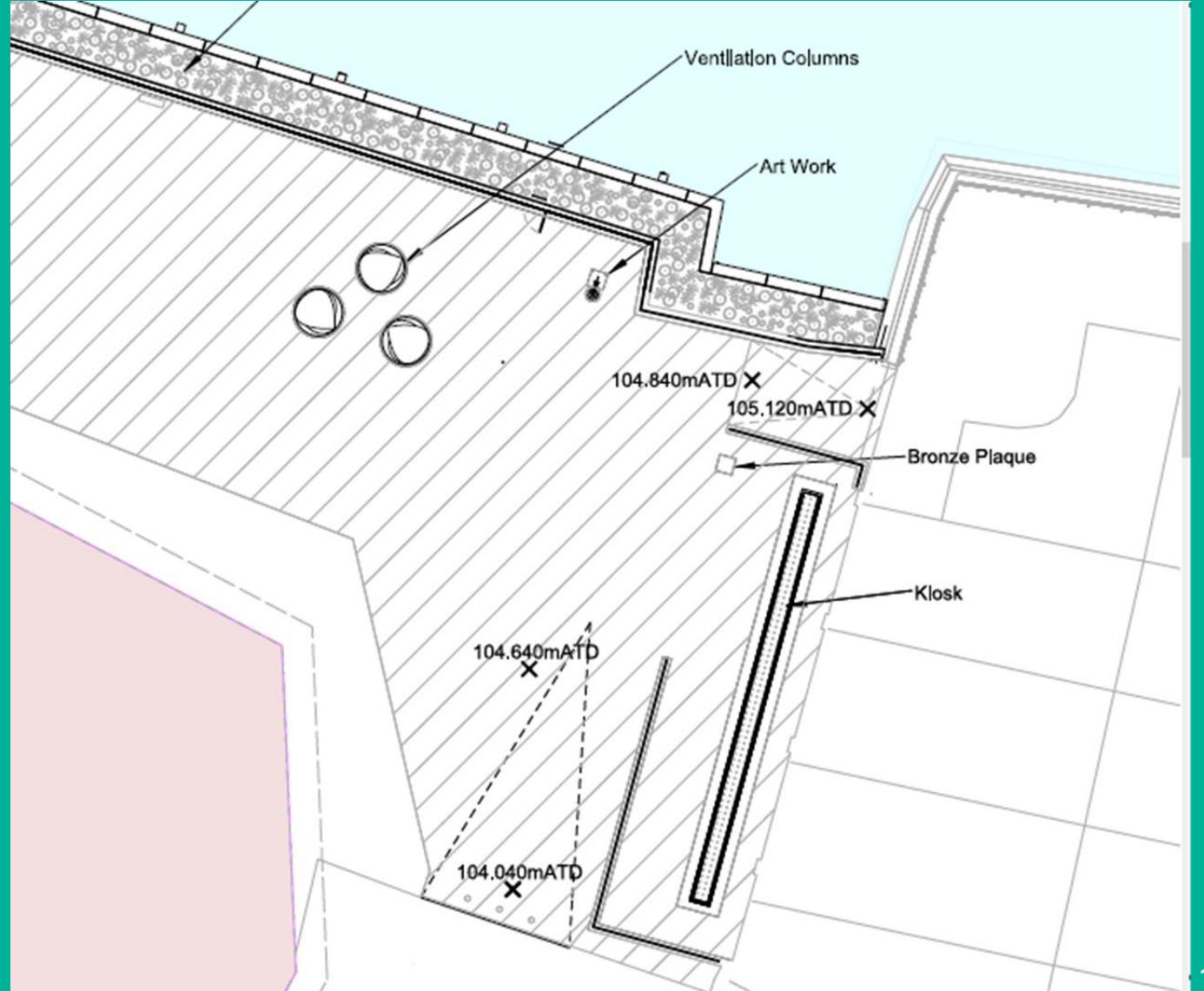
Indicative internal layout

# Chambers Wharf – Permanent Above Ground Structures

## Approximate Location Plan – Stand-alone Artwork



Chambers Wharf



# Stand-alone Artwork

## What is it for?

- Part of Tideway's legacy and Heritage Interpretation Strategy
- developed in accordance with the Development Consent Order (DCO) requirements.

## What will it look like?

- artwork known as 'Waveform' by artist Leo Fitzmaurice
- a cast bronze bell-like form, reminiscent of a ship's bell and a soundwave shape.
- approximately 500mm in diameter, fixed to a bespoke white-painted 'mast' .
- mast approximately 4m high.
- The mast takes its cue from typical nautical structures.

# Stand-alone Artwork



nautical bell and mast

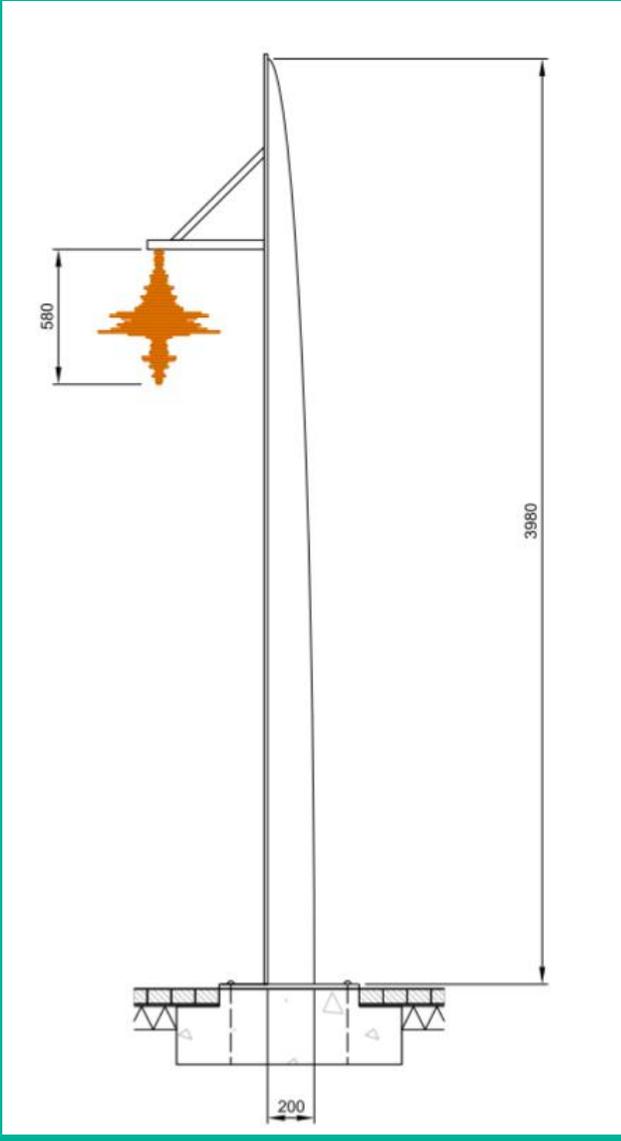
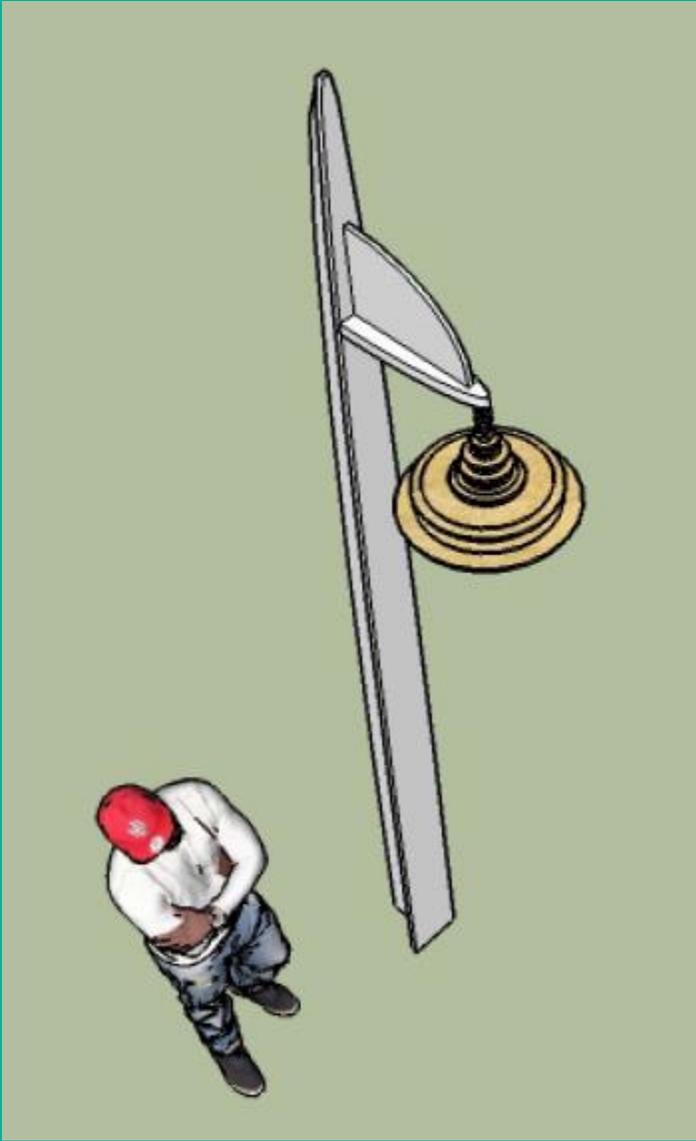
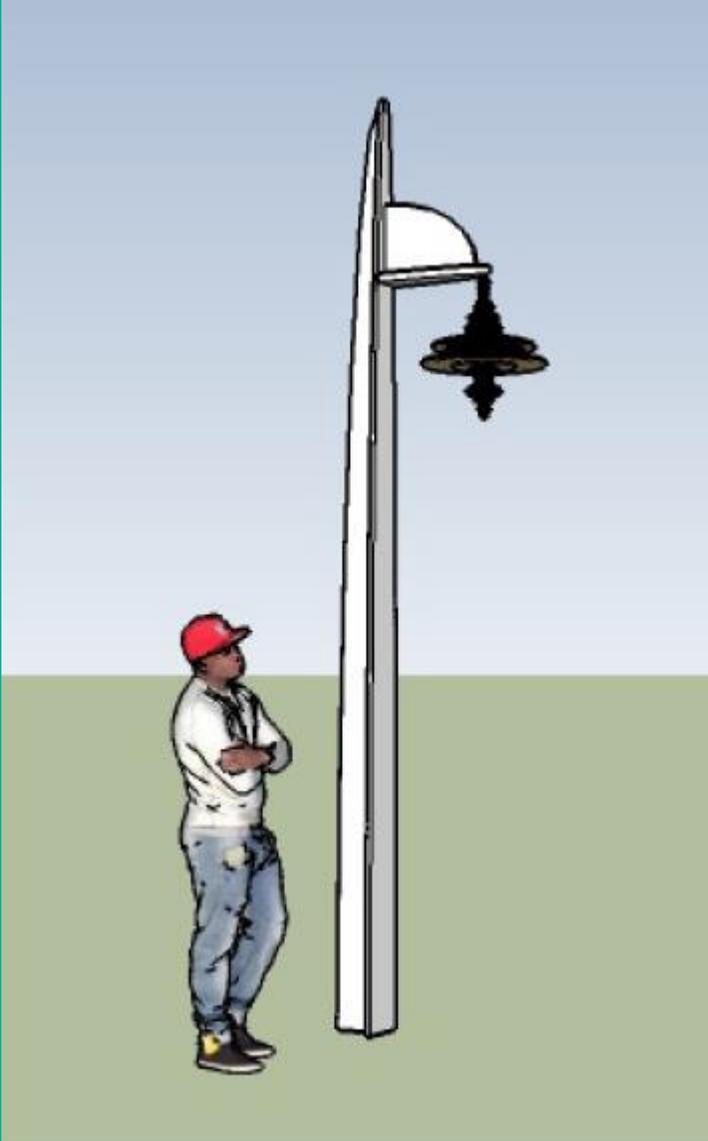


Noise waveform of a bell ringing



'Waveform' by Leo Fitzmaurice

# Standalone Artwork



Visualisations

Elevation

# Permanent River Wall

## What is it for?

- permanent river wall will run along the Chambers Wharf site perimeter once the temporary cofferdam has been removed.
- permanent flood defence boundary between the site and the River Thames.

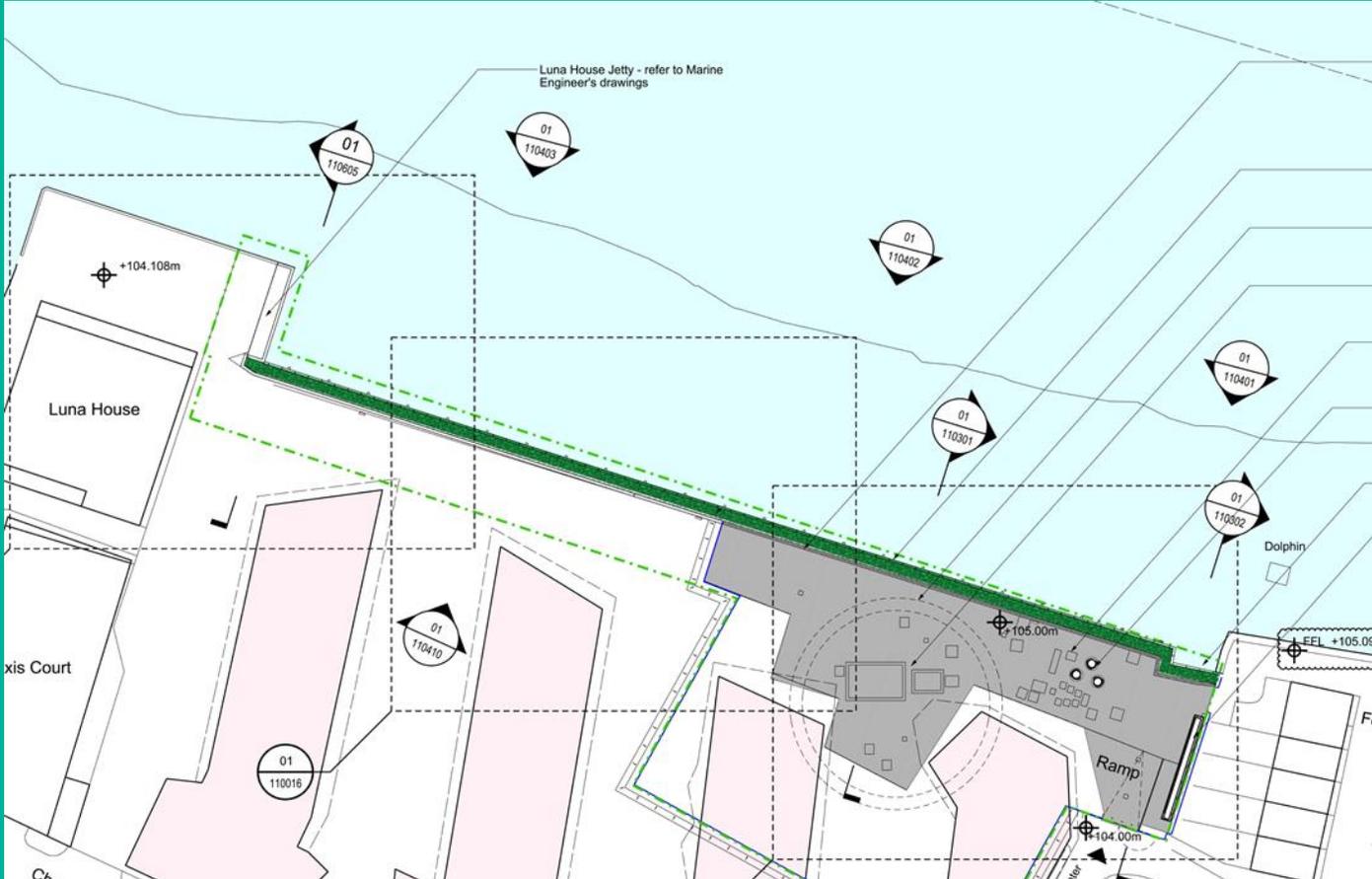
## Why have we submitted a separate planning application?

- Development Consent Order (DCO) gives approval for the construction of the new strengthened river wall along the alignment of the existing river wall.
- submission made to LB Southwark is to construct the permanent river wall along a slightly revised alignment.
- will avoid the disruption of breaking out the existing river wall.

## What will it look like?

- includes a planted inter-tidal terrace to enhance the environmental aspects.
- includes ecological concrete cladding

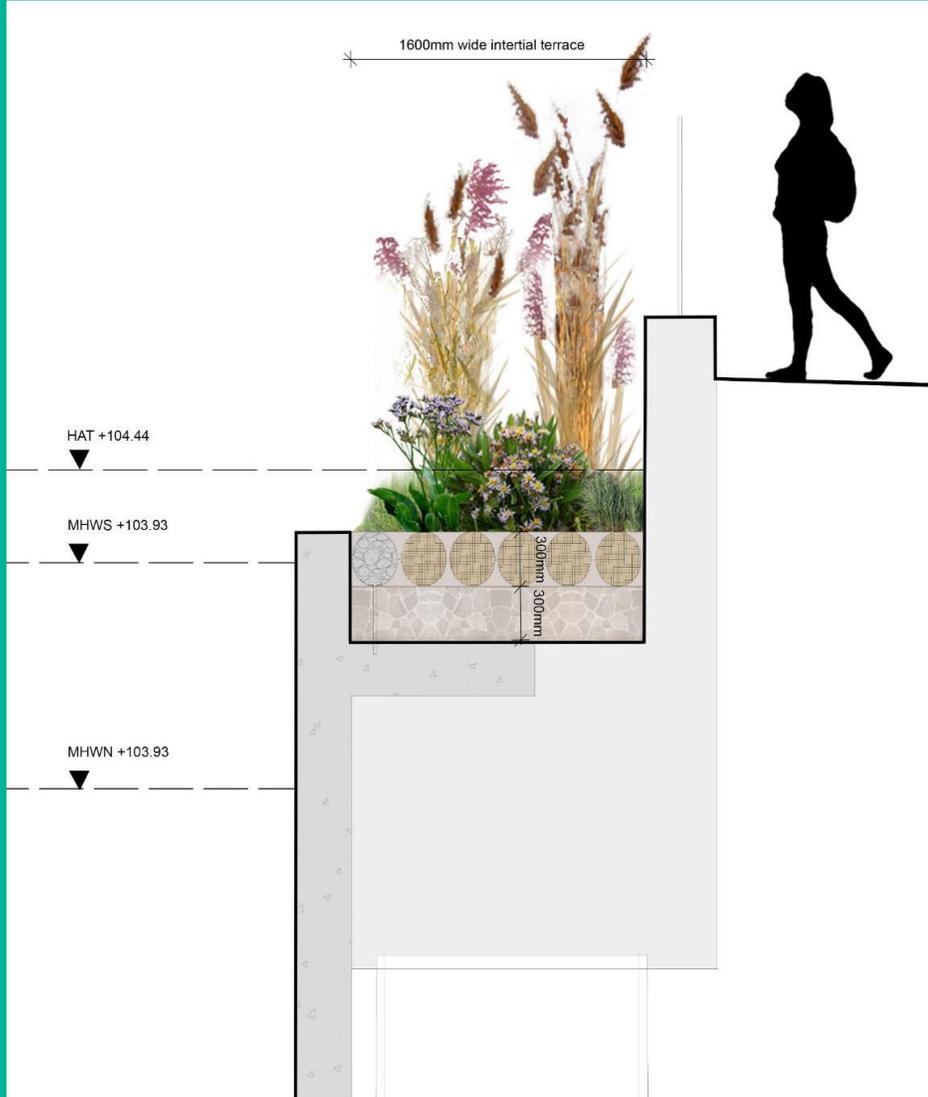
# Permanent River Wall



## Ecological enhancements

- 145 metres of intertidal terrace 1.5m wide
- Around 600m<sup>2</sup> of new ecological concrete wall habitat

# Permanent River Wall - intertidal terrace



- Floods at high tides with boat wash and at very high tides
- Water enters and drains away through gaps between cladding panels
- Palette of native salt marsh plants to suit relatively infrequent inundation
- Key is diversity and complexity of planting and surfaces to support intertidal and terrestrial organisms
- Relatively infrequent inundation [due to high level because of marine engineering] means less water-borne litter and easier maintenance



*Salt marsh habitat planting  
e.g marsh grass, sea  
lavender, sea aster, sea  
plantain , sea beet, sea couch*

# Permanent River Wall - ecological features



- Special concrete composition to encourage, not repel, colonisation
- Heavy texture provides small habitat niches - complexity increases opportunities for greater diversity of species
- Key is to target primary colonisers and small prey species as a food chain foundation
- Should be well colonised 3 years after completion, starting with algae as a building block for further marine organisms.



*'Urban waterfront projects and ecology wall vs normal concrete research', Brooklyn Bridge Park - by Econcrete*

# Permanent Above Ground Structures

## What has been submitted?

- We have made a submission to LB Southwark for these permanent works.
- There are 4 main elements:
  - Ventilation Columns (x3)
  - Electrical and Control Kiosk
  - Stand-alone Artwork
  - New River Wall
- information and images of what they will look like are shown on the LB Southwark Planning Portal.
- A link to the LB Southwark planning portal can be found here:
- <https://planning.southwark.gov.uk/online-applications/>
  - Ref: 19/AP/1415 – ventilation columns, electrical control kiosk and stand-alone artwork.
  - Ref: 19/AP/1465 – permanent river wall

# Permanent Above Ground Structures

## What can I comment on?

- The Development Consent Order (DCO) is the permission to construct the Tideway project and was granted by the Secretaries of State in September 2014.
- The location of the structures, their maximum height and their function and necessity has already been approved under the DCO.
- The scope of LB Southwark's approval and comments relate to size, height, visual appearance and external materials etc.

## How do I make comments?

- Please ensure you make them directly to the LB Southwark Planning Team, using the link below:
- <https://planning.southwark.gov.uk/online-applications/>
  - Ref: 19/AP/1415 – ventilation columns, electrical control kiosk and stand-alone artwork.
  - Ref: 19/AP/1465 – permanent river wall
- The closing date for comments will be shown on the LB Southwark Planning Team website.