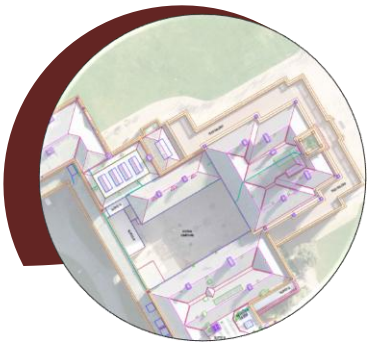
Surveying and spatial solutions for Architects

Landair
Surveys

Across Victoria and New South Wales, Landair Surveys is enabling architects **to plan and design with confidence** – by accurately capturing and sharing intricate building details and site features. **Learn more at landair.com.au**

Why choose **Landair Surveys**

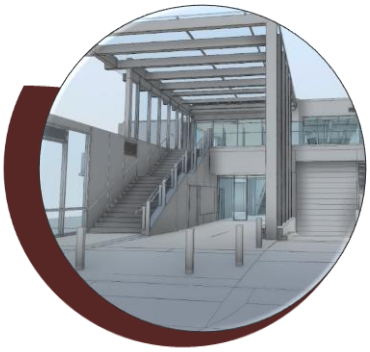
We know how important it is for architects and consultants to understand every detail of their projects – down to the millimetre. **That's why:**



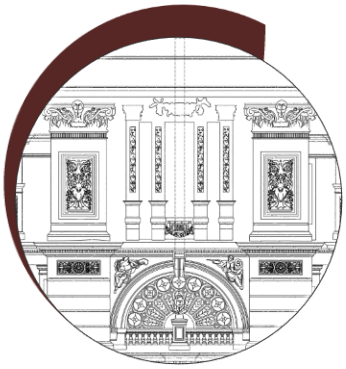
we make accuracy our priority, to deliver data that architects can trust

we capture all the details you need from intricate coursework to overall site context

we have decades of experience surveying for architects



we know your processes and are with you each step of the project



We take safe work seriously and have the right insurance levels – PL & PI

We always work professionally and commit to ongoing communication

What some of our **Long-term Clients** say about us…

Data quality and attention to detail are what Landair do best. We have a close working relationship with the team and they provide input and intellect you won't get elsewhere."
Harry Jess
Director at Conservation Studio

Landair has been an incredible partner for our business. We needed a customer solution for a project with a tight timeline, and they delivered exactly what we needed."
Armin Ghamami
Director at 4Site Design Group

Landair Surveys

3D Reality Capture
Mobile Laser Scanning

Never experience a data shortfall again. At Landair we use the wearable NavVis VLX3 for our mobile scanning tasks.

How it works…

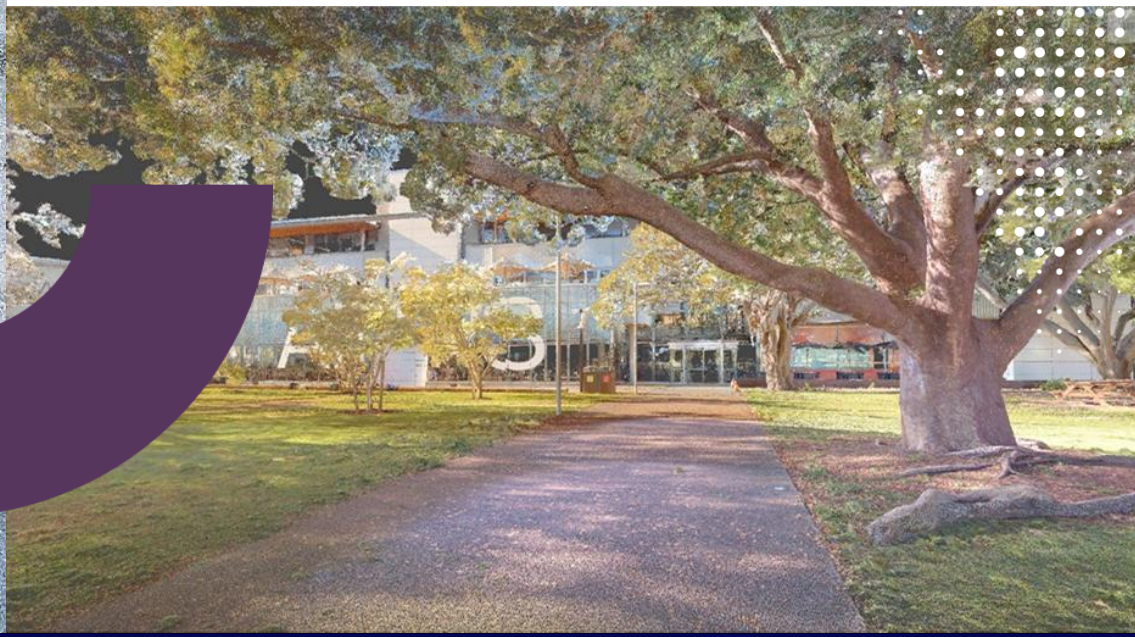
Essentially, everywhere we walk we measure. A site walkthrough becomes a full site pickup leading to faster fieldwork, lower costs, and no compromise on the data quality our architect clients need. Mobile scanning hits that Time/Cost/Quality sweet spot. It flips the traditional scanning process. Instead of fixed setups, the VLX3 uses the stable geometry around it to track its position building up a 3D picture as it moves.

The Result – a clean, colour-balanced pointcloud accurately aligned to your project's coordinate system.

You get a virtual snapshot in time, a dense project pointcloud with 5mm point spacing. Choose between structured and unstructured pointclouds – with structured pointclouds you can take advantage of the 100s of embedded 360° images for virtual walkthroughs; with unstructured pointclouds you benefit from lower file sizes suitable for architectural software import.

Where it works best…

- **When time on site is critical: think hospitals, office floors or universities**
- **Where project specs allow ±10mm indoor / ±15mm outdoor accuracy**
- **Where the built environment provides strong geometry for positioning**
- **Where broad site context matters more than sub-5mm details**
- **When large areas make traditional scanning inefficient**



Landair Surveys

3D Reality Capture
Static Laser Scanning

When the finer details are paramount, a traditional laser scanner is the best tool in the Reality Capture toolbox

Why traditional?

Sometimes architectural elements on a building façade are more important than the overall site context. When the intricate details matter, traditional laser scanning is the method of choice. Static, or stationary, laser scanners are set up on a tripod at each critical location and moved systematically throughout the survey zone. The surveyor makes sure there is enough overlapping calibration targets (like scanning spheres) between scans to ensure highly accurate scan-to-scan registration and tight alignment to the site coordinate system.

What you get? A highly accurate, structured pointcloud with point spacings between 1 & 5mm.
How accurate? Think ± 3mm for individual scans and normal overall pointcloud accuracy of ±5mm.

When traditional 3D scanning makes sense...

- **When the finer details matter**
- **When data accuracy is non-negotiable**
- **When building interiors or site layouts are complex**
- **When the scanner needs to be raised or lowered to measure critical locations**

Landair Surveys

Drone Flyovers & Roof Inspections

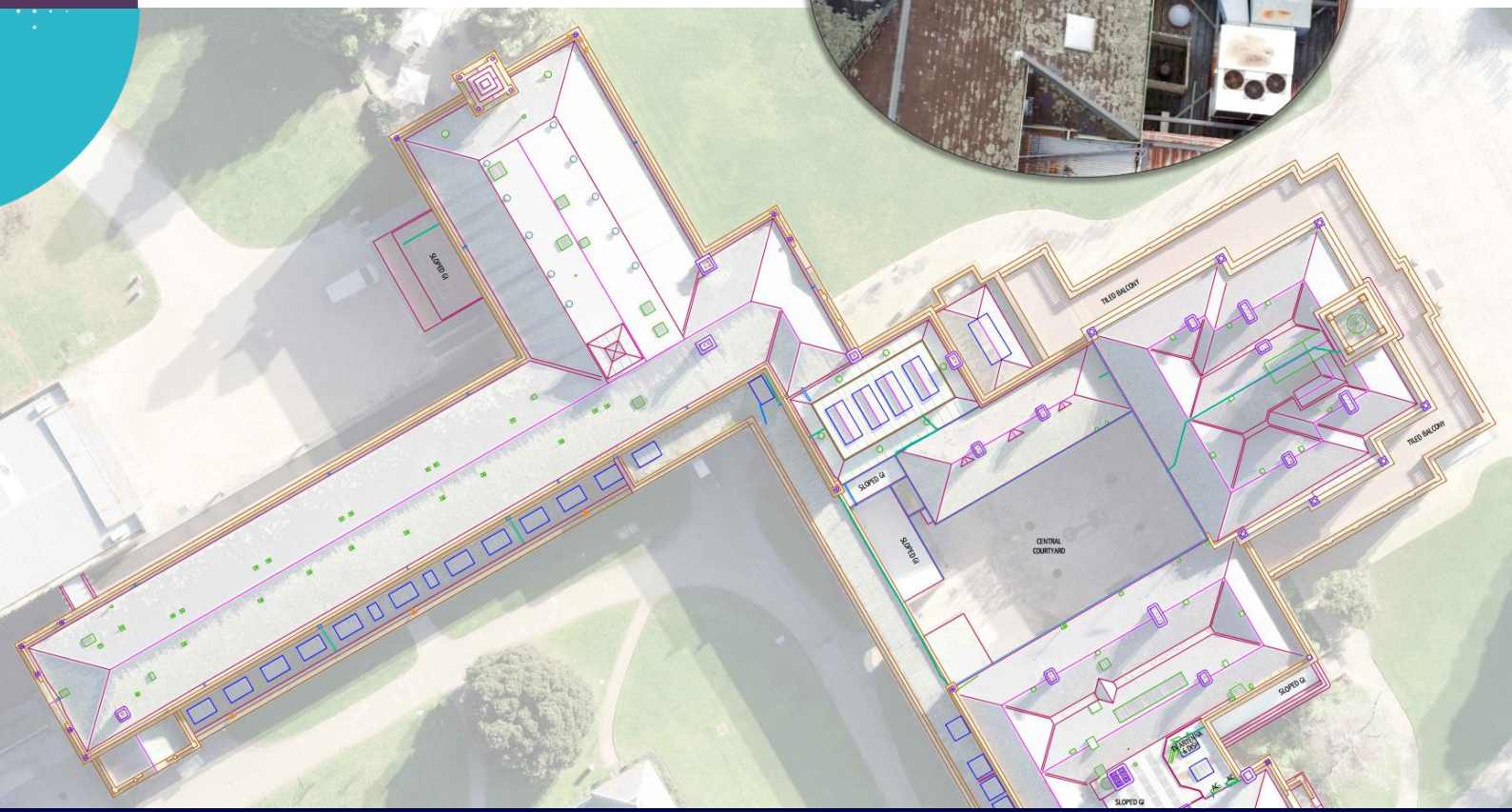
Whether it's restricted roof access or the need for up-to-date aerial imagery, **Drone Flyovers** are one way architects gain that additional site context

With over a decade of RPA (drone) flying under our belts we stand ready to take to the skies above your project site for a bird's eye view

All our drone pilots are CASA-licensed and fly under our RPA Operator's Certificate (ReOC). We maintain a strong safety culture and proactively engage with all the stakeholders on our projects. Our fleet of mapping and inspection drones are all CASA-registered and we even have additional drone-specific Public Liability Insurance

How we help...

- **Orthoimages for overall site context and plan underlay**
- **Close-up roof imagery to assist with condition assessment reports**
- **Turn drone images into pointclouds for site terrain or rooftop infill data**



Existing Conditions Surveys

If your project involves site assessments, design or development then **Existing Conditions Surveys** are one of the first – and most important – steps to complete. We understand every site is different, unique in both challenges and opportunities. At Landair, we want you to have the right foundational data informing your decisions. We help by accurately documenting existing site conditions, including:

Feature & level surveys

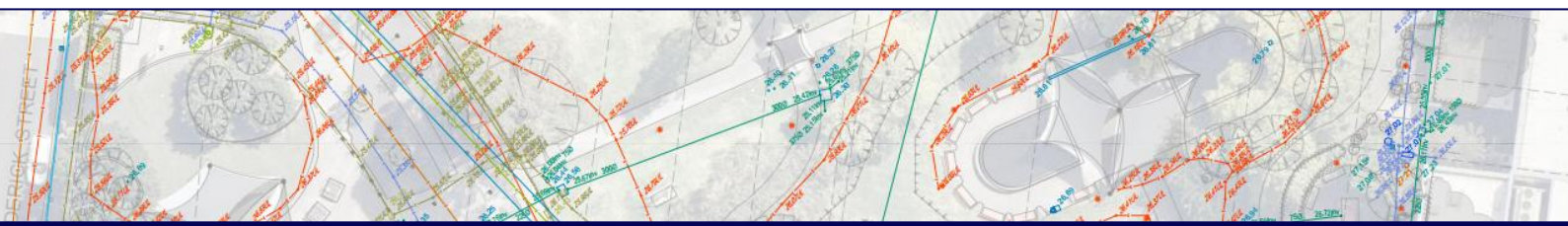
We measure site infrastructure and topography to map out your project extents, providing 2D site drawings and 3D terrain contours so there are no surprises down the track

Title surveys

We search and review the title data and complete the required survey measurements to calculate the position of your site's title boundary noting easement locations and checks of existing occupation

Underground services tracing

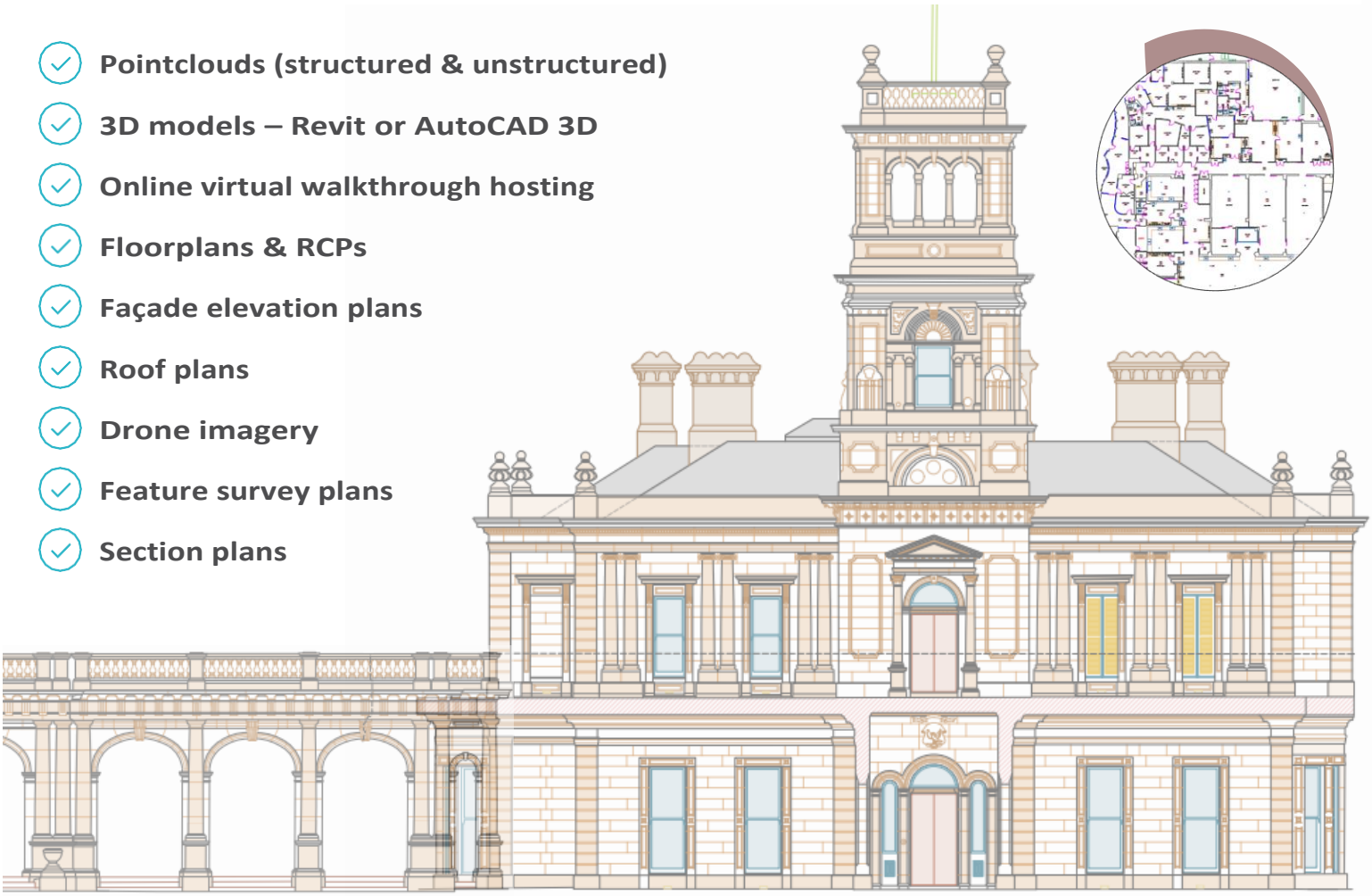
Using a combination of BYDA records and electro-magnetic tracing equipment, we identify and record underground services such as electricity, water, gas and sewerage



Survey Deliverables

With decades of experience in surveying for architects, we pride ourselves on building lasting relationships with our clients, not just completing jobs. Whether it's a simple existing conditions pickup or a precinct-wide 3D scanning survey, our team gives you the advice and precise data you need to move forward confidently. Our usual data sets for architects include:

- Pointclouds (structured & unstructured)
- 3D models – Revit or AutoCAD 3D
- Online virtual walkthrough hosting
- Floorplans & RCPs
- Façade elevation plans
- Roof plans
- Drone imagery
- Feature survey plans
- Section plans



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1300 130 158 | info@landair.com.au

landair.com.au

Melbourne (head office)
1/87-91 Heatherdale Road
Ringwood VIC 3134

Sydney
Suite 18, 12 Tryon Road
Lindfield NSW 2070