

Case Study **Royal Hospital Chelsea** **Carriageway & Drainage Project**

The Royal Hospital Chelsea is a retirement and nursing home for 300 retired British soldiers. The South Grounds of the hospital not only provide a tranquil sanctuary for the Chelsea Pensioners, but host the prestigious Chelsea Flower Show, attracting more than 157,000 visitors every May. By 2014, there were two issues affecting use and access across the site; the existing asphalt was well worn and ageing, and an inadequate drainage system was causing continual flooding issues.

Marlborough constructed 10,000m² of carriageway and upsized the drainage network carrying out all works recycled in-situ which helped reduce the project timeline by 50%



Royal Hospital Chelsea Challenge

The Royal Hospital Chelsea grounds is a unique site with an unusual demand on its infrastructure. It is dormant for most of the year with a few small private functions, until it hosts the Chelsea Flower Show, where 800 people spend 33 days building 20 show gardens. During this time, many heavy construction vehicles and up 400 tonnes of materials are dropped off.

The Royal Hospital Chelsea wanted a durable carriageway and modern drainage system solution to last for years to come.

Fact File

Client: The Royal Hospital Chelsea

Client Contract: Royal Hospital Chelsea in partnership with Project Centre

Date: September 2013 - February 2014

Duration: 6 months

Project Investment: £2 million

Project: Reconstructing a 10,000m² carriageway involving:

- Upgrading 10,000m² of new carriageway
- Laying 884 tonnes of 10mm supercolour exposed material
- Installing 3km of ornamental kerbs and channel blocks
- Upsizing the drainage network across the site
- Increasing the storm water capacity

Challenges:

- A central London location
- Conservation area with many 300 year old protected trees
- Long lead times of 2-3 hours+ to get materials on-site

Team:

- 20 Operatives working on drainage, kerbing and surfacing
- 1 Project Manager
- 1 Site Foreman

Client savings:

- Arisings reduced by 96%
- Lorry movement reduced by 87%
- Recycling in-situ reduced timelines by 50%

Marlborough's Carriageway and Drainage Solution

Marlborough's 25 years' experience of building carriageways, whilst overcoming on-site operational issues of large drainage projects, put them in a strong position. Marlborough's Operatives had previous experience of operating recycling machines, hand laying ornamental granite kerbs, whilst their teams of Drainage Specialists could lay new drainage and modify existing areas.



Marlborough have more than 410 Operatives undertaking all areas of surfacing work, who each take immense pride in their work.

"Marlborough nurture and attract people who take care and have pride in their work. Several gangs of Operatives worked tirelessly for 6 months to reconstruct drainage networks, lay more than 3km of high quality bespoke granite kerbs and granite channels blocks to ensure positive drainage. The technical compliance, attention to detail and level of quality finish along the entire carriageway was exceptional".

Mark Chiverrell, Technical Director
Project Centre

Marlborough's Foremen combine years' of industry knowledge and "on the tools" practical work experience.

They are proactive in helping to solve design or site problems upfront and work closely with our team of Project Managers to come up with alternative design solutions.

Once work commences they work hard to keep the project on track and on budget.

Every member of Marlborough's Senior Management team takes personal ownership from start to finish for each project. Like all of our 480+ staff, they work in a straightforward and practical way.

"Matt Revell commits wholeheartedly to projects from conception to completion. He takes the time to listen, understand, and consider all the options before offering appropriate ideas and solutions that are cost effective and practical".

Mark Chiverrell, Technical Director
Project Centre

Marlborough is a dynamic, independent civil engineering company with over 25 years' experience in every aspect of civil engineering work. We have a pool of more than 480 multi-skilled, longstanding staff, and our own dedicated in-house Project Managers. Our supportive and highly experienced Senior Management team get involved from day one, and are always on-hand to provide exceptional customer care.

We're passionate about delivery and committed to doing what we say we will, whatever it takes.


marlborough
we understand, we deliver



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