ORIEL

St Pancras Hospital and Local Network substation - relocation option analysis

PROJECT NAME	**ORIEL**
ORIGINATOR	**BOUYGUES UK**
TITLE	**St Pancras Hospital and Local Network substation - relocation option analysis**

STAGE(s) (RIBA/BSRIA):	**5**	SUITABILITY CODE:	**S3**

ORL	BYG	EX	XX	TRP	J	000047	P01
PROJECT	ORIGINATOR	FUNCTIONAL BREAKDOWN	SPATIAL BREAKDOWN	FORM	DISCIPLINE	SEQUENCE NUMBER	REVISION

ORIEL

St Pancras Hospital and Local Network substation - relocation option analysis

Reference document: ORL-BYG-MTH-000065-Oriel Moorfields Eye Hospital Substation Locations-Options_P01

This document shows the option analysis for the relocation of both the UKPN hospital substation 24628 and local network substation 20340

- *Page 1 of the document shows that that both these substations are located within the footprint of the new ORIEL building and therefore must be temporary relocated within the St Pancras Hospital Site.*

Please note that:

  - *the relocated UKPN hospital substation 24628will continue feeding the retained estate on the St Pancras Hospital site – this substation will eventually be redundant upon completion of the KC(SPH)LP works*
  - *The relocated UKPN local network substation 20340 will eventually be accommodated within the new ORIEL building upon completion of the new structure of the building (by end 2025)*

- *Page 2 of the document shows the initial proposed relocation to the South of the Gatehouse – this location however clashes with the proposed footprint of the Plot A1 part of the KC(SPH)LP development on the St Pancras Hospital site*

- *Page 3 of the document shows an alternative location to the west of the River Crisis Center. This location restricts :*
  - *Camden & Islington Trust end users access to the south wing – pedestrian and vehicular;*
  - *the construction access to KC(SPH)LP's Plot A1 .*

- *Page 4 of the document shows the preferred and retained proposed relocation for both substations as it does not affect the construction of the ORIEL nor the KC(SPH)LP development.*

UKPN Network Substation 20340

C&I Trust Main intake and distribution switchgear

C&I Trust 650kVA standby generator

C&I Trust external bulk fuel tank

UKPN Substation 24628

EXT-211 Natural Stone Kerb/ Edging

EXT-126 Tactile Paving

EXT-441 Metal Handrail

EXT-441 Bench-Top Seat

5no. EXT-412 Bollard

EXT-491 Light Mast

EXT-471 Tree Grate

INTERFACE TO MEET ADJACENT SURFACES AT GRADE

EXT-491 Light Mast

EXT-471 Tree Grate

EXT-471 Tree Grate

EXT-492 Landscape Lighting

EXT-471 Tree Grate

EXT-122 Paving slabs - Norwegian shale Offerdal and Oppdal

EXT-123 Permeable paving - Marshalls Mistral Priora

EXT-124 Paving slabs - Granite

EXT-125 Corduroy tactile hazard warning surface

EXT-126 GH Form Dockline tactile

In Situ Casted Pavement

EXT-421 Sheffield M Bicycle stand

EXT-471 GH Form Dockline tree gr

EXT-441 Street life Rough & Ready

19.2 Proposed Spot Elevation

EXT-126 Tactile Paving

2no. EXT-491 Light Mast

EXT-461 Planter

EXT-441 Bench-Top Seat

EXT-491 Light Mast

EXT-492 Landscape Lighting

EXT-471 Tree Grate

EXT-492 Landscape Lighting

EXT-471 Tree Grate

4no. EXT-492 Landscape Lighting

EXT-471 Tree Grate

3no. EXT-471 Tree Grate

BOUYGUES UK

Drawing Reference	**ORL-BYG-MTH-000065-Oriel Moorfields Eye Hospital Substation Locations - Options_P01**	**Page**	**01 / 04**
Project	**ORIEL MOORIFIELDS EYE HOSPITAL**	**Scale**	1 : 600 @ A3
Drawing Title	**Substation Locations - Options**	**Date**	**06/10/2022 14:27:21**
Phase	**Existing Substation and Oriel Footprint**		

In confidence: Not to be circulated to other bidders

EXT-126 Tactile Paving

2no. EXT-491 Light Mast

EXT-461 Planter

EXT-441 Bench-Top Seat

EXT-491 Light Mast

EXT-492 Landscape Lighting

Temporary Substation
20340 Network Proposed Location

Temporary Substation
24628 Hospital Proposed Location

Drawing Reference	ORL-BYG-MTH-000065-Oriel Moorfields Eye Hospital Substation Locations - Options_P01	Page	02 / 04
Project	ORIEL MOORIFIELDS EYE HOSPITAL	Scale	1 : 200 @ A3
Drawing Title	Substation Locations - Options	Date	06/10/2022 14:27:22
Phase	Option 2 Substation Relocation		

BOUYGUES UK

In confidence: Not to be circulated to other bidders

EXT-126 Tactile Paving

2no. EXT-491 Light Mast

EXT-461 Planter

EXT-441 Bench-Top Seat

EXT-123 Permeable Paving

EXT-491 Light Mast

EXT-492 Landscape Lighting

Substations

Switchroom

Generator Room

Oil Tank

4000

4000

4000

4000

4244

7480

7507

5000

Drawing Reference	**ORL-BYG-MTH-000065-Oriel Moorfields Eye Hospital Substation Locations - Options_P01**	**Page**	**03 / 04**
Project	**ORIEL MOORIFIELDS EYE HOSPITAL**	**Scale**	1 : 200 @ A3
Drawing Title	**Substation Locations - Options**	**Date**	**06/10/2022 14:27:22**
Phase	**Option 3 Substation Relocation**		

BOUYGUES UK

In confidence: Not to be circulated to other bidders

Temporary Substation

Temporary Substation

EXT-126 Tactile Paving

2no. EXT-491 Light Mast

EXT-461 Planter

Bench-Top Seat

EXT-461 Planter

EXT-126 Permeable Paving

EXT-491 Light Mast

EXT-492 Landscape Lighting

New LV Switchroom in GRP Housing

Indicative loaction of New Generator

New Vehicle Barrier

Indicative location of bulk fuel tank (5400l size shown)

4000

4000

2500

5500

2975

2975

Drawing Reference	ORL-BYG-MTH-000065-Oriel Moorfields Eye Hospital Substation Locations - Options_P01	**Page**	04 / 04
Project	ORIEL MOORIFIELDS EYE HOSPITAL	**Scale**	1 : 200 @ A3
Drawing Title	Substation Locations - Options	**Date**	06/10/2022 14:27:23
Phase	Option 4 Preferred Relocation Option		

BOUYGUES UK

In confidence: Not to be circulated to other bidders