Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: 2.09

Carnwath Road Riverside

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

Hard copy available in
Box 61 Folder B
January 2013
## Application for Development Consent: Book of Plans

### List of Volumes

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

This volume is Volume 2
<table>
<thead>
<tr>
<th>Drawing Title</th>
<th>Sheet No.</th>
<th>Drawing number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 9: Carnwath Road Riverside</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location plan</td>
<td></td>
<td>DCO-PP-06X-CARRR-090001</td>
</tr>
<tr>
<td>As existing site features plan</td>
<td></td>
<td>DCO-PP-06X-CARRR-090002</td>
</tr>
<tr>
<td>Access plan</td>
<td></td>
<td>DCO-PP-06X-CARRR-090003</td>
</tr>
<tr>
<td>Demolition and site clearance</td>
<td></td>
<td>DCO-PP-06X-CARRR-090004</td>
</tr>
<tr>
<td>Site works parameter plan</td>
<td></td>
<td>DCO-PP-06X-CARRR-090005</td>
</tr>
<tr>
<td>Site works parameter key plan</td>
<td></td>
<td>DCO-PP-06X-CARRR-090006</td>
</tr>
<tr>
<td>Permanent works layout</td>
<td></td>
<td>DCO-PP-06X-CARRR-090007</td>
</tr>
<tr>
<td>Proposed landscape plan</td>
<td></td>
<td>DCO-PP-06X-CARRR-090008</td>
</tr>
<tr>
<td>Section AA</td>
<td></td>
<td>DCO-PP-06X-CARRR-090009</td>
</tr>
<tr>
<td>As existing and proposed west elevation</td>
<td></td>
<td>DCO-PP-06X-CARRR-090010</td>
</tr>
<tr>
<td>As existing and proposed south elevation</td>
<td></td>
<td>DCO-PP-06X-CARRR-090011</td>
</tr>
<tr>
<td>Ventilation column design intent</td>
<td></td>
<td>DCO-PP-06X-CARRR-090012</td>
</tr>
<tr>
<td>Ventilation building design intent</td>
<td></td>
<td>DCO-PP-06X-CARRR-090013</td>
</tr>
<tr>
<td>Construction phases - phase 1 Site setup and shaft construction</td>
<td></td>
<td>DCO-PP-06X-CARRR-090014</td>
</tr>
<tr>
<td>Construction phases - phase 2 Tunnelling</td>
<td></td>
<td>DCO-PP-06X-CARRR-090015</td>
</tr>
<tr>
<td>Construction phases - phase 3 Secondary lining</td>
<td></td>
<td>DCO-PP-06X-CARRR-090016</td>
</tr>
<tr>
<td>Construction phases - phase 4 Site demobilisation</td>
<td></td>
<td>DCO-PP-06X-CARRR-090017</td>
</tr>
<tr>
<td>Highway layout during construction - Area 1 work*</td>
<td></td>
<td>DCO-PP-06X-CARRR-090021</td>
</tr>
<tr>
<td>Highway layout during construction - Area 2 work*</td>
<td></td>
<td>DCO-PP-06X-CARRR-090022</td>
</tr>
<tr>
<td>Permanent highway layout - Area 1 work*</td>
<td></td>
<td>DCO-PP-06X-CARRR-090023</td>
</tr>
<tr>
<td>Permanent highway layout - Area 2 work*</td>
<td></td>
<td>DCO-PP-06X-CARRR-090024</td>
</tr>
</tbody>
</table>

* Schedules of associated highway works are located in the *Transport Assessment*
Key:
- Local authority boundary
- Order limits
- Tunnel
- Shaft

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

Datum Newlyn.

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

FOR INFORMATION

Location
Carnwath Road Riverside
London Borough of Hammersmith & Fulham

Document Information
Application for Development Consent
Location plan

Book of plans - section 9
DCG-PP-36X-CARRR-090001
January 2013

Thames Tideway Tunnel
© Thames Water Utilities Ltd 2008
Datum Newlyn. Tunnel Datum which is 100 metres below Ordnance OSGB36. All levels are in metres and relate to the Coordinates are to be Ordnance Survey Datum

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 APPROVAL

Location: Carnwath Road Riverside
London Borough of Hammersmith & Fulham

Application for Development Consent
Demolition and site clearance

Book of plans - section 9
DCP-PP-386-CARRR-090004
January 2013


trenching brickwork wall

2.1m high x 4.5m long freestanding brickwork wall

0.75m high brickwork retaining wall

Concrete post & plank and wooden board site boundary fence

Magazines

2.4m high brickwork wall

Portal 2-storey commercial buildings with masonry and profiled sheet cladding

300m high brickwork retaining wall

Planter retaining walls

Pair of 0.75m high brickwork retaining walls

Section of concrete post & plank wall and brickwork wall

Concrete post & plank and wooden board site boundary fence

Mean low water

FOR APPROVAL

Location: Carnwath Road Riverside
London Borough of Hammersmith & Fulham

Application for Development Consent
Demolition and site clearance

Book of plans - section 9
DCP-PP-386-CARRR-090004
January 2013

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

Key:

- Limits of land to be acquired or used (LLAU)
- Trees to be removed
- Trees to be pruned
- Allow 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.
Table 1

<table>
<thead>
<tr>
<th>Above ground permanent structure</th>
<th>Maximum height above finished ground level (Minimum heights are in brackets where applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation building to house</td>
<td>5.5m (minimum)</td>
</tr>
<tr>
<td>an emergency management plant</td>
<td></td>
</tr>
<tr>
<td>and equipment</td>
<td></td>
</tr>
<tr>
<td>Ventilation column(s) serving</td>
<td>15.0m (minimum)</td>
</tr>
<tr>
<td>the shaft</td>
<td></td>
</tr>
<tr>
<td>New boundary wall</td>
<td>5.0m (minimum)</td>
</tr>
</tbody>
</table>

Notes:
1. All dimensions and levels are approximate.
2. The Site Works Parameter Key Plan identifies each zone independently.
3. The plans 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 including ventilation column(s) would be located only if required by the Ventilation Building to house the management plant and equipment. The zone within which the shaft would be located would include all permanent works including shaft walls and if applicable Contractor’s under-reaming. Shaft construction temporary works including ventilation column(s) would be located only if required by the Ventilation Building to house the management plant and equipment. The zone within which the Ventilation column(s) would be located would include all permanent works including ventilation column(s) and the ventilation building to house the management plant and equipment. The zone within which the Ventilation building to house the management plant and equipment would be located would include all permanent works including ventilation column(s) and the ventilation building to house the management plant and equipment.

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**

**Location**
Carnwath Road Riverside
London Borough of Hammersmith & Fulham

**Application for Development Consent**
Site works parameter plan

Book of plans - section 9
DCG-PP-56X-CARRR-090005
January 2013

**FOR APPROVAL**

This drawing is reproduced at A1 scale. If reproduced at A3, the scale is 1:1000.
Datum Newlyn. Tunnel Datum which is 100 metres below Ordnance OSGB36. All levels are in metres and relate to the
Coordinates are to be Ordnance Survey Datum
Application for Development Consent
River Thames
Carnwath Road
Substation
The Piper Building
Existing Thames Path
top of flood defence wall
Existing electricity substation
Ventilation building 5 m maximum height
with a planted brown roof and fall restraint system
+105.45
Existing levels
shown in metres above Tunnel Datum
Zone within which permanent above ground structures would be located
Zone within which required landscaping would be located
Zone which would be hoarded off after construction and available for future safeguarded wharf uses
+105.40m
Zone within which required landscaping would be located
Consented development footprint (by others)
Listed building/structures
Proposed trees
Handrail along river edge on top of flood defence wall
INDEEDATIVE
Save for layout of above ground structures which is illustrative
Location
Carnwath Road Riverside
London Borough of Wandsworth
Document Information
Application for Development Consent
Proposed
Landscape plan
Book of plans - section 9
DCG-PP-M6-CARRR-090008
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 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 the drawing.
3. The above ground structures in the "save for the layout of the above ground structures" statement are those listed in Table 1 on the site
   works parameter plan.
10m high ventilation column
Horizontally banded feature wall with combined lighting and gaps
Ventilation building 5.5m maximum height with a planted brown roof with full restraint system

Handrailing along river edge on top of flood defence
Frogmore connection tunnel to Dismay Street and King George's Park

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 West elevation

Proposed West elevation
Residential  Thames Path  Whiffin Wharf  Hurstingham Wharf

As existing South elevation

Proposed South elevation

Maximum extent eastwards of land available for future development
New public realm
15m high ventilation column
Ventilation building 5.5m maximum height with a planted brown roof and fall restraint system

Notes:
1. All dimensions and levels are approximate.

Location
Carnwath Road Riverside
London Borough of Wandsworth

Document Information
Application for Development Consent
As existing and proposed
South elevation
Book of plans - section 9
DCG-PP-386-CARRR-060011
January 2013
Thames Water Utilities Ltd 2008

Keyplan:
Survey licence number 100019345
Database right 2012. All rights reserved. Ordnance Survey on behalf of HMSO. © Crown Copyright and Mapping reproduced by permission of Ordnance Survey.

Location
London Borough of Wandsworth
Carnwath Road Riverside

Notes:
1. All dimensions and levels are approximate.

Plan
Scale 1:50

South elevation
Scale 1:50

West elevation
Scale 1:50

Ventilation column
15m high

Precast concrete panel cladding

Top of ventilation column 15m high

Base of ventilation column

Stainless steel inlays

Concrete sand blasted at short ends to reveal darker aggregate

Indicative London Borough of Wandsworth
Carnwath Road Riverside
Book of plans - section 9
Application for Development Consent
Ventilation column design intent

January 2013

DCO-PP-SX-CARRR-090012

INDICATIVE
Notes:
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay them out differently during construction depending on their preferred construction methods subject to any options 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. Barge berthing would either be against the river wall on a campshed, or at a jetty on a campshed. Both options are allowed for in the LLAU.

Location:
Carnwath Road Riverside
London Borough of Hammersmith & Fulham

Document Information:
Application for Development Consent
Construction phases - phase 1
Site setup & shaft construction
Book of plans - section 9
DCG-PP-366-CARRR-090014
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. Barge berthing would either be against the river wall on a campshed, or at a jetty on a campshed. Both options are allowed for in the LLAU.

Location
Carnwath Road Riverside
London Borough of Hammersmith & Fulham

Document Information
Application for Development Consent
Construction phases - phase 2
Tunnelling
Book of plans - section 9
DCO-PF-586-CARRR-090015
January 2013

Thames Tideway Tunnel
Creating a Board Multiple Use Scheme

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

ILLUSTRATIVE
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay 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. Barge berthing would either be against the river wall on a campshed, or at a jetty on a campshed.

Both options are allowed for in the LLAU.

Notes:
Any plans, drawings, designs and materials (materials) submitted by Thames Water Utilities Limited (Thames Water) as part of this application for Development Consent to the Planning Inspectorate are protected by copyright. You may only use this material (including making copies of it) in order to (a) inspect those plans, drawings, designs and materials at a more convenient time or place; or (b) to facilitate the exercise of a right to participate in the pre-examination or examination stages of the application which is available under the Planning Act 2008 and related regulations. Use for any other purpose is prohibited and further copies must not be made without the prior written consent of Thames Water.