

**IMPERIAL COLLEGE LONDON**

**SOUTH KENSINGTON CAMPUS**

**DELIVERY AND LOADING GUIDE  
FOR SAFE APPLICATION OF MOBILE LIFTING  
EQUIPMENT WITHIN THE COLLEGE CAMPUS**

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Revision	Date	Details	Author
2	May 2017	General Revision	IACW
3	June 2020	General revision incorporating the site delivery of materials and vehicles over 12.0 metres, Minor Modification June 2020	IACW
4	May 2022	TBA	

## **1.0 Introduction**

The purpose of this document is to protect the staff, students, visitors and general public at Imperial College London (College), their assets and its environs, during lifting operations involving mobile cranes and tower cranes, by Contractors within the confines of the College. This includes the use of truck mounted lifting equipment, hydraulic access platforms forklifts and teleporters.

This specification defines areas within the College where there are restrictions on the use of lifting equipment, and notifications of hazard areas where it is recommended that no equipment lifting takes place or is only allowed to proceed with additional protection.

The College shall ensure that alternative provisions for means of escape in case of fire are provided, where necessary.

The specification does not apply to the loads on to a public highway, except where over College vaults.

The normal contractual obligations of the Contractor and lifting equipment supplier shall not be reduced by this specification and all lifting operations shall comply fully with the relevant legislation.

The Director of Estates Operations is responsible, on behalf of the College, for agreeing that the lifting operations may take place. The College Appointed Structural Engineer is the person appointed by the College to ensure that the requirements of this document are carried out.

## **2.0 Imperial College Policy Requirements**

### **2.1 Imperial College Requirements**

Imperial College policy is to comply with all current legislation for all lifting operations throughout all campuses. Imperial College also requires all personnel connected with the delivery and lifting operation to be suitably qualified.

### **2.2 Legislation Governing Lifting Operations**

**2.2.1** The Health and Safety at Work Act (1974).

**2.2.2** Lifting Operations and Lifting Equipment Regulations LOLER.

**2.2.3** Construction (Design and Management) Regulations 2015.

**2.2.4** The Provision and Use of Work Equipment Regulations (including all amendments and statutory implications). PUWER.

### **2.3 Imperial College Objectives**

The principal objective of Imperial College is to ensure that all lifting operations are carried out in a safe and efficient manner, with minimum disruption to the College Students, Staff and the general public, without increasing the risk to the College Community.

## **2.4 Imperial College Environmental considerations**

- 2.4.1** All engines shall be switched off when not in use, for the purposes of bringing into service, lifting operations or de-rigging of the crane and its associated vehicles. This applies to all engine powered equipment.
- 2.4.2** No vehicle shall be left unattended with the engine running.
- 2.4.3** No vehicle shall have its engine running when not in service.
- 2.4.4** All vehicles and mobile plant shall be securely locked when not in use.

## **3.0 Roles and Responsibilities**

### **3.1 Imperial College staff**

- 3.1.1** Director of Estates Operations, has the Final responsibility for agreeing the lift operation and date.
- 3.1.2** Project Manager  
Responsible for ensuring that all the necessary notifications and consents have been obtained prior to the lifting operation. The College Project Manager will pass all the information on to the College Appointed Engineer, for their comments. The College Project Manager, works for the Director of Estates Operations. The College Project Manager is responsible for ensuring that the Director of Estates Operations is fully informed in respect of all aspects relating to the specified lifting operation.

The College Project Manager shall ensure that all the products/equipment to be lifted, have been checked and passed fit for purpose.

The College Project Manager shall ensure that the Building Manager is fully aware of the impending lifting operations and has to advise the Building occupiers as necessary.

### **3.2 Imperial College Consultants**

- 3.2.1** The Consultants are responsible for ensuring the specified product is fit for purpose. This includes checking the products/ equipment to be lifted. Contact details will be provided to the College Appointed Engineer in case there are any queries to be raised. The College Appointed Engineer will be provided with all the contact details of the Consultants responsible for the works.
- 3.2.2** The College Appointed Engineer for the Lifting operation has to ensure that the College parameters are fully complied with and reports directly to the College's Project Manager, the Director of Estates Operations and the Head of Health and Safety-Estates Projects.

### **3.3 Imperial College Contractor's Duties**

- 3.3.1** The Contractor's Site Manager shall ensure that all the necessary

Documentation and consents have been obtained and sent to the College Project Manager in accordance with the table below. Note that this table is the minimum period time prior to notification of the use of any of the specified lifting equipment below:-

Crane lifting operations	Must be presented and agreed at the monthly Campus co-ordination meeting
All vehicles associated with Crane lifting operations, including the delivery vehicles.	Must be included in the Monthly Campus co-ordination meetings.
Truck mounted cranes delivering building materials. Long vehicles Over 12 metres must park in front of the "Skempton" building on Imperial College Road. Refer to the Campus layout for the location of long vehicles.	Two days clear notice to the Campus Car Park and Fleet Administrator.
Mobile Hydraulic access platforms for maintenance and repair	Must be presented and agreed at the monthly Campus co-ordination meeting
The use of fork lift and teleporters machines to move building materials either around the Campus or to deliver materials.	Two days clear notice to the Campus Car Park and Fleet Administrator.
Delivery of plant and equipment to the Campus	Two days clear notice to the Campus Car Park and Fleet Administrator.

The Contractor's site manager must ensure that the information presented is correct and includes all the vehicles have been correctly identified and the registration numbers provided to the Campus Car Park and Fleet administrator. Access to the Campus will be denied in the correct information is not provided, together with the associated Risk Assessment and Method Statement, in accordance with the above requirements.

- 3.3.2** The Contractor's Site Manager shall ensure that all the necessary Documentation and consents have been obtained and sent to the College Project Manager. The Contractor's site manager is responsible for ensuring that the Contractor's Safety Officer has checked all the necessary documentation prior to the College submission.
- 3.3.3** The Contractor's Safety Officer is responsible for the safety of all site lifting operations.
- 3.3.4** The Contractor's Site Manager shall ensure that all the requirements for the lifting operation are in place prior to the commencement of the works.

- 3.3.5** Failure to comply with the above requirements will result in the delivery being refused access to the Campus.

#### **4.0 Procedure for Approval of Contractors Lifting Operations**

##### **4.1 Notification**

Crane lifts should be discussed at the monthly Campus Co-ordination meeting so that they can be coordinated with any other works on-going around the Campus. Any emergency crane lifts should be discussed and agreed with the Director of Estates Operations.

The notification of deliveries that include the use of truck mounted cranes, fork - lifts and teleporters shall be notified to the College in accordance with the table in **3.3.1** above.

##### **4.2 Information to be provided by Imperial College**

- a) Issue suitable campus plan showing service tunnels and services where necessary to ensure that Contractor has adequate base information prior to ordering the lifting equipment. This can take the form of a whole campus drawing or local sketch of the area.
- b) The College will provide any additional information in respect of College escape routes, lifting over roofs and traffic management as required.

##### **4.3 Information to be provided by the Building Contractor**

This section applies to all Imperial College's Contractor's materials deliveries.

- a) The Use of all lorry mounted cranes including those used by material suppliers.
- b) The use of all forklifts and teleporters including those used by the Material Suppliers.
- c) The delivery of Plant and other Contractors equipment.
- d) The proposed location and the time of delivery must be agreed with the College in accordance with the table in 3.1 above.
- e) The requirements of section 4.4 below must be complied with for all Contractors' deliveries, where applicable.

##### **4.4 Information to be provided by the Lifting Contractor**

- a) This section applies to the use of mobile cranes and lorry mounted cranes.
- b) Define the type of lift, i.e. "Basic, Standard or Complex" (To BS 7121) and locate possible operations area.
- c) Provide full details of the total works to be carried out, including the procedure to remove the load from the lifting equipment and safely transport it (if required) to the final location. For example, when an item of equipment has to be passed through an opening into the building, how is it transported to its final resting place?
- d) Provide a full and detailed Method Statement for the complete lifting and handling operations at least 14 days prior to the commencement of the lift. This Method Statement, from the Contractor, will contain the following information:-
  - i. Delivery, Size and Type of equipment to be lifted from initial location to final location, including all secondary handling equipment required.
  - ii. The size and type of lifting equipment to be used.
  - iii. Full details of all the vehicles involved including all deliveries.
  - iv. Equipment size, location, outrigger reactions for all lifting equipment, and the service area required.
  - v. Test Certificates for all the lifting equipment to be used during the lifting operations, are to be provided by the lifting operations Contractor prior to the commencement of the erection and use of the lifting equipment on site.
  - vi. Safe working perimeters and distances around each lifting operation to form part of exclusion zones and materials handling zones for the Contractors delivering the goods. This will include all car parking spaces required. Full details, including protective fencing around the exclusion zone, to exclude all non-essential personnel.
  - vii. A list of competent people involved in the lift, together with their competencies, and the name and phone number of the person who will be in charge of the operation.
  - viii. Confirmation that all the necessary consents for the moving of abnormal loads have been applied for in good time.
- e) Define areas of College to form exclusion and working zones for the lifting operations.

#### **4.5 Duties Performed by the Main Contractor**

- 1) Define and agree a route for all plant and equipment to enter the College with the Director of Estates Operations.



- 2) Ensure that no other lifting operations are proposed that may block other areas of Imperial College campus roads at the same time. There are circumstances where more than one lift can be accommodated on the same campus; this is at the discretion of the Director of Estates Operations.
- 3) Ensure that the Director of Estates Operations has full knowledge of the lifting equipment and any implications.
- 4) Ensure that all the components to be erected or placed in position are fit for purpose. This includes all structural steelwork, plant and all other equipment.
- 5) Ensure that the College has consented to the lift taking place.
- 6) Ensure that the lifting equipment test certificates and insurance documentation are provided to the College Appointed Engineer prior to commencement of works.
- 7) Ensure that all the lifting operation and the necessary ancillary works are conducted in a safe and efficient manner and in accordance with the method statement.
- 8) Ensure the lifting zone is enclosed with HERAS fencing, 1.8m high.
- 9) Ensure that all deliveries to the Campus are properly managed and have the necessary protection for the personnel about the Campus, this could include the use of low level barriers and, or a Banksman in addition to the plant operator.
- 10) Report back to College on completion as necessary.

## **5.0 Requirements for Campus**

### **5.1 General Paved Areas**

#### **5.1.1 Ground Bearing Pressure**

The ground bearing pressure underneath the lifting equipment shall not exceed  $200\text{kN/m}^2$  (2 tons/ $\text{ft}^2$ ) in tarmac areas, and shall be reduced to  $100\text{kN/m}^2$  (1 ton/ $\text{ft}^2$ ) in areas of brick pavers. Areas of York and Concrete paving slabs shall not be used to provide support for outrigger reactions and are excluded to all wheeled traffic, except pushbikes, college service trolleys (catering) etc., and similar lightweight equipment. The use of heavily loaded pallet trucks is prohibited, except in circumstances agreed with the Director of Estates Operations. The only permitted exception to this is the access route for vehicles delivering to the rear of the Skempton building.

#### **5.1.2 Inspections**

Where applicable, i.e. when lifting equipment outrigger is adjacent to walls, building basements and the service tunnels, an inspection shall be

carried out by a College Appointed Engineer at least 3 days prior to the lifting equipment arriving on site and any structural defects noted. These notes should be passed to the College and a decision made by the Director of the Estates Operations as to whether the lift should proceed.

A recommendation for additional temporary propping and safety measures shall be made by the College Appointed Engineer, if necessary.

Upon successful completion of the lift and within three days of the lift taking place, the retaining walls, building basements and the service tunnels shall be re-inspected by the College Appointed Engineer and a report made to the College as required.

### **5.1.3 Lifting Procedures**

On the day of the lift the position and size of spread of pad assemblies shall be checked by the College Appointed Engineer, and no lift shall take place until this check has been carried out. Should the lifting equipment supplier be unable to achieve the specified and agreed spreader plates, the lift shall not take place.

The lifting operations shall be observed by the College Appointed Engineer, to ensure that the lifting equipment positions and routing through the campus are strictly adhered to.

## **6.0 Campus Guidance Notes**

### **6.1 South Kensington Campus**

#### **6.1.1 Access Routes**

The materials and lifting equipment shall gain access either from Prince Consort Road or Exhibition Road entrances, whichever provides the more suitable route.

**Note** – restricted width of Exhibition Road access 3.0m, restricted width of Prince Consort Road gates into Callander Road 2.8m.

There is no access through the Falmouth Gates.

#### **Specific Restrictions for Use of Lifting equipment in Various Areas**

#### **6.1.2 Service Tunnels**

The following requirements must be observed when planning and using heavy lifting equipment adjacent to and over existing service tunnels.

##### **6.1.2.1 Ground Bearing Pressure over Service Tunnels**

The ground bearing pressure underneath the lifting equipment outrigger pad shall not exceed 100kN/m<sup>2</sup> (1-ton/sq. ft)

##### **6.1.2.2 Inspections of Service Tunnels**

When deemed necessary an inspection of the service tunnels shall be carried out by the College Appointed Engineer at least 3 days prior to the lifting equipment arriving on site and any structural defects noted and reported, with recommendations, to the Director of Estates Operations. Within 3 days of the lift the College Appointed Engineer shall re-inspect the tunnels

### **6.1.3 Exclusion Zones**

The following areas are to be excluded from all lifting operations:-

- 1) Beit Quad
- 2) Princes Gardens
- 3) Queen's Lawn
- 4) The paved area between Queen's Lawn, College Library and Sherfield Building
- 5) Access through Falmouth Gates is not permitted
- 6) Lifting operations that pass through the trees adjacent to Queen's Lawn are prohibited without the expressed written permission of the Director of Estates Operations Facilities.

**NB There** is two protected routes for hand operated pallet trucks, as shown on the campus drawing. These are the only approved routes, for pallet truck delivery to Queen's Lawn and Beit Quad.

### **6.1.4 Basement adjacent to Lifting Area**

The existing retaining walls to basements may not have been designed for full HGV loading and it is therefore required to reduce the ground bearing pressure to  $100\text{kNm}^2$  (1ton f<sup>2</sup>)

### **6.1.5 Inspection of Basement Walls**

When deemed necessary an inspection of the basement walls shall be carried out by the College Appointed Engineer at least 3 days prior to the lifting equipment arriving on site and any structural defects noted and reported, with recommendations, to the Director of the Estates Facilities.

Within 3 days of the lift, the College Appointed Engineer shall re-inspect the basement walls.

### **6.1.6 Unsuitable Areas**

The paved area between Sherfield Building and Queen's Lawn

The area in the grounds of Eastside and Southside, known as Princes

Gardens is unsuitable for the use of mobile lifting equipment. This includes the pavement to the rear of the Princess Gate Buildings.

The area enclosed by Beit Quad.

**Please note:**

The road in front of Eastside is suitable for the use of mobile lifting equipment.

**6.1.7 Noise restrictions**

The permitted working times for the area adjacent to Wells Way and Armstrong Road.

Monday to Friday: - 8.00 am – 8.00 pm

Saturdays: - 8.00 am – 6.00 pm

Sundays: - 9.00 am – 1.00 pm.

All lifting operations must finish in time to be clear from the College by 2.00 pm on a Sunday.

The College reserves the right to impose further noise restrictions as necessary (e.g. during College examinations).

**6.1.8 Hazard and Restricted Areas**

In certain hazard areas it is recommended that no lifting equipment lift takes place or is allowed to proceed over these areas until such time as further additional protection is provided,  
E.g. the gas bottle store adjacent to Huxley Building and/or bulk nitrogen stores, electricity substation etc. Refer to Campus map.

**7.0 Procedure to be Adopted Prior to Lifting Operations being Approved**

**7.1 Procurement Specification Amendments**

Many items of plant have specified lifting or attachment points where the attachment is provided by the manufacturer. Test certificates for these attachments must be provided prior to the machine being delivered on site and the requirement for this information should be contained within the procurement documentation. Clause for procurement specification *“where attachment points are provide by the equipment manufacturer, test certification and, if necessary, test and design information should be provided prior to the order being placed”*. *The equipment shall be delivered with the necessary certification if the lifting attachments are fixed in position and, if not, the specified lifting attachment shall be provided with current test certification.”*

**7.2 Equipment to be lifted – Information Required.**

The maximum weight of the unit to be lifted shall be provided, together with any other lifting requirements, in a timely manner to ensure that the lifting operation on site can be carried out successfully. The required test certification for the lifting attachments shall be provided. Full details of the suspension points shall be provided.

### **7.3 Location of Lifting Operation**

The proposed location for the lifting operation, together with any additional areas that may be required, shall be specified as soon as is practical to the College. This includes obtaining agreement from the the Director of Estates Operations, to ensure that the necessary precautions are put in place during the crane lift. These can include managing the College fire route, lifting over lightweight roofing, or any other requirements the College may add.

### **7.4 College Agreements**

The final location for the crane and ancillary traffic will be agreed with the Director of Estates Operations as soon as is practical.  
The minimum period of notice for a lifting operation using a mobile crane shall be three weeks.

Information to be provided:-

- a) Size and type of crane to be used
- b) The maximum outrigger reaction
- c) The size of spreader to be provided
- d) The number of vehicles in attendance
- e) Are there any supporting operations
- f) The anticipated duration of the lifting operations
- g) Is there a requirement for a truck mounted crane for additional lifts.
- h) The location of the Heras temporary enclosure
- j) The route of the load from pickup to final position

The College will confirm that all the necessary safety procedures have been put in place. This includes the following:-

- a) The access and egress routes for the mobile crane is agreed
- b) The access and egress routes have been agreed for all plant deliveries and removal of redundant equipment.
- c) The risk below the moving load is minimised.  
For example, where lifting over glazed roofing, there is nobody underneath. No loads to be left suspended for greater time than is

necessary to ensure safe lifting and placing.

## **7.5 Information to be Provided**

During the week before the lift, ensure that those directing the lifting operation are aware of College requirement to see all the normal safety certificates for the crane and its' lifting equipment. The check of the crane safety certificate will be directly related to the chassis number of the crane (This is the hardest element to change. Plant numbers and vehicle registration plates can be moved from machine to machine).

## **8.0 On the day procedures**

### **8.1 College Requirements**

The normal college time restrictions apply. The placing of spreader mats etc. may not rely on the main crane and this can proceed, usually using a truck mounted hydraulic arm with hook, subject to satisfactory test and operator's certificates being available. The out rigger reactions and the necessary load spreader mat defined. This requirement applies to the use of all lorry mounted cranes

### **8.2 Crane Certification**

Before the crane is allowed to proceed to its final location copies of the relevant test certificates shall be provided for verification by the College Appointed Engineer. The College Appointed Engineer shall check all certificates for lifting equipment and competency certification for all those involved in lifting operations.

### **8.3 Lifting Attachments**

Prior to any equipment being lifted, copies of the necessary test certificates shall be provided where attachments or attachment points are provided. This requirement only applies to attachment points. Where the items to be lifted are supported in slings taking the entire load, there is no requirement for additional certification.

### **8.4 College Representative's Report**

At the end of the lift, when the crane has been removed and no damaged to ground apparent, a simple text message shall be sent to both the Facilities and Project Directors as required. Should there be a requirement to report, this will be issued as soon as is practically possible after the event.

### **8.5 Other Recommendations**

There is currently, in the crane procedures guide, a requirement for all lifting operations to be enclosed in Heras fencing. This requirement must be adhered to. College staff and students will enter any other barrier system and this is unacceptable.

## **9.0 Procedure to be Observed During Lifting Operations**

### **9.1 Safety Barriers**

- 9.1.1** Erect and ensure that non-essential personnel exclusion zone is satisfactory.
- 9.1.2** Ensure that no previously agreed “as necessary Means of Escape in case of Fire” routes are blocked.
- 9.1.3** Do not exceed area agreed with the College for the lifting operations.
- 9.1.4** Ensure that all the escape routes and other exits that have an egress, within the lifting operations enclosure, have been locked off by Security.
- 9.1.5** The Security Office must be informed when all lifting operations are complete and the crane is removed.

### **9.2 Crane**

- 9.2.1** Insurance and Rigging Detail
- 9.2.2** Provide details of insurance, safety certificates, etc. for the lifting equipment to be used.
- 9.2.3** Ensure that the position and size outrigger load spreaders are as per the agreed Method Statement and confirmed by the College Appointed Engineer. When this has been confirmed, the agreed lift(s) may take place.

### **9.3 Acceptance by College**

No lifting operation shall take place within any College Campus until the necessary requirements above have been agreed by the College Appointed Engineer.

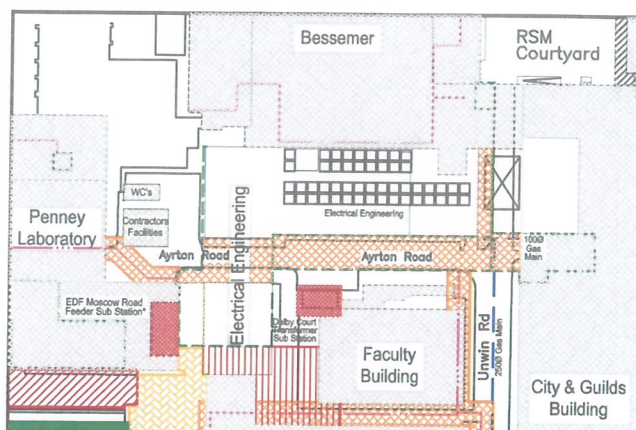
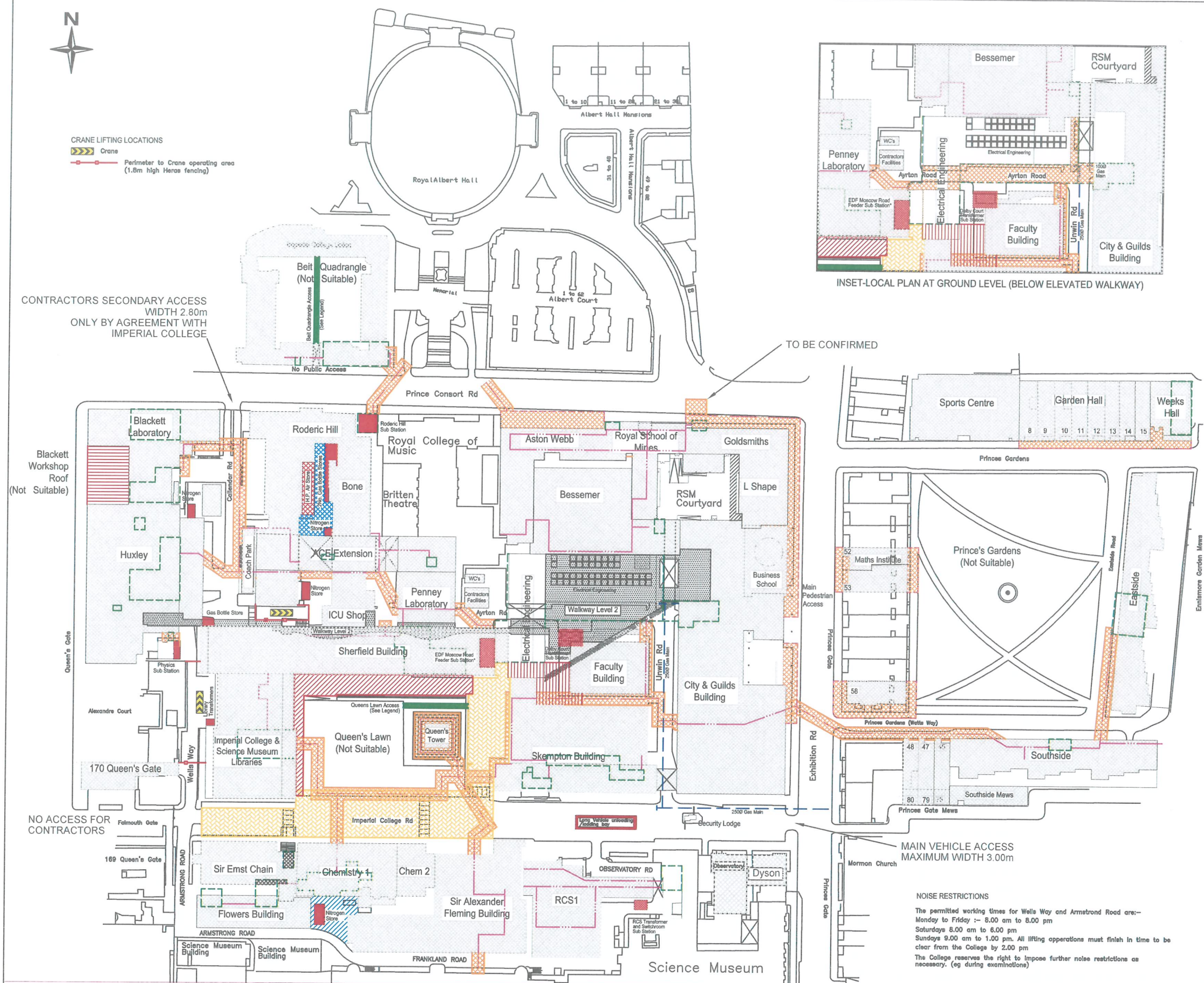




CRANE LIFTING LOCATIONS

- Crane
- Perimeter to Crane operating area (1.6m high Heras fencing)

CONTRACTORS SECONDARY ACCESS  
WIDTH 2.80m  
ONLY BY AGREEMENT WITH  
IMPERIAL COLLEGE



INSET-LOCAL PLAN AT GROUND LEVEL (BELOW ELEVATED WALKWAY)

TO BE CONFIRMED

Legend

- Tunnel Centrelines
- Tunnel Protection Zones (100KN/m<sup>2</sup>)
- Block Paved Areas (100KN/m<sup>2</sup>)
- Wheeled Traffic Prohibited Zones
- Area with Water Tanks under (50KN/m<sup>2</sup>)
- Bone Courtyard (Not Suitable)
- Blackett Workshop Roof (Not Suitable)
- Area between Faculty, Skempton and Electrical Engineering Buildings (Not Suitable)
- 2m Max. Access to Queens Lawn and Belt Quadrangle for hand propelled pallet trucks ONLY
- Ground Level Gas or Nitrogen Stores or Electrical Sub Stations
- Electrical Sub Stations below buildings
- High Pressure Air Stores on roof
- Basements
- Basement Protection Zone (100KN/m<sup>2</sup>)
- Vaults
- Vaults Protection Zones (100KN/m<sup>2</sup>)

\* EDF MOSCOW ROAD SUB STATION  
AN EXTENSIVE ARRAY OF CABLES ARE ROUTED TO AND FROM THE EDF NETWORKS MOSCOW ROAD FEEDER SUBSTATION, INCLUDING 4 x 22KV CABLES. FOR DETAILS OF THESE AND OTHER EDF CABLES IN ADJOINING ROADS SEE EDF DRAWINGS

TABLE OF LOCATIONS AND SAFE BEARING CAPACITIES

ROAD	SURFACE	CAUTION	SAFE BEARING CAPACITY
Imperial College Road	Tarmac Block Paving		200 KN/m <sup>2</sup> 100 KN/m <sup>2</sup>
Unwin Road	Tarmac	250# Gas Main (300 below surface)	100 KN/m <sup>2</sup>
Ayrton Road (Under Walkway)	Tarmac	Service Tunnels and Plant Rooms	
Ayrton Road between Collender Road and ICU Shop	Tarmac		200 KN/m <sup>2</sup>
Collender Road	Tarmac	Service Tunnels	100 KN/m <sup>2</sup>
Wells Way	Tarmac		200 KN/m <sup>2</sup>
Armstrong Road	Tarmac	Adjacent Buildings	100 KN/m <sup>2</sup>
Princes Gardens, Wotta Way and Eastside Road		Adjacent Buildings	100 KN/m <sup>2</sup>
RSM Courtyard	Tarmac		200 KN/m <sup>2</sup>
Chemistry Block Loading Dock Area	Tarmac /Concrete	Underground Water Tanks	50 KN/m <sup>2</sup>
Tunnel Protection Zones			100 KN/m <sup>2</sup>
Bone Courtyard	Tarmac /Concrete	Not Suitable (Gas Bottle Stores)	

AREAS NOT TO BE USED TO SUPPORT OUTRIGGER REACTIONS

- All pavements and manhole covers within the campus.
- Queens Lawn
- Princes Gardens and path to rear of Princes gate
- Belt Quadrangle except green route

NOTES

- No lifts to pass over HV Transformers in Wells Way.
- No lifts to pass over Huxley Gas Bottle Store without additional protection to the gas bottles.
- No lifting over bulk Nitrogen Stores.
- No wheeled traffic permitted with the exception of catering trolleys etc. in stabled areas between the following:-
  - a) Sherfield Building and Queens Lawn.
  - b) The Libraries Building and Queens Lawn.
  - c) Blackett Workshop Roof.
  - d) Area between Faculty, Skempton and Electrical Engineering Buildings
- No wheeled traffic permitted with the exception of catering trolleys etc. within the following:-
  - a) Belt Quadrangle
  - b) Princes Gardens
  - c) Electrical Engineering Walkway
  - d) Access Ramp Walkway Level adjacent and under Faculty Building

NOISE RESTRICTIONS

The permitted working times for Wells Way and Armstrong Road are:-  
Monday to Friday :- 8.00 am to 8.00 pm  
Saturdays 8.00 am to 6.00 pm  
Sundays 9.00 am to 1.00 pm. All lifting operations must finish in time to be clear from the College by 2.00 pm  
The College reserves the right to impose further noise restrictions as necessary, (eg during examinations)

Revision	Description	Date
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Imperial College  
London

Support Services  
Estates

South Kensington Campus London SW7 2AZ  
Tel: 020 7594 1707 Fax: 020 7594 8925

Project

Title  
SOUTH KENSINGTON CAMPUS  
CRANE LIFT ROUTES  
AND RESTRICTIONS

Drawn by	Checked	File
gm		
Drawing Number	Revision	Scale
		1:2000 @ A3
		Date