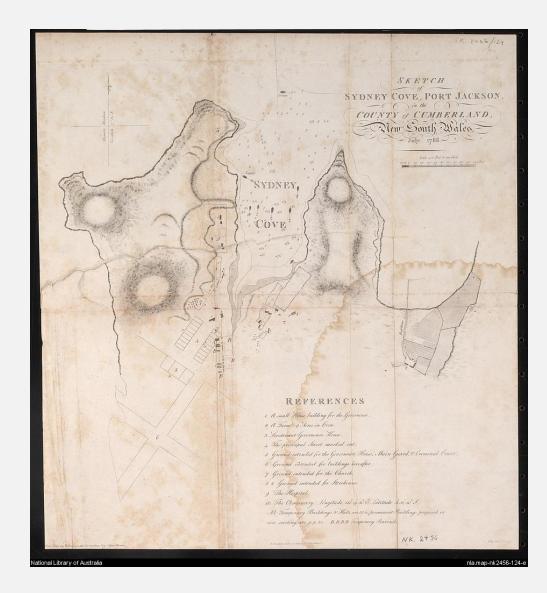
Cadastral Spatial Programs

2021 Program Update

Erin Telford Supervisor Cadastral Development Programs

The DCDB, where did it all begin?



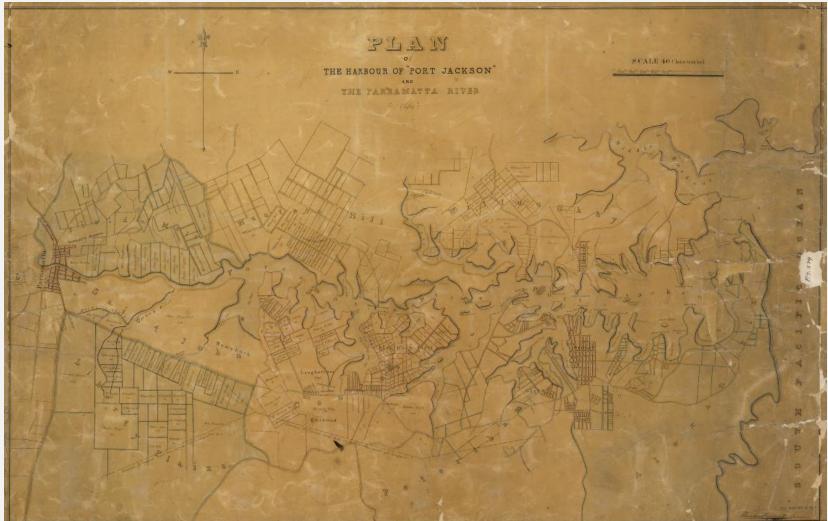
1825

Royal instructions to Governor Brisbane for a general survey and valuation of land in the Colony





Early Mapping in NSW





Counties: 141 Parishes: 7459 Parish Maps were used between 1848 – 2002 (154 Years)

Darling Harbour



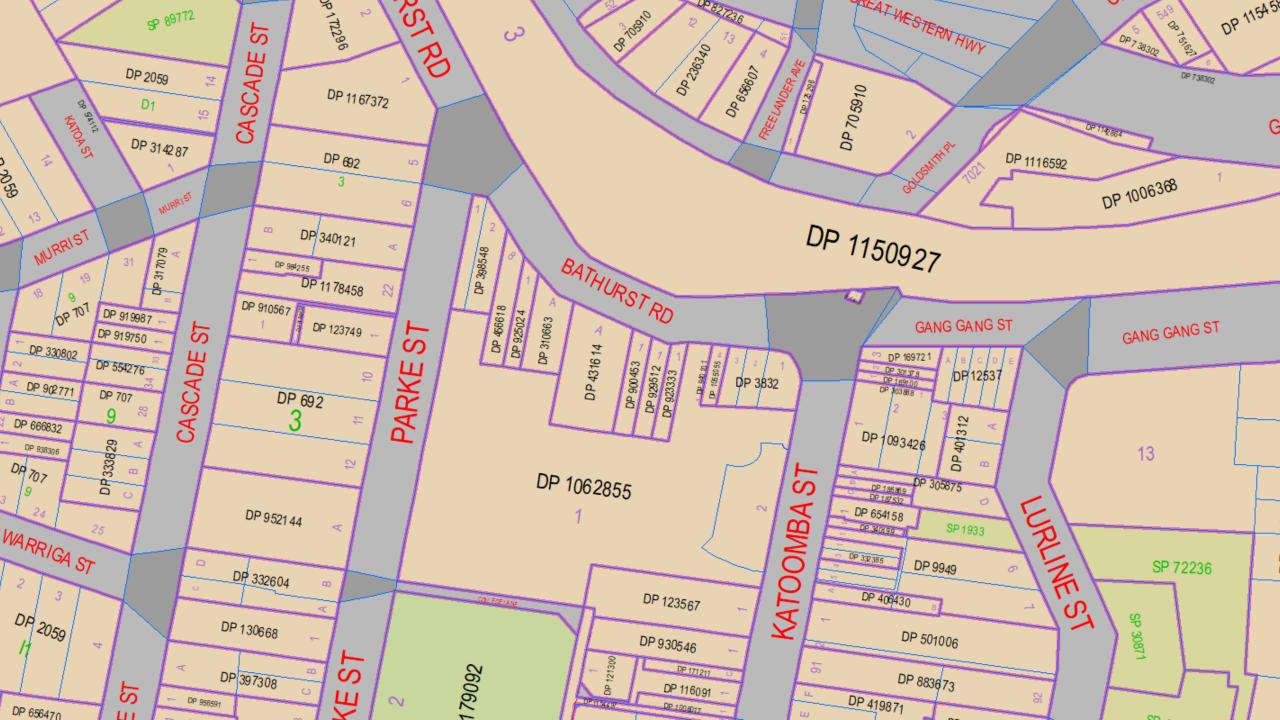


The Shift and Migration to a Digital Mapping System

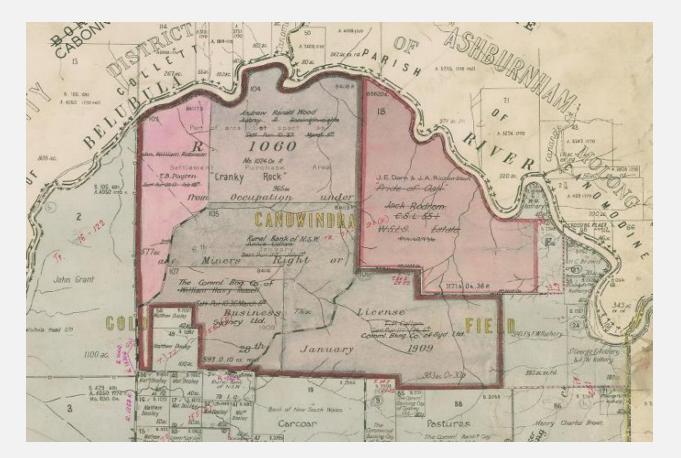
- Original Cadastral data was in hard copy maps produced from Parish maps and plans
- 1980-1987 GRAPHIC DATABASE. Focus was on the capture of the digital data in such a form that it could be plotted on a flatbed plotter, prior to completion using manual techniques. No intelligence
- 1987-2004 the DCDB was captured using Genamap GIS and provided a spatial index into the title register, allowed a supply of digital data to clients and an ability to query and analyse the data.
- 2004-PRESENT As part of the Spatial Maintenance System project, ESRI ARC tooling was introduced through extensive inhouse development and a new sophisticated cadastral model







Cadastral Spatial Programs



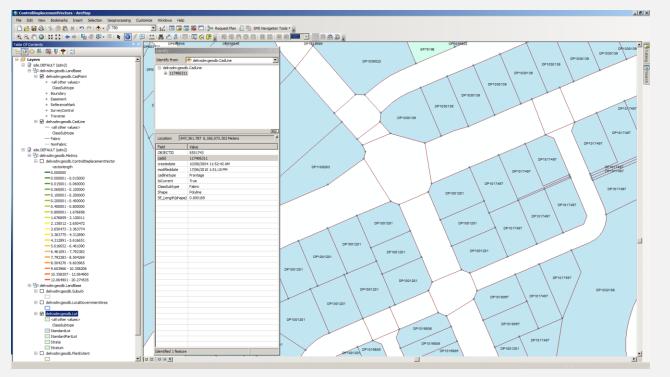
Cadastral Maintenance

Cadastral Development

Cadastral Transformation



DCDB Maintenance

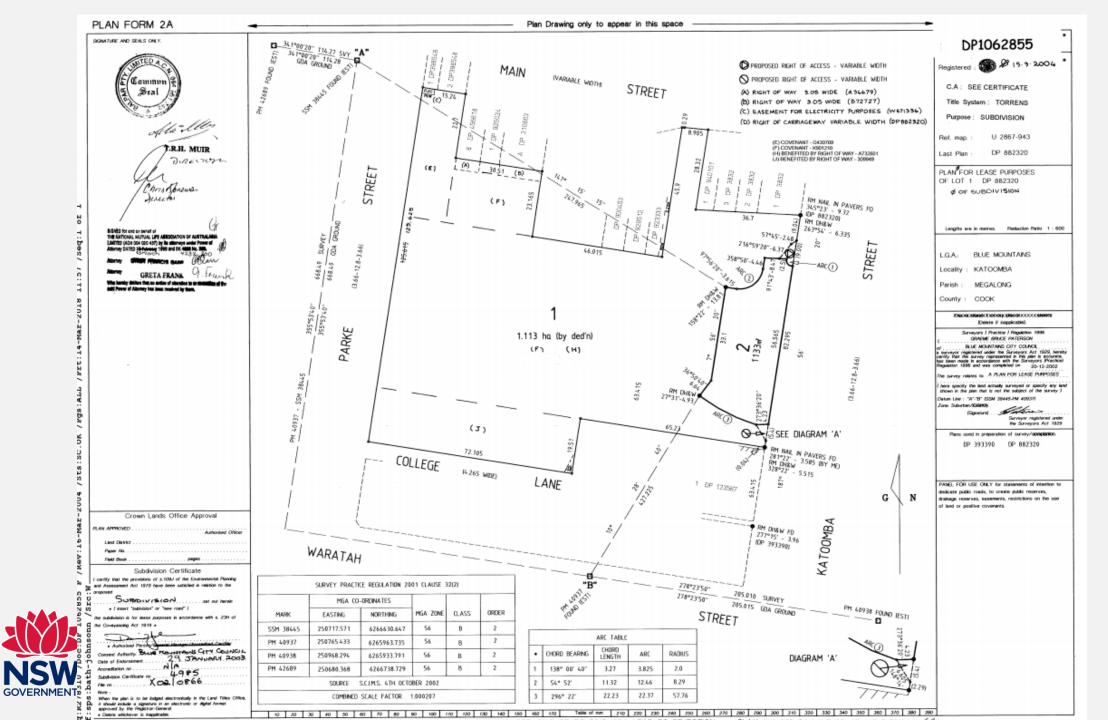


- 11,000 new plans added to the DCDB
- 39,122 new lots
- 2.94 million new features
- Other BAU

•

• Amendment requests, Gazettal capture, Amended plan changes, transformational activity





Cadastral Maintenance - 24TAT





24 hours of registration

• 4,400 new DP registrations captured in LandXML

• (12,239 PTD)

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DCDB Upgrade

- 1,279,690 Parcels have been upgraded in NSW. Improved from inaccuracies of 0.5m-250m down to 0.2m (urban), 0.5m (regional) and 2.0m (remote) accuracy or better.
- Over 25% of Parcels in NSW have been upgraded.



AFTER UPGRADE





Why are parts of the Cadastre inaccurate?

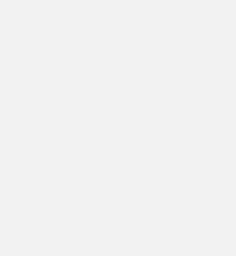


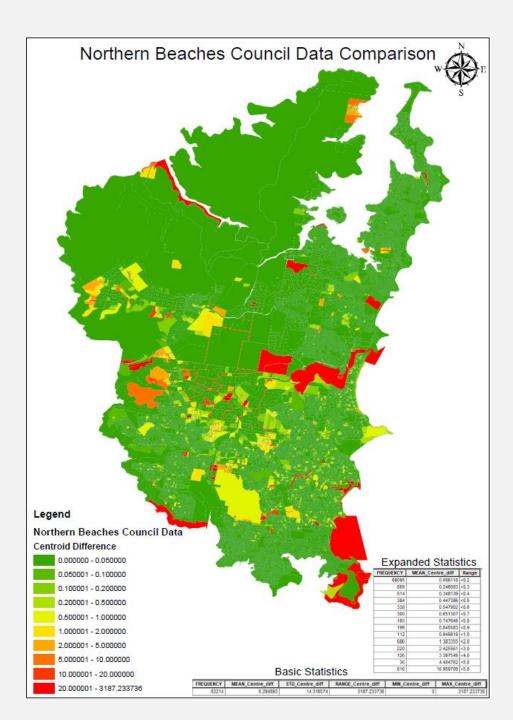
Manual digitisation and scanning techniques were used to create the DCDB. All scale and topological errors that existed on all the original hand drawn maps were transferred to the digital version during the digitisation process that now in the modern digital format can be seen as inaccurate.



Council Collaboration

- SS works closely with Councils who maintain their own cadastral datasets
- Conflation of the DCDB to Councils data is used where their data is in a better spatial position.
- Centroid Analysis and Cadastre of Known accuracy maps.





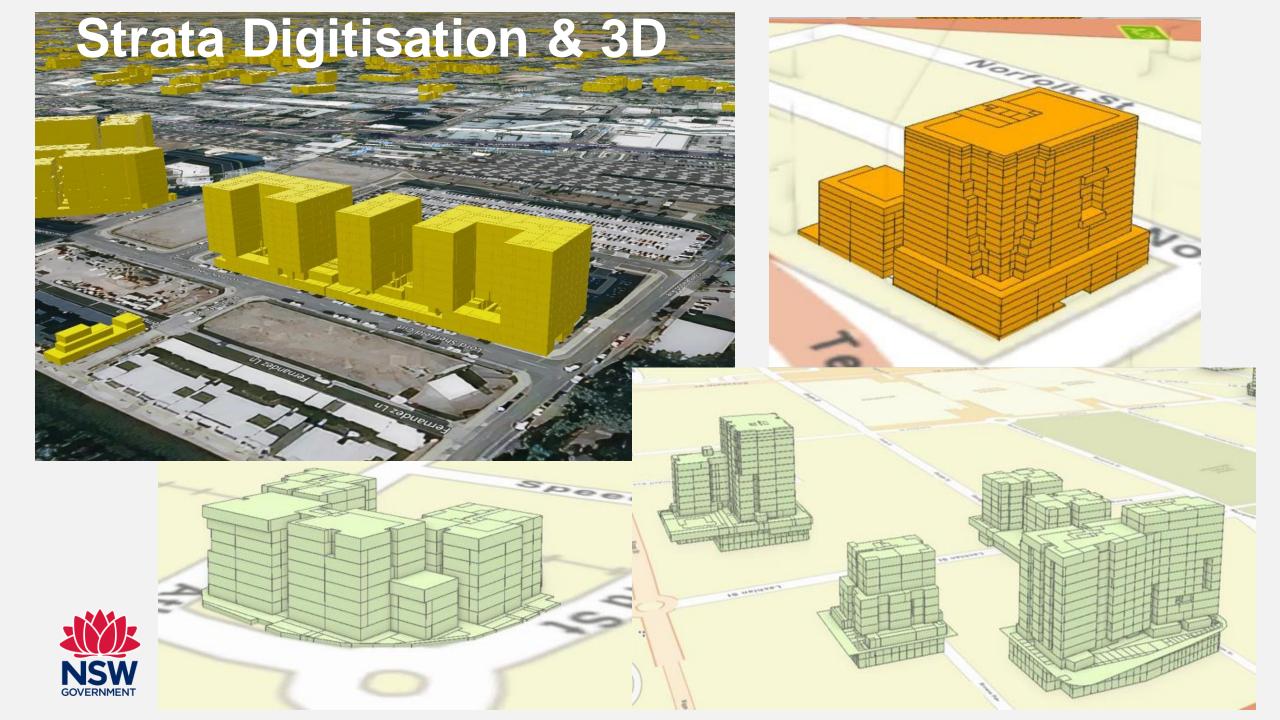
Survey Plan Digitisation - LANDXML

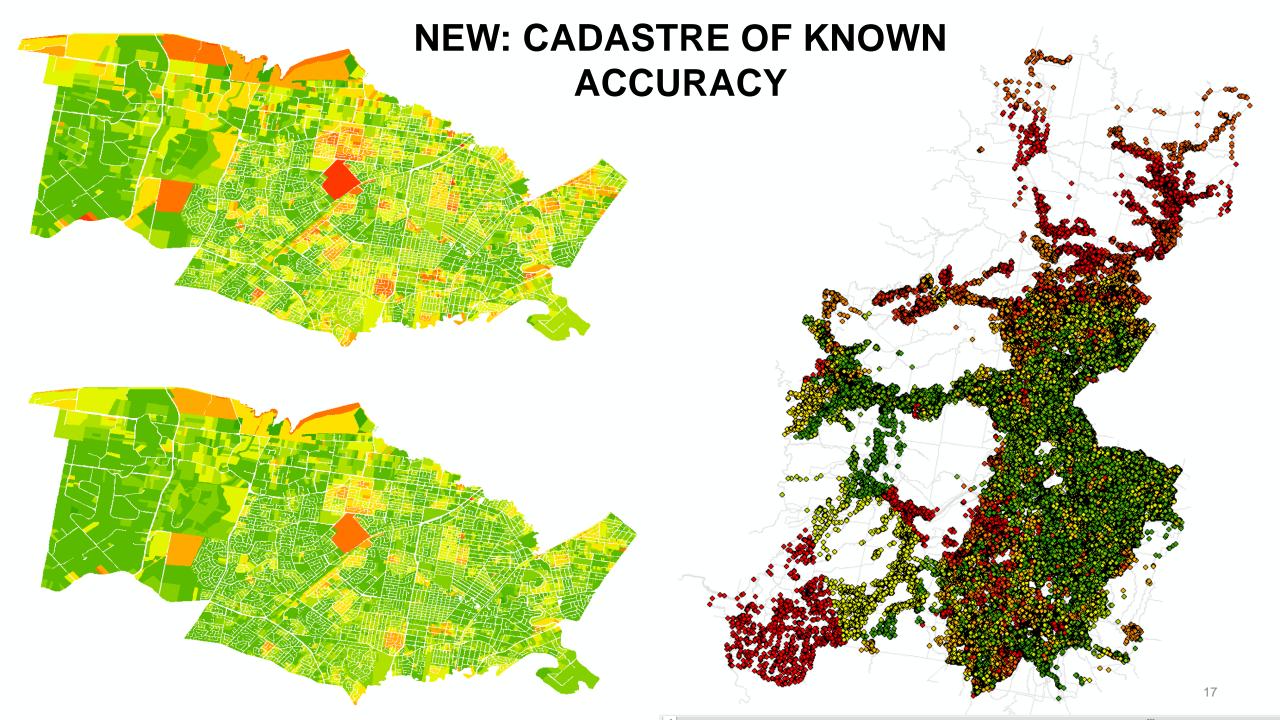
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Survey Plan Digitisation – Strata GeoPackage

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Cadastre NSW

Cadastre NSW Program Update

System Enhancements and Integration

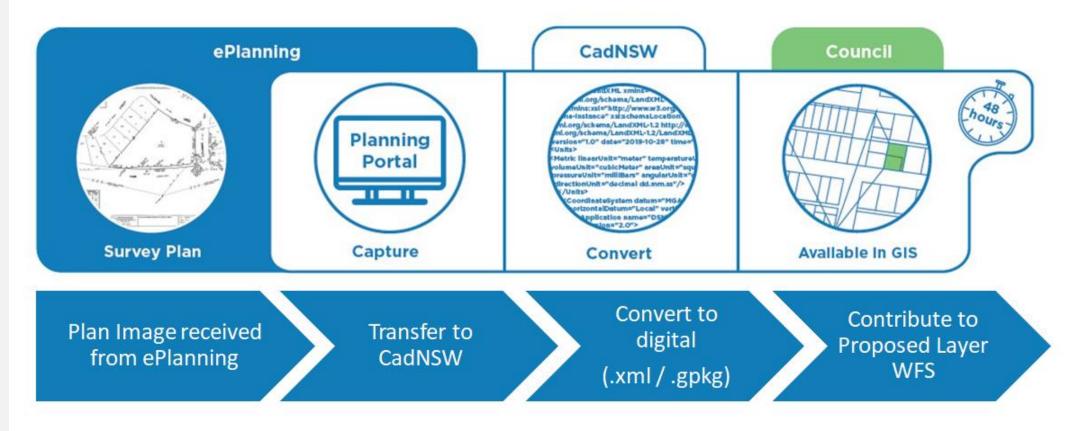
- NSW Planning Portal integration
- Proposed Strata Plan captures
- Development Application plan captures
- Proposed Addressing
- Spatial Collaboration Portal
- 3D Proposed Buildings
- NSW Digital Twin





ePlanning Alignment

New Method: Automated Plan Load





What this means for Council



1 January 2021
•48 Local Councils *mandated* into service
•80 Local Councils *registered* into service

 1 July 2021
 <u>80 Local Councils mandated</u> (outstanding regional and rural LGAs)
 All 128 NSW Local Councils in ePlanning



Sydney Metro & Mandated Councils

•No council plans *loads* to CadNSW web portal
•Plans (.xml, .gpkg) available from portal for download
•All SubCert plans accessed from NSW Planning Portal
•Capture of DA plans of subdivisions expected FY2020/21

Proposed Layer accessed via WFS

Regional and Rural Councils

•Option to continue to load via CadNSW web portal

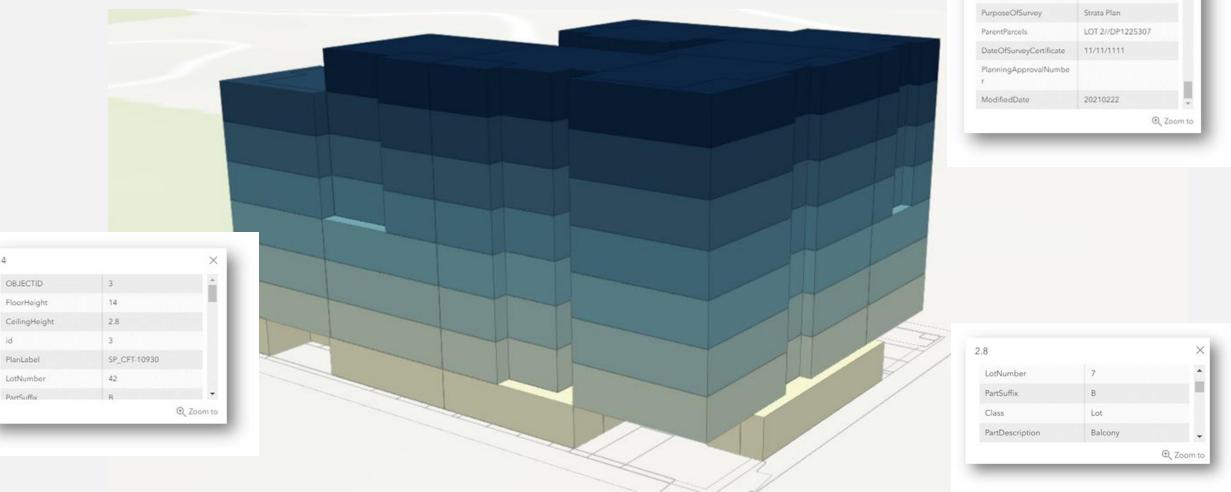
•SubCert plans will be loaded on Council's behalf if lodged through NSW Planning Portal

•Capture of DA plans of subdivisions expected FY2020/21

• Proposed Layer accessed via WFS

•All plans of subdivision to be lodged through NSW Planning Portal from 1 July 2021

Strata Plans





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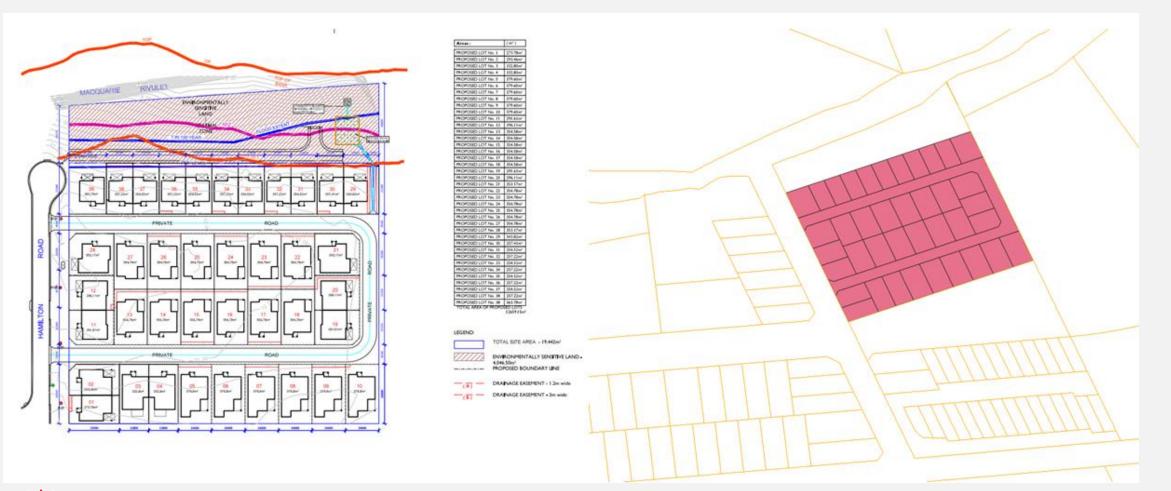
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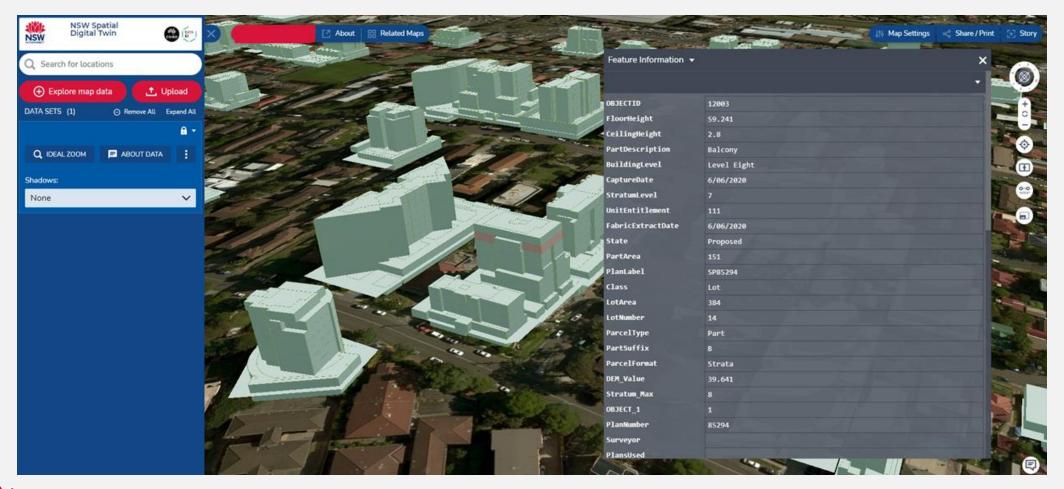
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Development Applications





Cadastre NSW Delivery





Erin Telford Supervisor, Cadastral Development

Spatial Services | Department of Customer Service p 02 6332 8221 | m 0419 487 037 e erin.telford@customerservice.nsw.gov.au spatialservices.finance.nsw.gov.au | www.customerservice.nsw.gov.au 346 Panorama Avenue, Bathurst NSW 2795

