

## **Mobile CAD Surveying and Sitemaster Building**

The National Institute of Standards and Technology study [NIST CGR 04-867](#), estimates the cost of inadequate interoperability in the U.S. capital facilities industry to be \$15.8 billion per year, with building owners bearing the majority of those costs. How much of the \$15.8 billion did you pay last year?

[Mobile CAD Surveying](#) is the building surveying expert. Whether it is quick turn-around you need for a specific project or simply on-going updates to as-built floor plans, Mobile CAD Surveying and Sitemaster Building delivers.

From field to finish, we are consistently incorporating new technologies and unique processes to maximise our clients' investment in building intelligence to ultimately save them time and money. Clients like the US Navy, T Mobile, Cartiers, Jones Lang LaSalle, Clark Nexsen, EllisDon etc have already experienced the Mobile CAD Surveying and [Sitemaster Building](#) difference.

A few projects carried out with Mobile CAD Surveying and Sitemaster Building, 3000 Bank of America's, 150 surveys on WAMU branches following the take over by Morgan Chase, 2.1million sq ft of survey work at Navy public Works Centre in Norfolk Virginia, 15,000,000 plus sq ft of German Anglican Church premises, plus a 4 year project is under negotiation at the moment in Europe for 100,000,000 sq ft of surveys. Schools for The Future Programmes in the UK along with a 2 year measuring contracts for the BBC to name but a few.

Deploying expert personnel, following industry best practices and BOMA standards, [Mobile CAD Surveying](#) delivers:

- Laser-precise, 100% accurate building floor plans and inspection drawings.
- Digital, AutoCAD-compatible drawings.
- Excel-compatible itemized reports.
- Embedded digital photos of key building components.

### **Take out the guesswork**

With Mobile CAD Surveying laser-precise, field created as-builts and existing condition floor plans, what you see in a building is exactly what you get. Using state of the art technologies, GiveMePower delivers detailed accurate building information including walls, openings, windows, areas, perimeters, widths, heights while automatically storing room and building information.

### **Know that it's done on time and accurately.**

Survey, measure and draw in real time in ONE Operation. You get exact square footage, detailed room and building data, and accurate mechanical systems information. Every time!

### **Reduce costs**

Guarantee precise, intelligent data. Rework, delays, poor quality, incomplete, or inaccurate plans and building information costs everyone in the entire design/build chain valuable time and money. Mobile CAD Surveying and Sitemaster Building delivers much more than sketches, redrawn plans or simple line drawings.

## **Instant Productivity**

Ready, reliable building data in easy to use layers that you can use instantly. Empower workers with real data and get everyone working collaboratively on the same page. Proven to increase productivity by up to 1000% compared to time consuming and labour intensive manual methods, Mobile CAD Surveying delivers results with immediate payback.

With Mobile CAD Surveying building surveys, **Architects, Engineers and Construction Managers** can be more productive, deliver on budget and work to meet deadlines. With Mobile CAD Surveying and [Sitemaster Building](#) laser-precise, field-created as-builts and existing condition floor plans, what you see in a building is exactly what you get. Instantly useable, files are delivered in AutoCAD® DWG® and/or DXF® format, along with optional BMP, PDF, and Excel compatible stored room and building information. No surprises, means no delays and no hidden costs. You get exact square footage, detailed room and building data, and accurate mechanical information. Every time. Before you start a new renovation, upgrade or reconstruction project, get Mobile CAD Surveying as-built floor plans and gain the competitive advantage in knowing exactly what you are dealing with before you design, estimate or bid.

## **The Mobile CAD Surveying Advantage**

- Lower Your Bids with Accurate Cost Estimates
- Save on Materials and Time
- Design Immediately
- Schedule Workers More Productively
- Reduce Cost Over-runs and Overages
- Mitigate Rebuilds and Rework
- Reduce Man-hours on Backend Design

**Facility Managers** can manage complex infrastructure visually through detailed floor plans of a building with a click of a mouse. What you see in a building is exactly what you get. Ready, reliable building data in easy to use layers that you can use instantly. Exact measurements, detailed room and building data, and accurate systems information give you the answers to the tough questions. All the time! Digital files are delivered in AutoCAD® DWG® and/or DXF® format, along with optional BMP, PDF, and Excel compatible stored room and building information. Upload building data directly to existing FM, CMMS or CAFM software systems for capital planning, budgeting and asset inventory management.

Before you start a new expansion, capital planning or renovation project, get Mobile CAD Surveying as-built floor plans and gain the competitive advantage in knowing exactly what you are dealing with before you buy, contract or send to tender.

## **The Mobile CAD Surveying Advantage**

- Schedule planned and deferred maintenance reliably.
- Manage your facilities visually through a floor plan.
- Save on materials and labour costs.
- Forecast budgeting needs efficiently and dependably.
- Accurately report on assets.
- Make informed decisions with relevant building data.
- Reduce worker downtime.
- Avoid cost over-runs and time delays.
- Mitigate rebuilds and rework.
- Generate tender packages with ease.
- Get better bids on outsourced work.

With **Commercial office space** commanding a premium, building owners and managers can increase revenues by finding more gross rentable square footage space with Mobile CAD Surveying BOMA Plans. Per ANSI Standards, a resurvey to BOMA 1996 Standards typically yields a 2-8% increase in usable and rentable areas, which more than offsets the direct costs of a re-survey. Tenant discrepancies with occupancy costs based on square footage are mitigated, and building information for lease plans and leasehold improvements are current and easily accessible.

The Mobile CAD Surveying BOMA Plans are client-friendly and serve as an excellent addition to the sales and marketing toolkit, or space verifications of leased property. Special considerations in the wording of measurements relative to existing tenant contracts are easily accommodated. Items clearly marked on the BOMA floor plan include:

- Walls, windows and doors.
- All rooms are clearly labelled and dimensioned.
- Floor and building common areas, and vertical penetrations.
- Usable and rentable areas.
- Symbols showing key building component such as plumbing fixtures, kitchen appliances, heating fixtures, elevators, water fountains, etc.

With "**Point-Shoot-Drawn**" Simplicity and Speed, Detailed AutoCAD®-Compatible Floor Plans are Created In Real-Time Using Handheld Lasers Using Bluetooth® wireless technology and Leica DISTO™ or Hilti PD38 portable lasers to take precise measurements within a tolerance of +/-0.1 inch over 650 feet.

By simply pointing the laser, measurements are transferred instantly to create architecturally-rich floor plans, complete with "intelligent" walls, windows, doors, openings, areas, symbols and extended inspection details such as digital photos are added to the drawings in real-time on tablet PCs. Details included not only simple dimensions but also produced accurate representations of angled, curved and tapered walls.

### **The Results: Increased Accuracy and Boosts to Productivity by 250%**

Before using leading-edge as-built technologies, twice as many people would have had to manually log all measurements using tape measures to produce hand-drawn sketches. Back at the office, multiple teams of AutoCAD drafting technicians would then have had to interpret the data to create digital floor plans which is very time consuming.

### **Summary: Mobile CAD Surveying and Sitemaster Building Delivers Measurable Results**

- 2-3 fold increase in productivity.
- More than 50% reduction in labour costs.
- Reduction of original project timelines
- Increase accuracy of results to 100%.
- Deployed in hours.
- Fully compatible digital floor plan files with existing (AutoCAD) software.

If we say the output is **100% accurate in half the time and at half the cost** we're pretty close. **Productivity in simple terms is increased by 100% - the work is delivered in one day - therefore the profit is increased by 100%**. Mobile technology has actually been proven to increase productivity by up to 1000% when compared to traditional design methods. And that's not mentioning the less tangible increase in service level to the customer. A **Return on Investment** can be seen in some cases on day 1, but we say on average within **14-15 working days**, including the cost of the hardware, software and training.

### **ROI**

Cost of survey team = **½ the cost** - 1 man survey team

Cost of travel = 1 visit and **no** return

Cost of drawing distribution = 1 upload to web portal, many users

## **Sitemaster Building - Advantages**

### **Save time**

Up to 10 times more productive than the traditional pen and paper method.  
Work of two is carried out by one!

### **• No mistakes**

As you measure on-site you draw, in Real Time; therefore all results can be checked immediately.

### **• Get Results**

Professional and complete CAD drawings; integration back to existing office CAD infrastructure

### **• Auditing and calculating on-site**

Intelligent area & volume calculation of rooms, associated dimensioning.

### **Effective Checking**

Insert digital Photos (snagging)  
Mark-up and inspection details

### **• Avoid Typing**

VoiceNOTES: Integrate additional information in your drawing, no need for hand written notes and sketches anymore.

### **• Work wireless**

Collect data wirelessly

### **Be Compatible**

Open and save drawings in DWG/DXF

- **Empowerment of the Field Worker**
- **Defining a standard of working method**
- **Managing your asset**
- **Reducing the cost of the field working**

### ***Typical User for a mobile CAD Solution***

**Construction** - *when working on existing buildings: plans are required before work commences.*

*when building: new plans are required on site to construct.*

*As Builts*

**Utility Companies** - *On installing, inspecting, servicing or maintaining network: drawings and s chematics are required on site*

**Emergency Services** - *Police Crime Scenes, plans for fire escape, Security layouts for any building vulnerable to terrorism*

**Government** - *site plans for disability access, housing, hospitals, security and asset management*

**Real Estate** - *property plans, surveyors reports, valuation reports, property and facility management*