Appendix M – Comprehensive Water Sensitive Cities Strategy Information

This section contains more comprehensive information on the overall strategy at a catchment and subcatchment level.

The **first map** shows the RORB subarea (sub-catchment) spill volumes for the 5 yr and 20 yr rainfall events.

The **second map** shows the potential street storage volumes (excluding public open space) for the subcatchments.

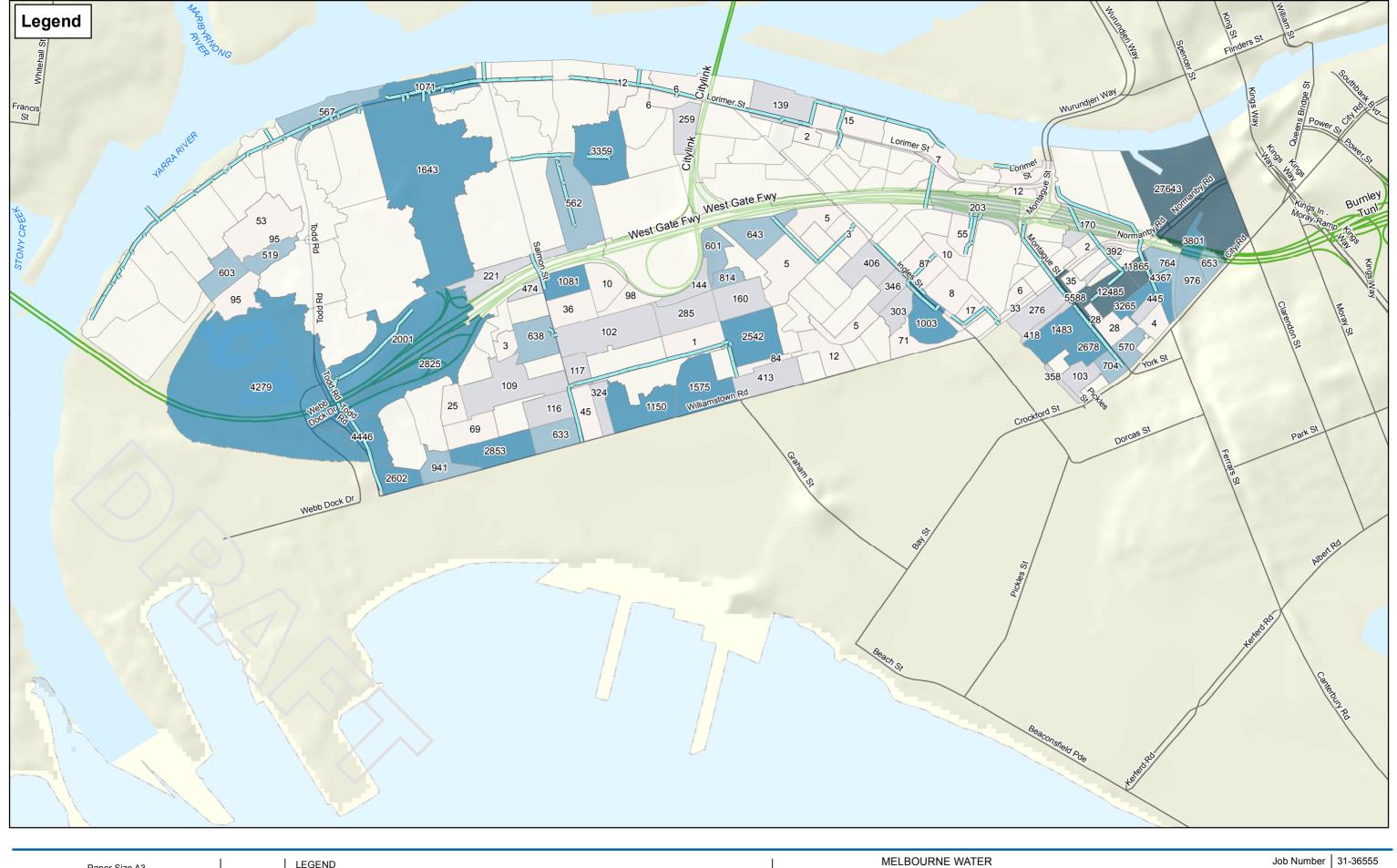
The **third map** shows the location of potential open space storages and indicates which are close to groundwater.

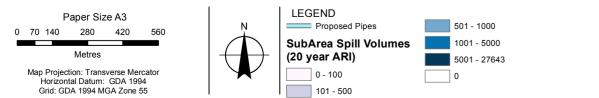
The **fourth and fifth maps** are flood depth maps, using the potential street storage volumes (excluding public open space). This demonstrates where storage in the streets, without pipe upgrades or storage in the open spaces, is or is not effective.

The **sixth and seventh maps** are flood depth maps, using the assumed required storage volumes to capture the spills (regardless of whether in streets or open spaces). This shows where storages are, or are not, effective. These results demonstrates that storages are effective everywhere except in Montague, which is relatively low lying and is also influenced by the adjacent Hannah St Main Drain catchment in South Melbourne.

The **final set of maps** show a comprehensive view of the proposed drainage infrastructure at Fishermans Bend, catchment by catchment. These show the infrastructure (levee, pump stations, new pipes, upgraded/duplicated pipes), the areas with potential for distributed storage (streets with the linear storage rate represented by colour banding, and location of new/existing open space), with areas below an elevation of 1.4m AHD also shown.

The sub-catchment areas are also represented, with two numbers shown: (1) the modelled rainwater tank flood storage volume, and (2) the storage volume required to capture the 20 year spill volume. The sub-catchment unique IDs are also shown, and an accompanying MS Excel Table will be provided with all the relevant volumes (above what is shown on the maps).





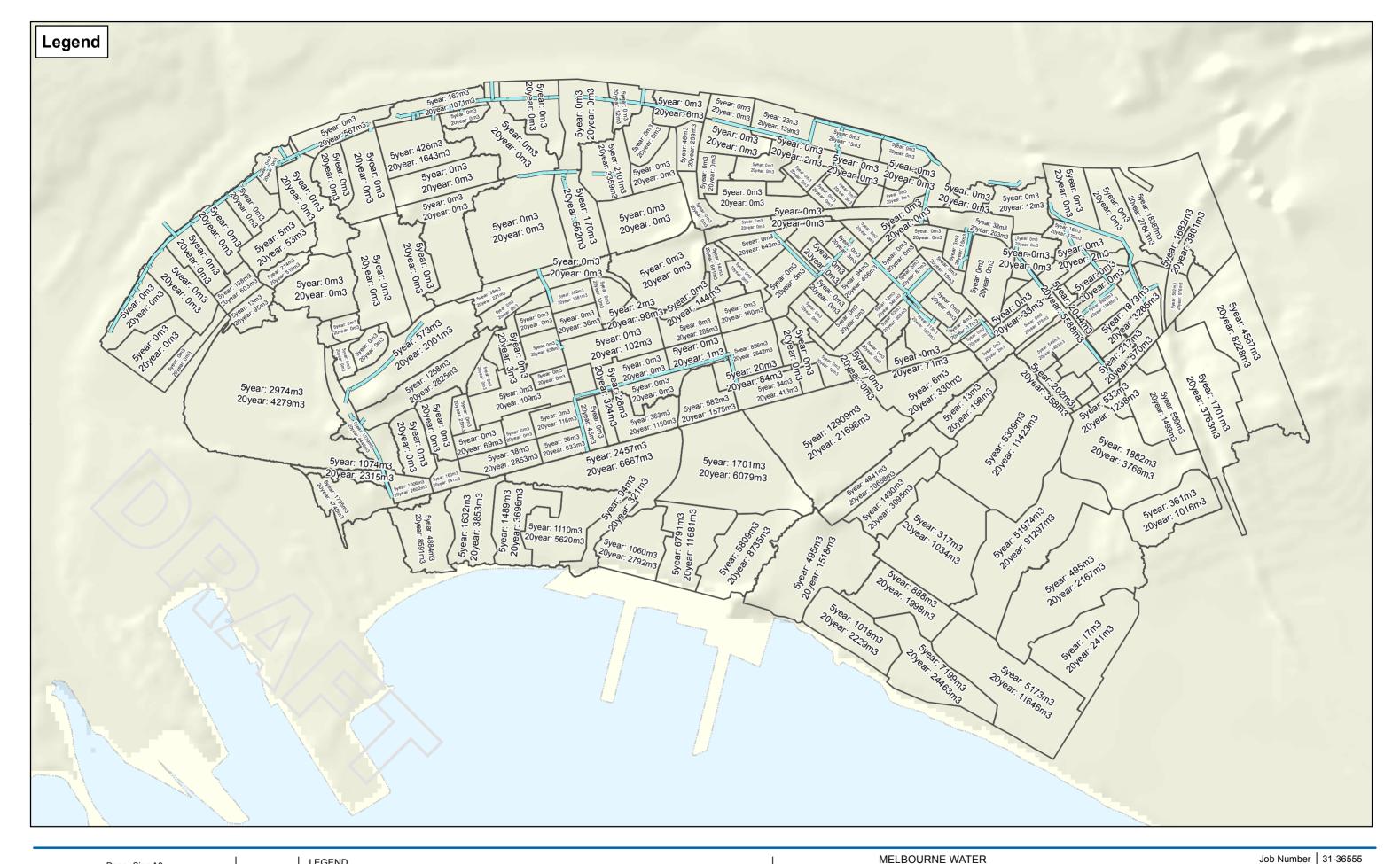
GHD

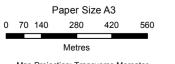
FISHERMANS BEND WATER SENSITIVE DRAINAGE & FLOOD STRATEGY

Job Number Revision Date

C 27/11/2018

Required storage volumes to achieve 20-year ARI level of service







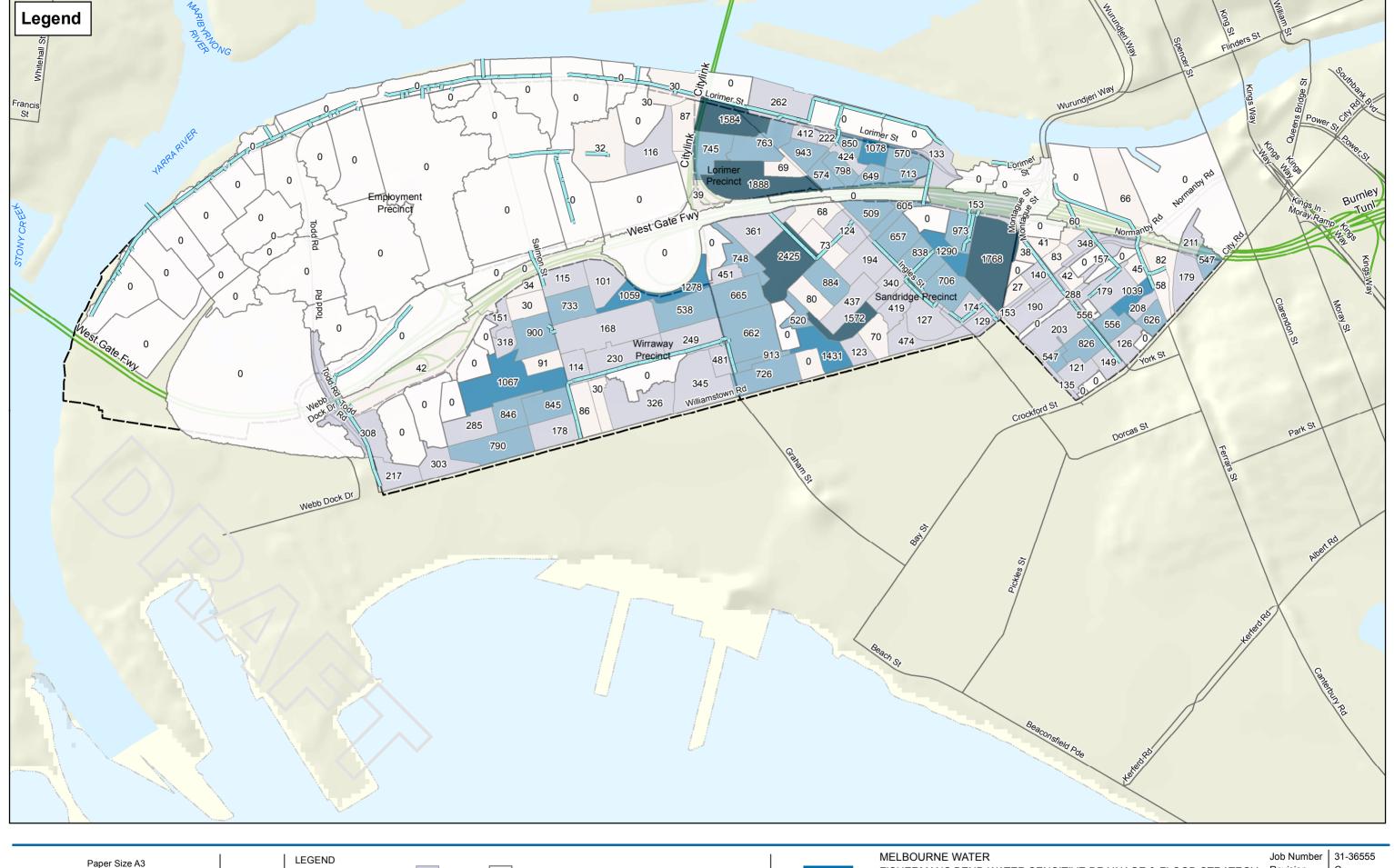


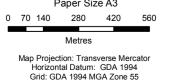
MELBOURNE WATER
FISHERMANS BEND WATER SENSITIVE DRAINAGE & FLOOD STRATEGY

Job Number Revision Date

B 23/11/2018

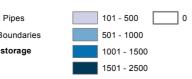
Sub Area Spill Volumes









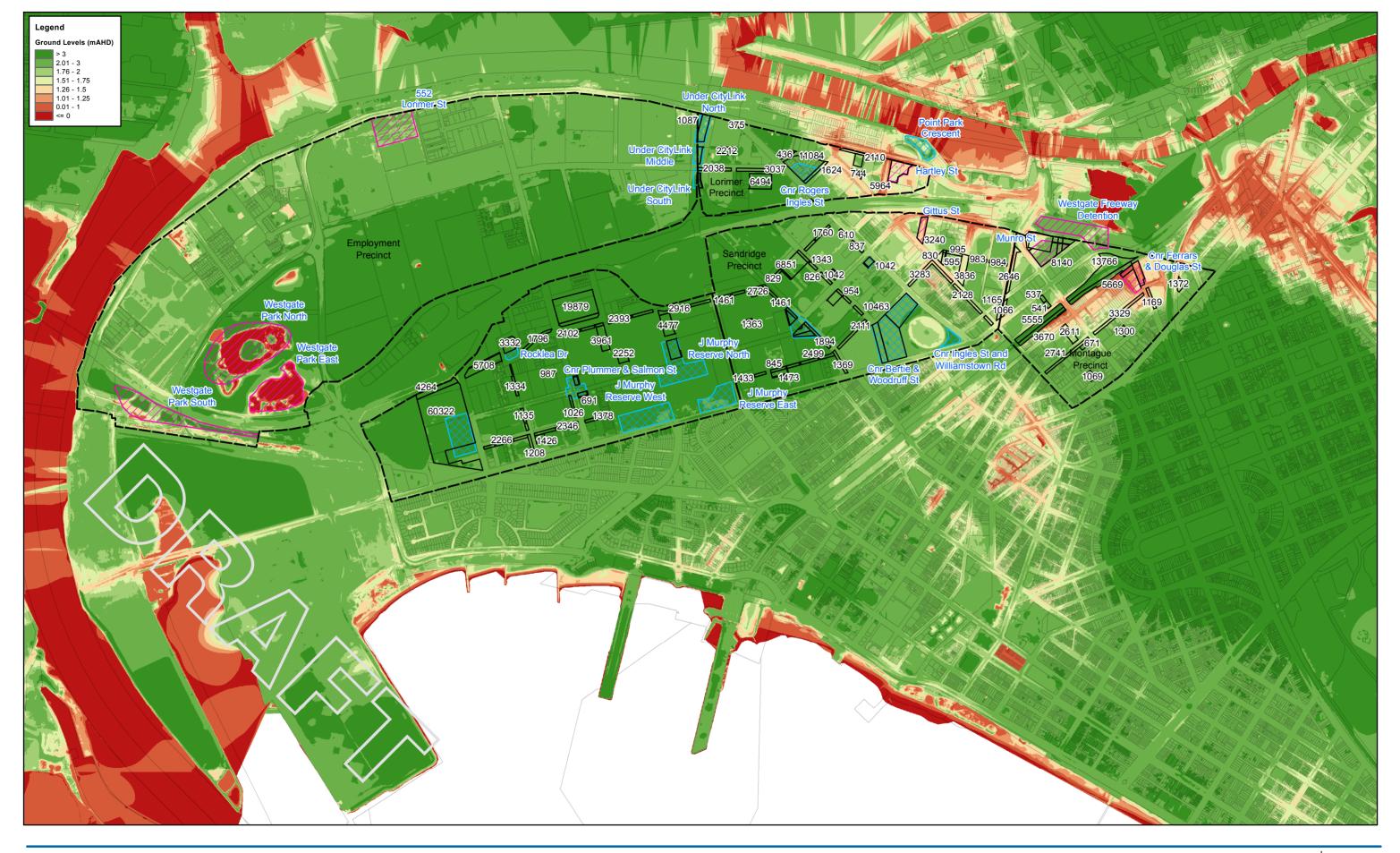


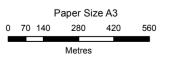


FISHERMANS BEND WATER SENSITIVE DRAINAGE & FLOOD STRATEGY Revision

27/11/2018

Available street storage volumes





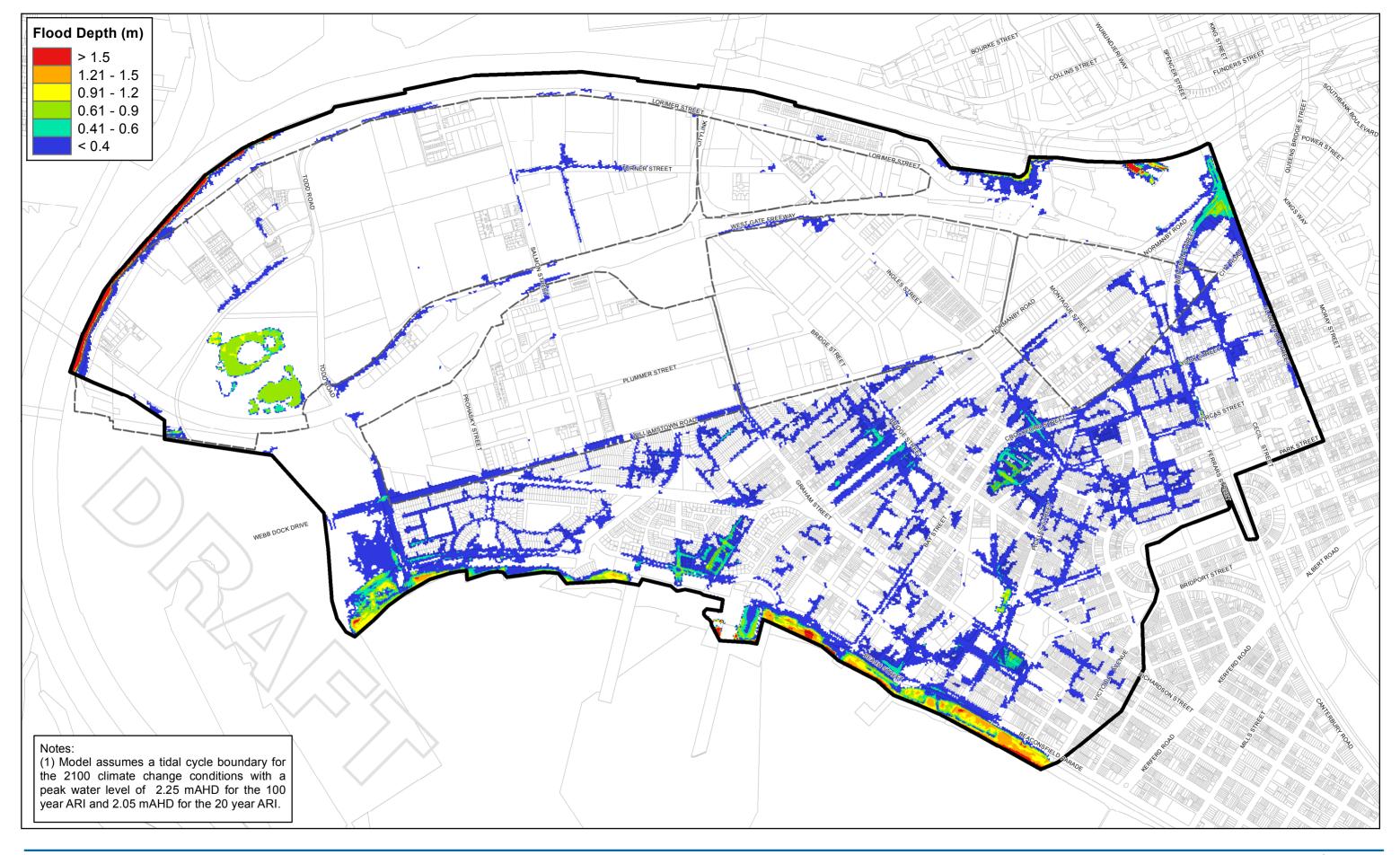


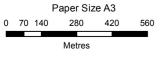
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Job Number | 31-36555

06/12/2018

Distributed Storages & LiDAR







Precinct Boundaries

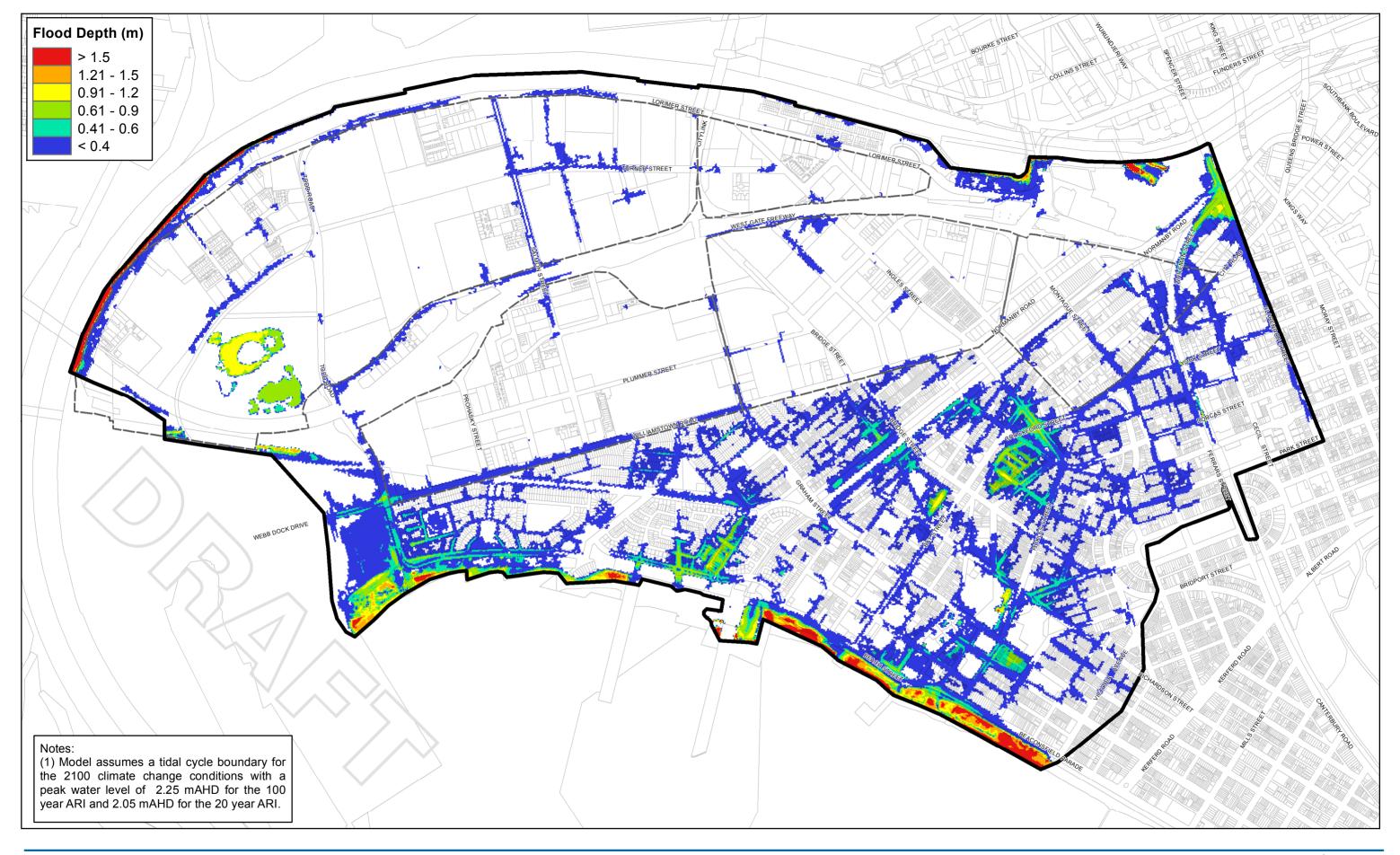


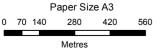
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Job Number | 31-36555

18/12/2018

Realistic street storages 20 year ARI







Precinct Boundaries

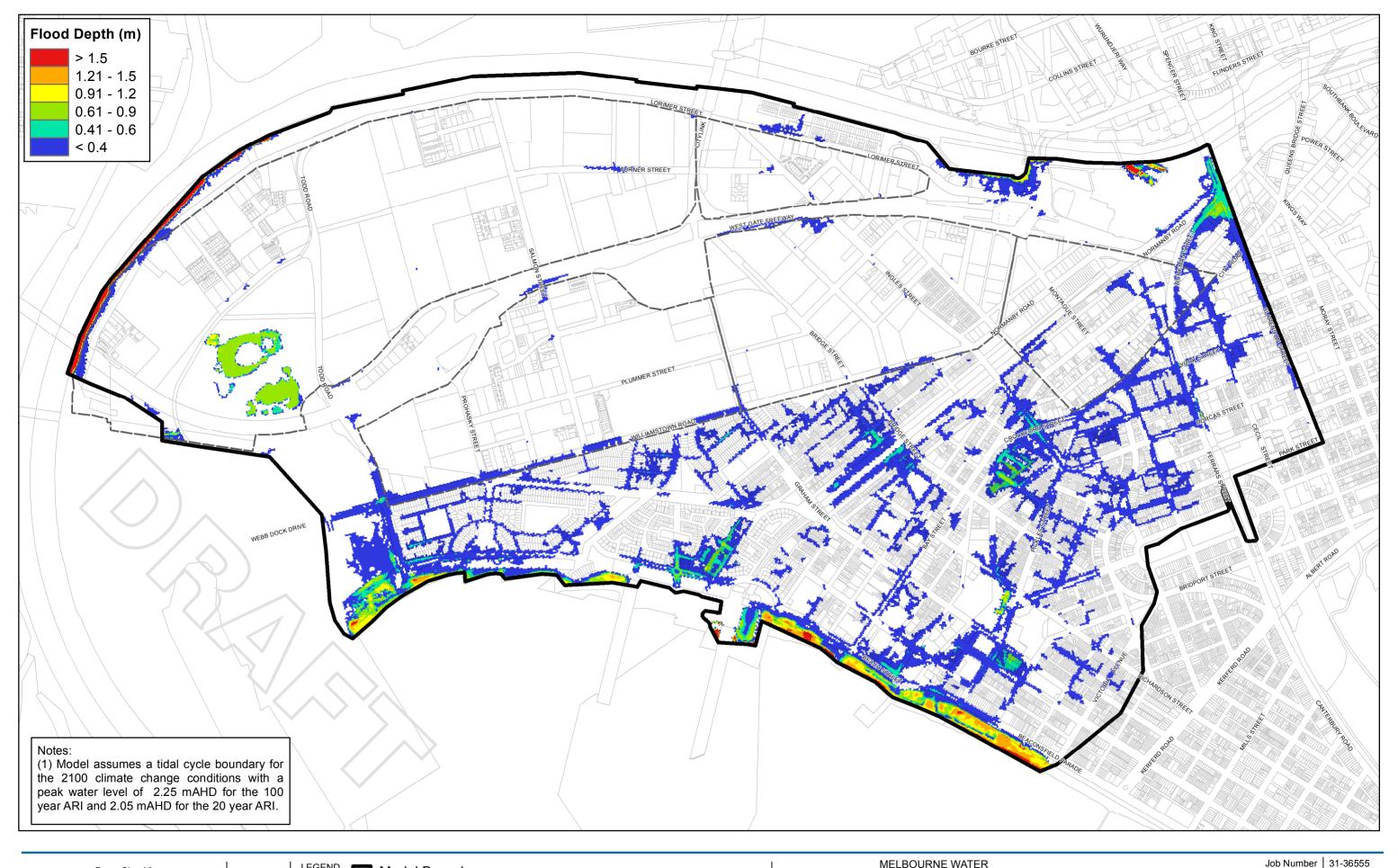


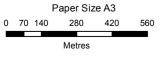
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18/12/2018

Realistic street storages 100 year ARI







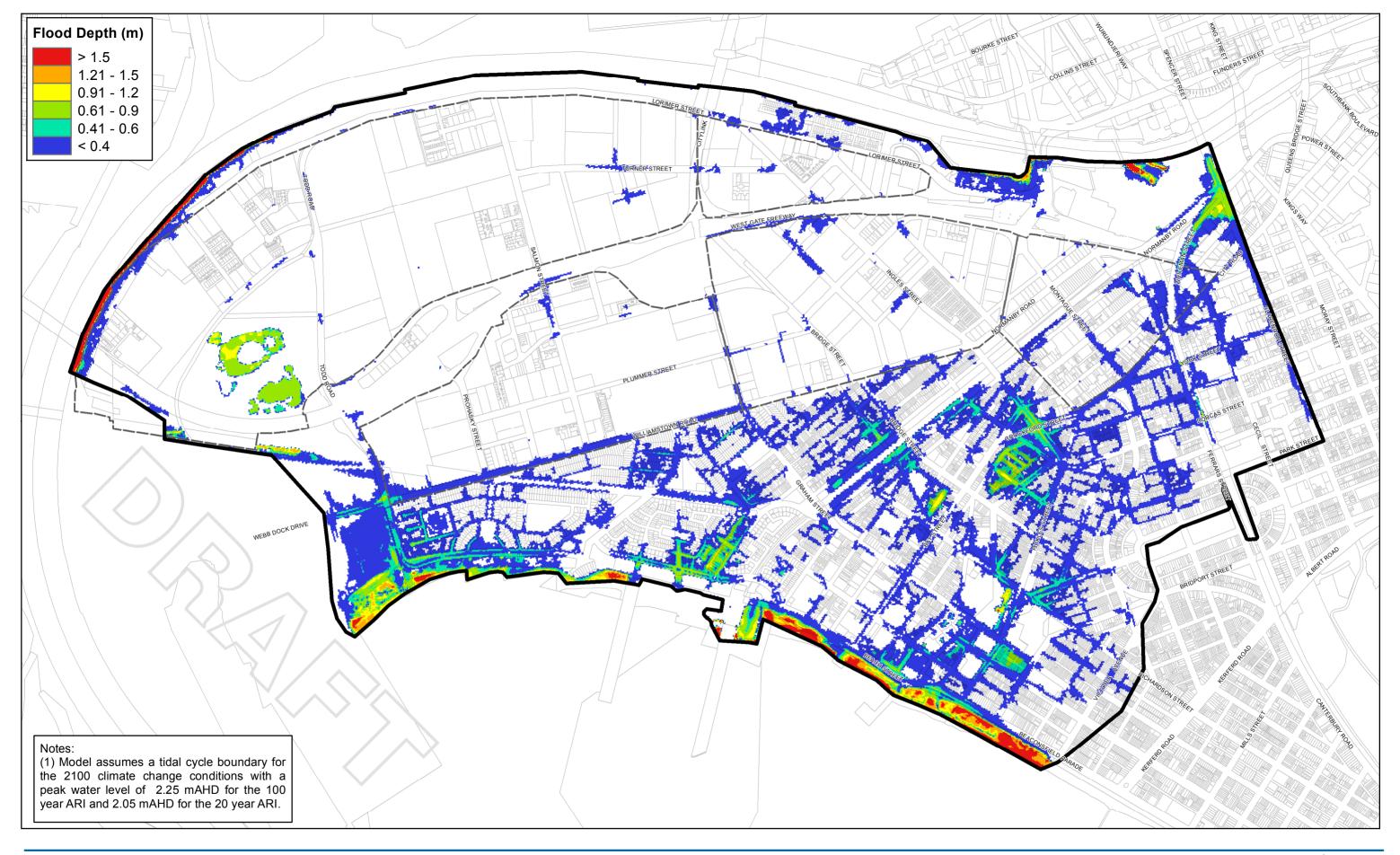
Precinct Boundaries

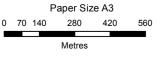


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18/12/2018

Maximised street storages







Precinct Boundaries



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Job Number | 31-36555

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Maximised street storages 100 year ARI

