

The measure of your success

Accurate and reliable survey information is essential to any land, engineering or architectural project if it is to succeed. It is the foundation for many other activities and the key to integrated planning.



At Survey Solutions, we provide accurate detailed information on projects of all sizes in any location ranging from single dwellings to refurbishment of hospitals or garden plots to major city redevelopments.

All our survey teams are highly trained and equipped with the latest surveying technology along with fully equipped vehicles. Instruments include: Global Positioning Systems (GPS), robotic total stations, digital levels and reflectorless theodolites.

Survey Solutions provide a fully integrated solution to all surveying, mapping and positioning requirements for land and buildings, above and below ground, throughout the UK and Europe.

As one of the largest independent survey companies in Britain, with a proven track record of providing accurate and reliable survey data, we provide a one-stop-shop approach to surveying.

We undertake the full range of land and measured building surveys and all aspects of underground investigations.





# Land Surveying

Using the very latest technology including robotic instruments, reflectorless lasers and survey quality global positioning systems we provide our clients and their consultants with dedicated, accurate and economical survey solutions.



## TOPOGRAPHICAL

We undertake to complete all our surveys using the most professional approach to produce clear and reliable information which can be easily accessed and understood by all parties using the data

- 3d Digital Terrain Modelling
- OS GPS Active Network
- Contouring and levelling
- Large and small scale mapping
- Inshore hydrographical surveys
- Tree tagging and schedules
- River sections
- Flood risk analysis data
- Boundary disputes
- GPS survey and control

## ENGINEERING

With a strong background in Civil Engineering we are experienced in providing accurate and task specific data to support the engineering and design of projects from their inception through to completion.

- Volumes calculations
- Stockpile surveys
- Cut/Fill calculations
- Areas calculations
- Land parcel surveys
- Coastal erosion monitoring
- Noise Surveys
- Setting-out
- As-built record surveys
- Monitoring for movement

# One of the largest independent survey companies in the UK

## In brief



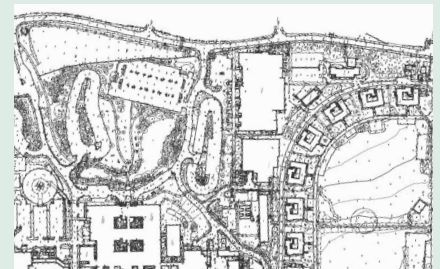
### Rannoch Castle, Scotland

One of the largest and most 'interesting' topographical surveys we completed was the Rannoch Estate in the Highlands of Scotland. Surveying the site was extremely challenging not only due to the very rugged terrain but also the sub zero winter and the heavy snow which cut off the only road in and out, stranding our surveyors on site for several days.



### London outlook

We have built up a very strong presence in the City of London providing the full range of surveying services at many prestigious and historic sites. Some of the more notable projects are: London Eye, Victoria and Albert Museum, Chelsea Barracks, Millennium Bridge, National Gallery, London Aquarium and The Royal Military Academy at Greenwich.



### Colchester Hospital

Survey Solutions were instructed to provide a topographical, measured building and underground utilities survey of the major existing Hospital site in Essex. The entire project had to be completed whilst the hospital was fully operational and without interrupting the running of the facility. This meant our surveyors had to work around patients and staff, days and nights in the wards, operating theatres and even the morgue.

# Buildings Surveying

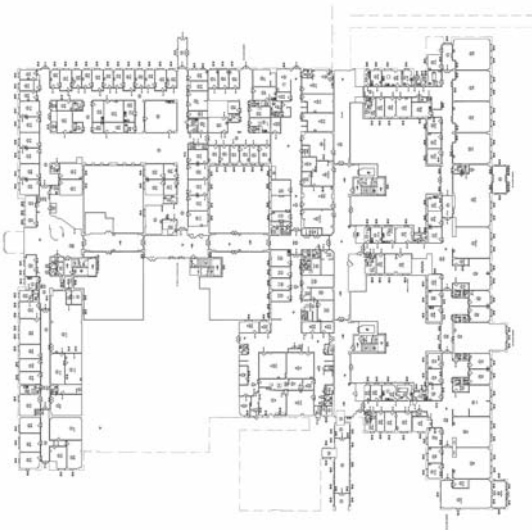
Survey Solutions can provide the complete range of surveying services for measured buildings including floor plans, sections, structural details and elevations.

Each element of the property can be surveyed independently or as part of a fully connected co-ordinated survey.

## FLOOR PLANS

Survey Solutions can produce fully-connected measured floor plans as standalone drawings or as part of a fully controlled survey package of the structure and surrounding areas. With survey controls established throughout the building we can reliably link all floors to a common datum in position and level to build a detailed 3d drawing of the property.

The survey can extend to all areas within the structure, from the sub-basements to the roof space, showing all voids, lifts and service ducts.



## ELEVATIONS

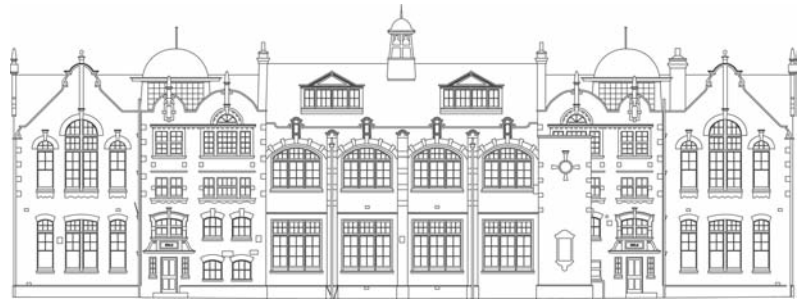
Using the latest non-contact laser surveying instruments, Survey Solutions are able to undertake very accurate, detailed and fully measured elevations of building and structures showing; architectural details, construction materials, dimensions and levels.

This data can then reference the floor plans and topographical survey to build a 3d image of the structure.

## STRUCTURAL DETAILS

As a task specific investigation or part of an integrated measured building project, Survey Solutions can provide accurate details of key elements in buildings and structures. Taking detail observations we can produce sections through any alignment to clearly show the various elements and how they relate to each part of the structure in position and level.

- Cross sections
- Structural details
- Vertical checks
- Column alignment
- Levels and changes
- Lift and Stair design



Unlike others, we provide a standard £5m PI insurance



### Monaco

Survey Solutions recently completed a full detailed measured floor plan survey for possibly one of the most expensive apartments in the world. The property, which overlooks Monaco Harbour, was surveyed for one of our many high profile Clients and is part of their worldwide portfolio of properties.



### History and heritage

Having built a strong reputation over many years for providing high quality, accurate and detailed information we are often asked to produce surveys for heritage buildings and listed properties which require a great deal of care and a specialised approach to the survey. Recent examples have included Somerleyton Hall, Norwich Castle, Holkham Hall, Corpus Christi College Cambridge and Holy Trinity Church London.

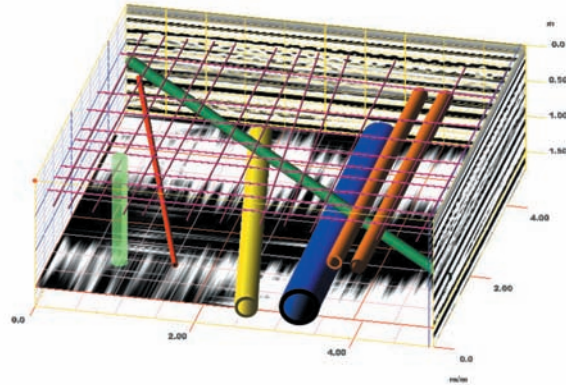
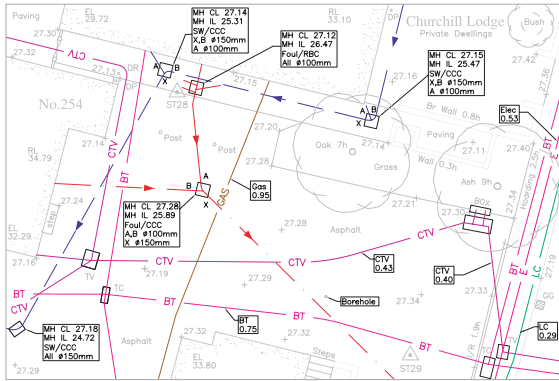


### Birmingham and beyond

Our Midlands office covers a large geographical area of the country and takes in some of the major cities including Birmingham where we have provided our clients with accurate survey information for many of the landmark projects in the city such as the Bullring, Cube, Mailbox and Birmingham International Airport.

# Underground Surveying

All our underground utilities survey teams are fully equipped with the latest technology to locate and trace the full range of buried features, infrastructure and services. Each team has both multi-frequency electro-magnetic equipment and dual frequency 3D Ground Penetrating Radar (GPR).



## UTILITIES LOCATION

- Electro-Magnetic methods and 3D Ground Penetrating Radar (GPR)
- Electricity cables, telecommunications, water pipes, fuel lines, cable TV drainage runs, oil lines, gas mains, fibre optics
- CCTV surveys of pipe lines and drainage
- Public utilities records and data searched
- Full drainage surveys including: cover & invert levels, pipe sizes, pipe runs, connections, manhole cards, CCTV

## SITE INVESTIGATIONS

- Site searches for buried anomalies and features prior to construction
- Position of underground features including: voids, wells, cellars, storage tanks
- Locate evidence of previous land use such as buried structures, foundations, graves
- Mapping of rebar positions, reinforcement mesh and steelworks
- Noise surveys including: noise impact, road traffic, rail, environmental, construction
- Identifying 'clear' areas for excavations, trial pits and boreholes

## CCTV SURVEYS

- Real time and post processed results
- Remote visual inspections
- Pipe condition assessment
- Full digital imagery on DVD
- Detailed technical report

## SEWER MAINTENANCE

- High Pressure Jetting
- Pipe unblocking and clearing
- Managed maintenance programs
- Evacuation Works
- De-scaling, fat/grease removal
- Root Cutting
- Pre-Cleansing

All aspects of surveying above and below ground



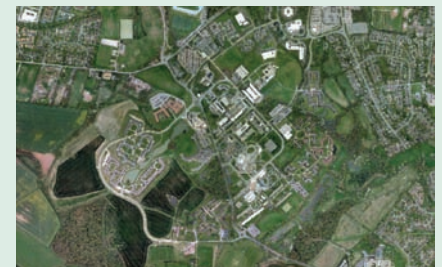
### Above and below

Underground mapping of utilities and services along with CCTV investigations and condition reports are an increasingly important part of Survey Solutions range as new and more advanced technologies become available. When combined with a Topographical Survey this provides our clients and their consultants with comprehensive and reliable digital information to be better able to assess all aspect of a development at an early stage.



### Air side

With a growing number of survey projects at Airports across the country we have gained a solid reputation and wealth of experience working on site and 'air side' for commercial, passenger and military locations. We have recently provided survey support at Airports in Coventry, Norwich and the terminal buildings at Birmingham International Airport. We have also completed projects at RAF Lakenheath and RAF Mildenhall.



### Education

Education has been an extremely busy sector of work for us over the years and we have provided surveys at numerous schools, colleges and universities in all area of Great Britain. Some of the more notable universities have included; Cambridge, Oxford, Plymouth, UEA, St Andrews and Warwick (photo above).



# SURVEY SOLUTIONS



## Some of our clients

- AIG ENGINEERING GROUP
- AMEC
- ARUP
- ASDA
- ASTON VILLA FOOTBALL CLUB
- BALFOUR BEATTY
- BARRATT HOMES
- BELL INGRAM DESIGN
- BIDWELL PROPERTY CONSULTANTS
- BP OIL
- BRADFORD & BINGLEY BUILDING SOCIETY
- BRITISH SUGAR
- BURO HAPPOLD
- CANDY & CANDY
- CAPITA SYMONDS
- CARILLION
- COVENTRY CITY COUNCIL
- DAVID WILSON HOMES
- DTZ
- EAST OF ENGLAND CO OP SOCIETY
- EAST SUSSEX COUNTY COUNCIL
- ENVIRONMENTAL AGENCY
- ERM
- EVERSHED SOLICITORS
- EXMOOR NATIONAL PARK AUTHORITY
- FORESTRY COMMISSION
- GALLIFORD TRY
- INTERSERVE
- JACOBS
- JARVIS PROJECTS
- KIER
- LAING O'ROURKE
- LIDL
- LONDON BOROUGH OF NEWHAM
- MLM CONSULTING ENGINEERS
- MOUCHEL
- NORTH OF SCOTLAND WATER AUTHORITY
- NORTHAMPTONSHIRE COUNTY COUNCIL
- NORTHUMBRIA ENVIRONMENTAL MANAGEMENT
- PAPWORTH HOSPITAL NHS TRUST
- PERSIMMON HOMES
- PORT OF FELIXSTOWE
- PROTECTION AGENCY
- R G CARTER
- REDROW HOMES
- RICHARD JACKSON
- ROK
- SARGENT CANCER CARE FOR CHILDREN
- SAVILLS
- SCOTTISH ENVIRONMENTAL
- SCOTTISH ENVIRONMENTAL PROTECTION AGENCY
- SCOTTISH & SOUTHERN ENERGY
- SCOTTISH WATER
- SMIROS & SMIROS ARCHITECTS (NEW YORK)
- STAFFORDSHIRE COUNTY COUNCIL
- TAMDOWN REGENERATION
- TAYLOR WIMPEY
- TESCO
- TRANSCO
- UNIVERSITY OF ESSEX
- UNIVERSITY OF ST. ANDREWS
- VIRIDOR WASTE MANAGEMENT
- VOLVO
- WATERMAN ENGINEERING CONSULTANTS
- WSP GROUP

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