

# **DEVELOPMENT CONTROL PLAN**

PART E: SPECIFIC AREAS



Chapter 20: Regrowth Kurri Kurri

# **Amendment History**

Version No.	Nature of Amendment	Date in force
1	Draft	
2	DCP Chapter adopted at the Ordinary Council Meeting 20 September 2023.	17/10/2023
3	Additional Flooding Controls	9/10/2024

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#### AREA-BASED PROVISIONS

The Cessnock Development Control Plan is comprised of 4 parts. Development applications must address <u>all relevant</u> sections of Part 2, Part 3 and Part 4 and supporting guidelines, such as Council's Engineering Guidelines for Design and Construction.

Area-based provisions apply to discrete areas and may include provisions that are different from those in Parts 2 and 3 of the CDCP. Where there is a difference between any development provision/s in Parts 2 or 3 and Part 4, the provision/s in Part 4 prevail for that area.

### REGROWTH KURRI KURRI

#### Preamble

The closure of the Kurri Kurri Hydro Aluminum Smelter presented opportunities to redevelop the site for employment, industrial, residential and conservation purposes. The site extends into the Maitland Local Government Area and includes extensive areas of environmental lands.

The area is now known as Regrowth Kurri Kurri.

These area-based provisions aim to guide the design, conservation and management of residential, industrial, commercial and infrastructure development to achieve the masterplan envisaged for the area.

### **Application**

This chapter of the DCP applies to the land known as Regrowth Kurri Kurri as outlined in Figure 1.

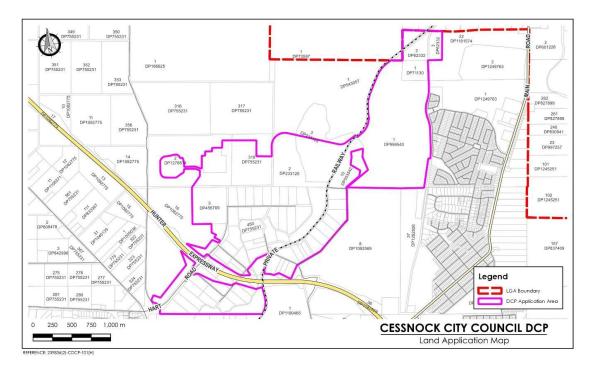


Figure 1 - Land application map.

### **DEVELOPMENT PROVISIONS**

### **Staging**

Objective/s	Development Control/s
Staging of development occurs in a timely and	The development is staged generally in
efficient way, making provision for necessary	accordance with Figure 2.
infrastructure and sequencing.	

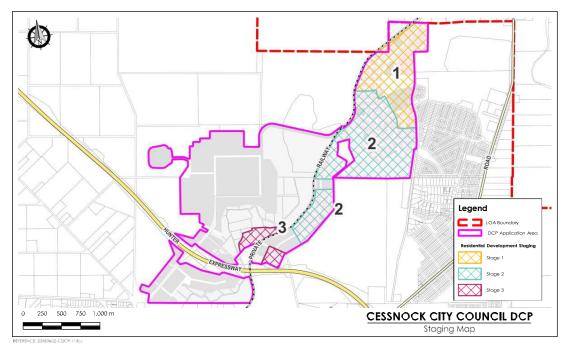


Figure 2 Strategic Plan

### **Environment**

### Watercourses and riparian corridors

Swamp Creek and an unnamed 2<sup>nd</sup> order stream are within Kurri Kurri Regrowth Area. These will be managed in accordance the NSW State Government '<u>Guidelines for Riparian Corridors on Waterfront Land</u>'.

There are a number of 1<sup>st</sup> order streams throughout the development and these will be subject to more detailed hydrological modelling to understand their role and function in the subdivision. The Department may determine that a 1<sup>st</sup> order stream that does not exhibit the features of a defined channel with bed and banks, is not waterfront land for the purposes of the Water Management Act.

Objective/s	Development Control/s
To protect, restore and enhance the	Watercourses and riparian corridors are
environmental values and functions of	maintained generally in accordance with Figure
watercourses, waterbodies and riparian	3.
corridors.	
To understand the role and function of 1 <sup>st</sup> order	Detailed hydrological modelling of the 1 <sup>st</sup> order
streams within the development.	streams in a subdivision application is required.
streams within the development.	Modelling is to determine the role and function
To protect the role and function of 1st order	of the 1 <sup>st</sup> order stream in the subdivision
streams in relation to flooding and conveyance	particularly in relation to flooding and the
of overland flow.	conveyance of overland flow and inform their
of overland now.	ongoing management <sup>1</sup> .
To protect, restore and enhance the	Watercourses are to be maintained in a natural
environmental values and functions of	state, buffered by an appropriate vegetated
watercourses, waterbodies and riparian	riparian zone (VRZ), with the maintenance of
corridors.	habitat features such as hollow-bearing trees
	and fallen debris.
	VRZs are to be designed in accordance with the
	NSW State Government 'Guidelines for riparian
	corridors on waterfront land'.
	Applications on land that contain watercourses or VRZs nominated for retention are to include
	a Vegetation Management Plan (VMP).
	a vegetation Management Flan (VIVIF).
	Each VMP shall respond to the function of the
	watercourse and detail:
	The existing native plant community
	types,
	The extent of invasive and non-native
	vegetation,
	A schedule of works for the
	regeneration, vegetation and
	maintenance of the VRZ and
	watercourse,
	<ul> <li>A monitoring methodology for the</li> </ul>
	maintenance period.
	The VMP is to be prepared by a suitably
	qualified and experienced ecologist or bush
	regeneration professional (Certificate IV in
	Conservation and Land Management (or
	equivalent)).
	VRZs are to be rehabilitated and revegetated
	with appropriate native vegetation, using
	species associated with the existing native plant community type and locally sourced seed stock.
	Bushfire Asset Protection Zones (APZ) are to be
	located outside of the VRZ.
	iocated outside of the VNZ.

 $^{\rm 1}$  Additional flood modelling for Regrowth Kurri Kurri is currently being undertaken that may meet the requirements of this development provision.

Watercourse crossings are to be designed to minimise impacts to the VRZ and aquatic habitat in accordance with NSW State Government requirements for fish passage. Watercourse crossings are to be maintained to retain habitat connectivity and water quality.

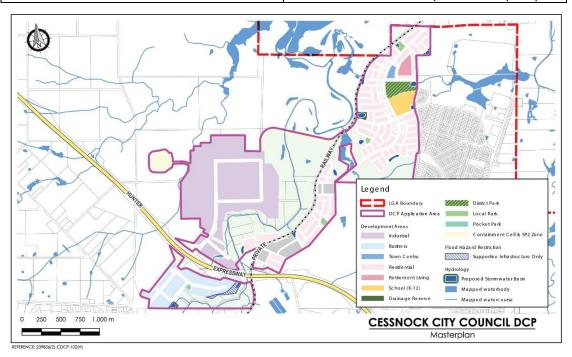


Figure 3 - Regrowth Kurri Kurri Master Plan

#### Biodiversity and environmental areas

An application for the Biocertification (BCAR) of Regrowth Kurri Kurri is currently being assessed by the Department of Planning and Environment – Biodiversity and Conservation Division (BCD). If the BCAR is approved, no further consideration of biodiversity issues in the *certified area* is required. Evidence that commitments required under the BCAR have been met will need to be provided with the DA.

In the interim, if a development application triggers the Biodiversity Assessment Methodology, that development application shall be accompanied by a Biodiversity Development Assessment Report (BDAR) under the Biodiversity Conservation Act 2016. The BDAR process will determine the footprint of development and any commitments including offsets that need to be satisfied ahead of, or as part of the DA.

The following provisions apply to those areas outside BCAR/BDAR process.

Objective/s	Development Control/s
To improve or maintain biodiversity values through habitat conservation, wildlife corridors and habitat linkages through the siting and design of open space networks and riparian corridors.  To retain existing significant trees, where possible due to their potential to habitat for biodiversity.  Development that interfaces environmental areas is designed to minimise impact on those areas from clearing.	Subdivisions are to be designed with consideration of movement of native fauna within and through wildlife corridors by:  • Ensuring development, services and landscaping design do not create barriers to the movement of fauna along and within wildlife corridors • Managing fauna from potential construction hazards through the preconstruction and construction process.  Perimeter roads are to be provided in accordance with Figure 6: Road network map.
Perimeter roads contribute to asset protection zones, discourage illegal access and dumping or garden waste.  Perimeter roads allow for surveillance over environmental areas.	
Street lighting does not generate light spill into	Where perimeter roads are not proposed, the development application must demonstrate that:  • Asset protection zones are wholly within the development footprint;  • No solid fences, e.g. colorbond are permitted between the development and the environmental area.  All street lighting is designed and installed in
adjoining environmental areas.	accordance with AS4282 Control of the Obtrusive Effects of Outdoor Lighting.
To minimise the risk of car-strikes on wildlife.  Road design includes measures protect wildlife moving through the development area.	The road network design is to consider biodiversity management design measures including:  • exclusion fencing; • fauna underpasses or bridges with reference to Transport for NSW biodiversity guidelines; and/or • traffic calming measures such as signposting of roads near biodiversity areas, speed humps or audible surfacing.
High value biodiversity assets are maintained in situ on public lands, environmental areas and riparian corridors.	Existing significant trees and large hollow bearing trees are to be retained, wherever practicable, within public land (e.g. parks), environmental lands and riparian corridors.

Objective/s	Development Control/s
Suitable endemic and native species are	Applications for subdivision are to include
incorporated into the landscaping of public	landscape design plans for streets and
spaces including streets and parks.	open/recreational spaces with consideration of
	suitable indigenous local provenance species
	(trees, shrubs and groundcovers).

## Stormwater and Water Quality

Objective/s	Development Control/s
To manage and control the quantity and quality of stormwater generated by the development.	Development applications for subdivision are to be accompanied by a Stormwater Management Plan and associated modelling and report which will include:
	<ol> <li>an On-Site Detention (OSD) Plan; and</li> <li>a Water Quality Management Plan.</li> </ol>
To ensure that potential impacts of overland flow	The OSD plan shall:
path modifications are negligible.	<ol> <li>Assess the impacts of any proposed alteration, filling, piping or</li> </ol>
To encourage and facilitate the capture and reuse or slow release of stormwater where	modification of overland flow paths on the local catchment, particularly
appropriate.	the impacts on the neighbouring properties and downstream/upstream
To facilitate unimpeded release of stormwater for improved flooding outcomes where	environments must be identified and resolved.
appropriate.	<ol> <li>Ensure that development achieves the unimpeded release of stormwater where there is no adverse effect on adjacent properties.</li> </ol>
	<ol> <li>Where OSD is proposed, structures are in accordance with Council's Engineering Guidelines for Design and Construction.</li> </ol>
	<ol> <li>Consider the capacity of the Hunter Expressway Culvert.</li> </ol>
	<ol> <li>Allow for a maximum of the capacity of rainwater tanks to be utilised for on- site detention.</li> </ol>
The development meets the minimum	The Water Quality Management Plan shall
requirements of the Australian Runoff Quality	ensure stormwater quality treatment is
(ARQ) 2006 – A Guide to Water Sensitive	designed to meet the following minimum
Urban Design.	requirements in accordance with the Australian
	Runoff Quality (ARQ) 2006 – A Guide to Water
To encourage water sensitive urban design	Sensitive Urban Design:
(WSUD).	• Total suspended solids: 80%,
	• Total pitrogen, 45%,
	<ul> <li>Total nitrogen: 45%</li> </ul>

### <u>Heritage</u>

### Aboriginal Cultural Heritage

The site contains several Aboriginal Archaeological sites of high, low and no sensitivity.

Objective/s	Development Control/s
To require further investigation of Aboriginal archaeological sites identified as significant on lands to be developed for urban purposes.	Applications for the subdivision of land are to be accompanied by a preliminary Aboriginal cultural assessment prepared by an appropriately qualified person in accordance with the NSW State Government's 'Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW'.
To ensure that any Aboriginal significance is appropriately incorporated into the development of the precinct.	Where required, the application for subdivision of land is to be accompanied by an Aboriginal cultural heritage assessment report prepared by an appropriately qualified person in accordance with the NSW State Government's 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW'.

### European Heritage

The site contains a local Heritage Item I212 South Maitland Railway System. This comprises a main operable rail line, South Maitland Railway and the former Stanford Railway. The following provisions apply to the Stanford Railway only.

Objective/s	Development Control/s
To conserve and interpret the previous uses of	Interpretation signage and/or in ground
the site in the context of its historical,	pavement treatment is to be considered at
technological, and social significance.	locations where new roads or shared pathways
	intersect the former Stanford Railway.
	A Heritage Impact Statement (HIS) prepared by
	a suitably qualified Heritage Consultant that
	considers the visual and physical impacts of the
	proposed development works on or within the
	vicinity of the South Maitland Railway System
	corridor is required.
	The subdivision design and road layout must
	respond the railway system alignment and
	ensure its continued interpretation.
	Any roadway, footpath or cycleway across the
	railway corridor must provide for some tactile
	interpretation of the corridor, such as a change
	pavement design, interpretative art or other
	appropriate treatment.

### <u>Hazards</u>

### Flooding

Objective/s	Development Control/s
Objective/s  To ensure clarity of the final landform heights and minimum fill levels to be applied to development.	For a period of five (5) years from the date of this Chapter coming into effect, the following levels/heights¹ are to be utilised:  • The final landform height for residential development generally is to be at or above the Hunter River 0.5% AEP flood level (i.e., 10.7m AHD).  • The final landform for residential development along and surrounding Dawe's Road is to be at or above the Swamp Creek PMF flood level (i.e., between 11.7m AHD and 13.1m AHD).  • The final landform for residential roads (exclusive of those nominated as flood safe access roads) is to be at or above the Hunter River 1% AEP flood level + 0.5m (i.e., 10.2m AHD)  • The final landform height for land zoned B1 Local Centre is to be at or above the 0.5% AEP Hunter River flood level (i.e., 10.7m AHD).  • The final landform height for the main employment area (the former Hydro Aluminium Facility) is to be 9.7m AHD (Hunter River 1% AEP flood level).  • The minimum fill level within the employment areas (south of the Hunter Expressway) is to be the 1% Swamp Creek AEP (i.e., 10.9m AHD to 12.2m AHD).  In the event that the parameters (such as but not limited to those arising from staging or detailed subdivision design works, amendments to the FRM 2023 or Australian Rainfall and Runoff Guidelines) of the Flood Impact and Risk Assessment (FIRA) from which these levels were derived change, OR at the conclusion of the five (5) year period, a revised FIRA, consistent with the Flood Risk Management (FRM) Manual 2023 and supporting guidelines (as amended or revised) is to be prepared to support any development application for subdivision of the
To provide clarity as to the flood levels to be	land.  For a period of five (5) years from the date of
applied when determining the location and supply of open space.	this Chapter coming into effect, the following flood levels <sup>2</sup> are to be utilised for the purposes

<sup>&</sup>lt;sup>1</sup> The levels specified are derived from: Torrent Consulting (2024) *Regrowth Kurri Kurri Planning Proposal Flood Impact and Risk Assessment*, Wallsend, NSW, Australia.

<sup>&</sup>lt;sup>2</sup> As above

Objective/s	Development Control/s
Objective/s	of determining the location of open space as per Council's Recreation and Open Space Strategic Plan:  • Central Precinct: Hunter River 1% AEP (i.e., 9.7m AHD) and Hunter River 2% AEP (i.e., 7.7m AHD)  • Southern Residential Precinct: Hunter River 1% AEP (i.e., 9.7m AHD)  • Eastern employment area upstream of the Hunter Expressway: Swamp Creek 1% AEP (i.e., between 10.9m AHD and 12.2m AHD)  In the event that the parameters (such as but not limited to those arising from staging or detailed subdivision design works, amendments to the FRM 2023 or Australian Rainfall and Runoff Guidelines) of the Flood Impact and Risk Assessment (FIRA) from which these levels were derived change, OR at the conclusion of the five (5) year period, a revised FIRA, consistent with the Flood Risk Management (FRM) Manual 2023 and supporting guidelines (as amended or revised) is to be prepared to support any development application for subdivision of the
To ensure flood safe access to and from the	land. Flood safe access for storm events up to PMF is
site during Hunter River Floods.	provided generally in accordance with Figure 4.
Flood-free access above the Hunter River PMF level is to be achieved for the development and Gillieston Heights.	
To ensure the Hunter Expressway culvert has the capacity to accommodate increased runoff from development within the Zone E3 Productivity Support land.  Development within the Zone E3 Productivity Support land does not result in increased flood risk to properties upstream of the Hunter Expressway culvert.	The capacity of the Hunter Expressway culvert and the need for on-site detention shall be assessed as part of any subdivision application relating to the Zone E3 Productivity Support land.
To accommodate potential future risks associated with Climate Change and flooding within the Swamp Creek catchment and clarify the minimum floor levels for employment land development <sup>3</sup> .	The minimum floor level for development within the employment areas (south of the Hunter Expressway) will be required to include a 0.5m freeboard above the 1% AEP Swamp Creek flood levels.

<sup>3</sup> The levels specified are derived from: Torrent Consulting (2024) *Regrowth Kurri Kurri Planning Proposal Flood Impact and Risk Assessment*, Wallsend, NSW, Australia.

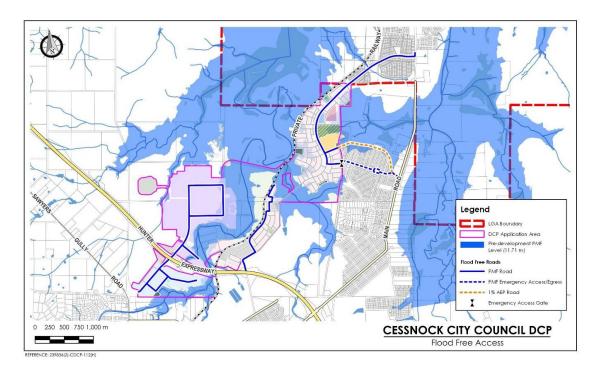


Figure 4 – Flood safe access

# Bushfire

The site is mapped as Bushfire Prone Land (BPL).

Objective/s	Development Control/s
To afford buildings and their occupants	Development Applications for subdivision must
protection from exposure to a bush fire.	be accompanied by a Bushfire Assessment
	Report in accordance with the NSW Rural Fire
To provide for a defendable space to be located	Service document titled 'Planning for Bushfire
around buildings.	Protection' to the satisfaction of NSW Rural Fire
	Services (RFS) and Council.
To provide appropriate separation between a	
hazard and buildings which, in combination	
with other measures, prevent the likely fire	Asset Protections Zones (APZs) shall be located
spread to buildings.	within land zoned for urban development and
	outside of the VR7.
To ensure that appropriate operational access	outside of the VII.
and egress for emergency service personnel	
and occupants is available.	
To provide for ongoing management and	
maintenance of Bushfire Protection Measures	
(BPMs).	
To ensure that utility services are adequate to	
meet the needs of firefighters.	

#### Contamination

The site has been subject to potentially contaminating activities. Part of the site was formerly an aluminium smelter, a railway corridor runs through the area and some areas are still used for agriculture.

The management of contamination across the site is complex. The remediation works for the Smelter site were approved under State Significant development application number: SSD 6666 issued by the Department of Planning, Industry and Environment dated 23 December 2020. The regulation and compliance of that remediation is overseen by the State Government and there is no onus on the State to report to Council on this matter. However, when assessing a development on the site, Council needs to be assured that the contamination issues have been addressed. Therefore, the following controls require the applicant to provide evidence that the site has been remediated and is suitable for development.

Areas outside the E4 and E5 zones, will be assessed in accordance with State Environmental Planning Policy (Resilience and Hazards) 2021, Council's Contaminated Lands Development Control Plan and Contaminated Land Policy-Land Use Planning.

### Objective/s

To minimise risk to human health and the environment from the development of potentially contaminated land.

To ensure commitments to the remediation of the site have been completed.

### Development Control/s

Any application located within the E4, E5 zones are to be accompanied by a remediation validation report for the subject land. The remediation validation report is to include:

- The remediation works undertaken
- Validation testing carried out and assessment against the validation criteria
- Final condition of the subject land
- Documentation that the report has been completed to the satisfaction of the appointed Site Auditor.

Any application located within the E4, E5 zones are to be accompanied by a Site Audit Report and Site Audit Statement prepared by an accredited Site Auditor under the Contaminated Land Management Act 1997. The Site Audit Report and Site Audit Statement are to include:

- Confirmation the remediation works at the subject site have been completed in accordance with the approved remedial action plan
- Risk to human health and the environment have been addressed in accordance with the approved remedial action plan
- Suitability of the site for the intended use.

### Noise and Vibration

The area is affected by noise and vibration of the South Maitland Railway Line, Main Road and Hunter Expressway. Future subdivisions must ensure that the design responds to impacts from these sources and that any acoustics treatments such as noise walls do not exacerbate flooding.

Objective/s  To minimise risk to human health from noise at the time of subdivision.  To protect the safety and integrity of key transport infrastructure from adjacent development.  To ensure that adjacent development achieves an appropriate acoustic amenity by meeting the internal noise criteria specified in the Infrastructure SEPP.	Development Control/s  Development Applications for subdivision are accompanied by an acoustic and vibration assessment.  The assessment shall:  • measure the expected noise levels, and vibration impacts from the South Maitland Railway Line, Main Road and the Hunter Expressway;  • map the affected areas; and  • provide mitigation measures to meet the internal noise criteria specified in the SEPP (Transport and Infrastructure) 2021.
	The assessment should be undertaken by a suitability qualified acoustic consultant to ensure that the properties are designed and constructed in accordance with the NSW DPE's document titled 'Development near Rail Corridors and Busy Roads – Interim Guideline' to achieve acceptable internal noise amenity, regarding the external noise exposure levels.
To increase the likelihood that fencing will be maintained.	Where fencing is identified as an appropriate mitigation mechanism, that fencing shall be:  • located within the development area;  • constructed as part of the subdivision; and  • maintained in perpetuity by that landowner.
Hard interventions such as earthen mounds and noise walls do not increase the risk of flooding to properties or alter flood behaviour.	A Flood Impact Assessment must be provided for all noise walls and mounds. The Flood Impact Assessment must demonstrate that the intervention will not impact flooding and flood behaviour.

To minimise the risk of pedestrians and animals crossing the South Maitland Railway Line.

To restrict access to the railway corridor and improve safety.

Subdivision in proximity to the South Maitland Railway Line will require security fencing.

Security fencing shall be constructed along the full alignment of the subdivision adjoining the rail corridor, and

- be a minimum height of 1.8m;
- be constructed to deter climbing;
- located within the development area;
- constructed as part of the subdivision; and
- maintained in perpetuity by that landowner.

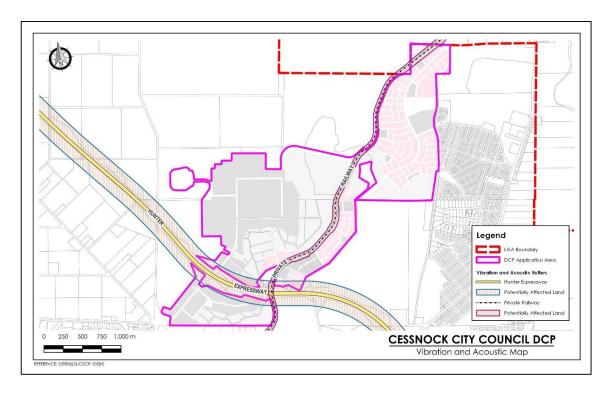


Figure 5 - Regrowth Kurri Kurri Master Plan

# Subdivision Design

# Street Network and Design

Objective/s	Development Control/s
To provide a hierarchy of interconnected streets that provide safe, convenient, and clear access.  To ensure that the hierarchy of streets is clearly discernible through variations in the carriageway width, on-street parking, street tree planting, and pedestrian amenities.	The street network is generally provided in accordance with the Figure 6. The road design/layouts/reservations are to be provided generally in accordance with Road Sections Figure 7 - Figure 12, subject to the requirements and agreement of Council and/or TfNSW.
To support redistribution of traffic on the State road network and to mitigate local traffic volumes on HEX	Prior to development of the employment land exceeding a total floor area (equivalent to 50% of the employment land zoning), and unless otherwise agreed in writing by TfNSW, a continuous local road connection linking Hart Road to the Maitland LGA must be in place.
To encourage the use of streets by pedestrians and cyclists and to allow cars, buses, and other users to proceed safely without unacceptable inconvenience or delay.	Except where otherwise provided for in this Chapter, all streets and intersections are to be designed and constructed in accordance with Austroads Guide to Traffic Management and Australian Standards AS 1742, 1732 and 2890.
	Cycleways, pedestrian paths and shared pathways will be provided and integrated in the subdivision as shown in Figure 13.

### Public Transport Network

Objective/s	Development Control/s
To encourage the use of public transport.  To ensure clear, safe pedestrian links to public	Bus routes are generally provided on sub- arterial, and collector roads in accordance with
transport stops.	Figure 6 and in consultation with local bus service providers.
	Bus stops are provided in consultation with local bus service providers.

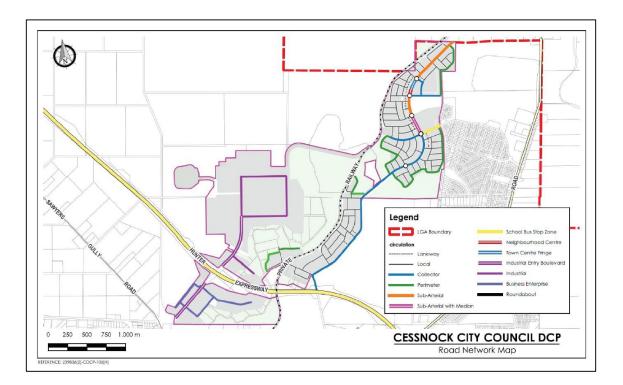


Figure 6 – Road Network Map

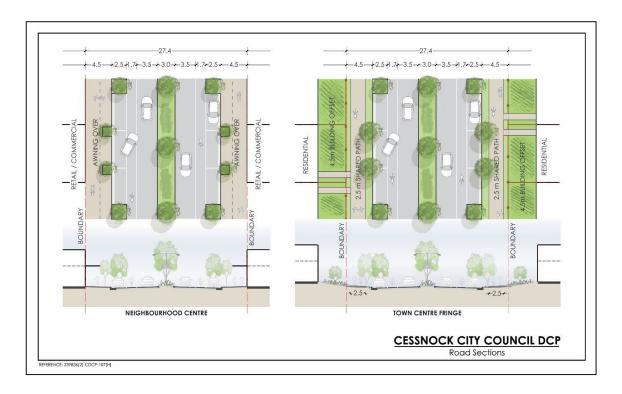


Figure 7 - Road sections: Neighbourhood centre and town centre fringe

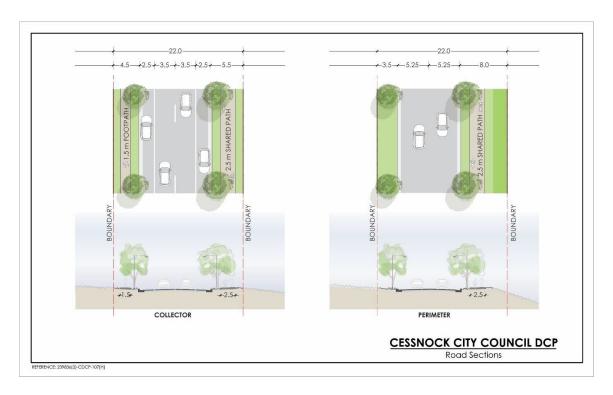


Figure 8 - Road sections: Collector and perimeter roads

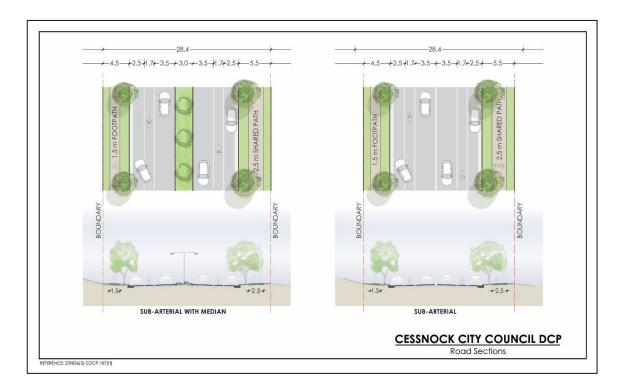


Figure 9 - Road sections: Sub-arterial

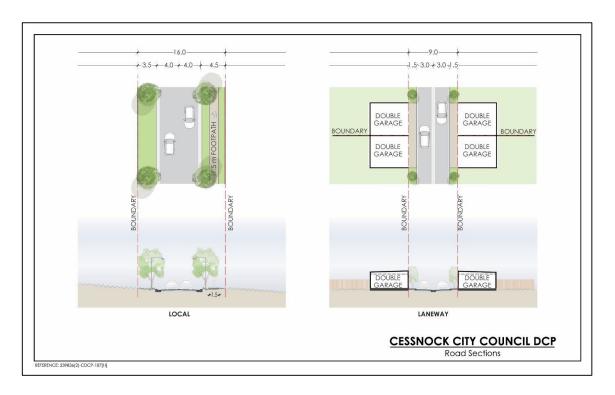


Figure 10 - Road sections: Local and laneway

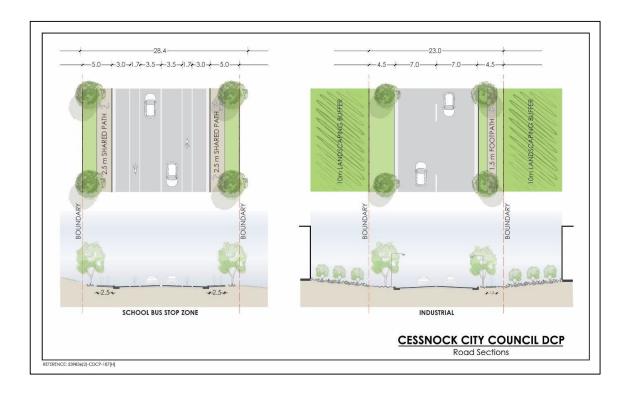


Figure 11 - Road sections: Bus stop zone and industrial

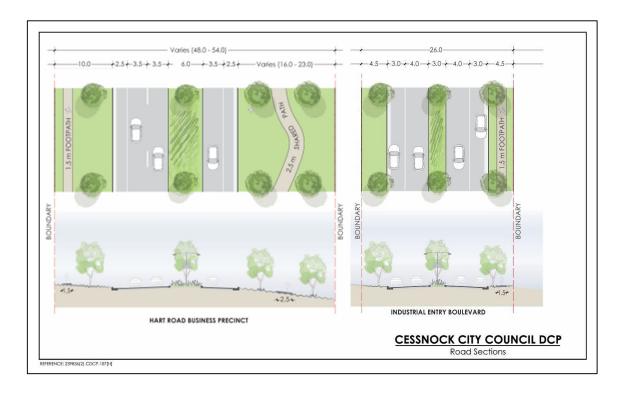


Figure 12-Road sections: Business and industrial entry boulevard

# Pedestrian and Cycle Network

Objective/s	Development Control/s
To provide a convenient, efficient, and safe network of pedestrian and cycleway paths for the use of the community, within and beyond the site.	Footpaths and cycle paths are to be provided in accordance with Figure 7 - Figure 13.
To provide a functional network of footpaths and cycle paths throughout the development.	
To allow residents to walk or cycle.	Pedestrian paths, cycle routes and facilities are to be safe, well lit, clearly defined, and accessible.
To encourage active transport alternatives to motor vehicles.	Pedestrian paths and cycle pathways are to be constructed as part of the infrastructure works for each residential stage.
To avoid duplication by allowing pedestrian pathways and cycleways to be located within parks and corridors wherever practical.	Pedestrian paths, cycle paths and pedestrian refuge islands are to be designed in accordance with Council's Engineering Standards and Australian Standard 1428:1-4.

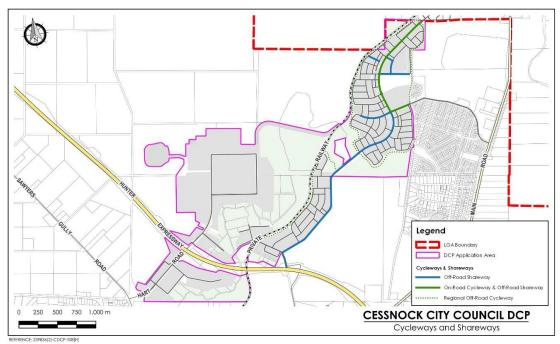


Figure 13 - Cycleway and shareways map

# Open Space

Objective/s	Development Control/s
Public open space complies with the requirements of the Cessnock Recreation and	Open space is to be provided generally in accordance with Figure 14.
Open Space Strategic Plan.	The embellishment of open spaces shall be in accordance with the Cessnock Recreation and
To provide public open space that meets the recreational needs of residents.	Open Space Strategic Plan 2019.

# Low Density Residential

Objective/s	Development Control/s
To establish a clear urban structure that	Street blocks are generally in accordance with
encourages walking and cycling.	Figure 3.
chedulages waiking and eyemig.	Tigare 3.
To create permeable local areas.	Where this cannot be achieved, street blocks are
·	to be generally 150m to 180m in length.
To provide lot sizes, lot shapes and orientation	Residential lots should generally be rectangular
that encourage sound design and development outcomes.	in geometry.
	Where lots are irregular in shape, they are to
	be large enough and orientated appropriately
	to enable dwellings to meet relevant DCP
	controls relating to front, side, and rear
	setbacks.
To ensure that all residential lots are afforded a	Lots shall be oriented on a north-south or east-
high level of solar access, views, outlook and	west orientation.
proximity to public and community facilities	
and parks.	Where this is not possible, Council may
	consider alternative lot orientation where it is
	demonstrated:
	that other amenities, such as views or     frontage to sufficient ones space is
	frontage to sufficient open space is available; or
	increased lot size or widths provide
	adequate solar access.
To encourage surveillance over both streets	Corner lots are to be designed to address both
from corner lots.	street frontages.
	Corner lots are to be sized to accommodate a
To minimise the visual impact of fences and	dual occupancy that addresses both streets.
retaining walls constructed on corner lots.	Where a dwelling house is proposed on a
	corner lot, the fence on the secondary street:
	<ul> <li>Is not a solid colorbond-type fence;</li> </ul>
	<ul> <li>Uses changes in materials, landscaping</li> </ul>
	and articulation.
	Retaining walls on the boundary are generally
	not supported on secondary frontage unless
	satisfactorily integrated into the streetscape.

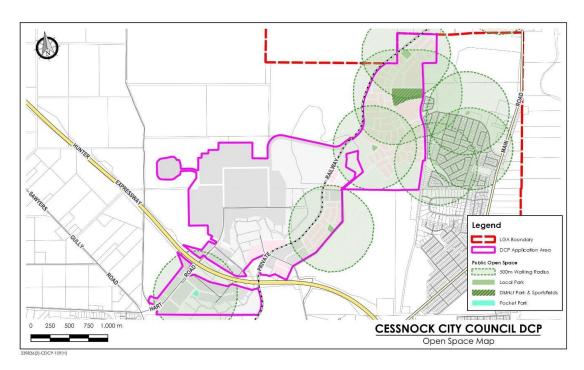


Figure 14 – Open space map

### Town Centre and Market Square

The development includes a small town<sup>2</sup> centre that is around 1Ha in area. The centre may provide a range of local services and facilities to meet the day-to-day needs of the community. The centre should be integrated with adjoining open space to reinforce it as a community node and be highly accessible by walking and cycling paths from the surrounding residential areas. Where appropriate, higher-density residential uses should adjoin the town centre and park lands.

Objective/s	Development Control/s
To achieve a sense of street enclosure where distinct edges to public spaces and important streets are required.	The town centre and market square are designed and developed generally in accordance with Figure 15.
To ensure informal surveillance of streets and public spaces.	Zero lot boundaries and active street frontages are provided by retail uses along the main street.
To ensure the provision of adaptable development blocks capable of accommodating a range of urban uses.	
To encourage the provision of interconnecting streets and public spaces which promote direct connectivity, wayfinding and ease of use and functionality.	
To promote community interaction through the provision of a town centre with well-designed public open spaces and centrally located community facilities.	
To define the town centre as a destination through urban form and design, distinctive and high-quality architecture.	A public domain plan shall accompany the first development application for any built-form component on the land with the E1 Local Centre zone to the satisfaction of Council.
To create a dynamic, safe, aesthetic and multifunctional node.	<ul> <li>The public domain plan shall include:         <ul> <li>a plan showing proposed buildings locations, potential uses, parking areas, access locations, public areas, loading facilities;</li> <li>detailed street design including crossing points, gateway treatments, landscaping, signage and street furniture;</li> <li>cycle and pedestrian facilities;</li> <li>public transport stops; materials, street furniture and landscaping palettes.</li> </ul> </li> </ul>

<sup>&</sup>lt;sup>2</sup> Note: The generic Centres DCP Chapter applies to development in this centre. The generic controls apply to the development and only where there is a control in this DCP that is unique to the site, that control prevails.

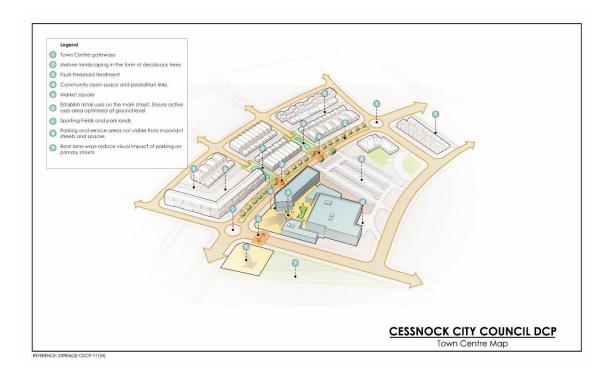


Figure 15 - Indicative town centre plan

### E3 Productivity Support Precinct

Regrowth Kurri includes an area of E3 Productivity Support zoned land along Hart Road. The purposes of the E3 Productivity Support zone is to provide a range of facilities and services, light industries, warehouses and offices that are generally ill-suited in other business zones such as those with large floor plates.

The area is a very important gateway from the Hunter Expressway into the LGA. The Hart Road interface will be a high exposure corridor and the development is likely to be visible from the Expressway in both directions.

The SEPP (Exempt and Complying Development Codes) 2008 allows new buildings in the E3 zone for a specified use to be assessed as complying development where the design of the development is consistent with the relevant design criteria set out in the <u>Business Zone Design Guide</u>.

Development assessed through a development application under Part 4 of the *Environmental Planning* and Assessment Act 1979, will be assessed against the relevant design criteria in the Business Zone Design Guide. Any variation to the design criteria will be assessed against the future desired character for the precinct and the corresponding objective/s.

Objective/s	Development Control/s
The E3 Productivity Support Precinct is	A masterplan prepared for the whole of the E3
holistically designed to create an integrated,	Productivity Support zone must be prepared to
functional and cohesive precinct.	Council's satisfaction and submitted with the
	first subdivision application.

Objective/s	Development Control/s
To define a future character that informs	The masterplan must:
quality and enduring design outcomes for	<ul> <li>address the principles of the <u>Business</u></li> </ul>
developments in the precinct that are	Zone Design Guide <sup>3</sup> ;
responsive to place and context.	<ul> <li>describe the future desired outcome</li> </ul>
	for the precinct <sup>4</sup> ;
To create a high-quality gateway into the Local	<ul> <li>demonstrate how the Hart Road</li> </ul>
Government Area from the Hunter Expressway.	interface is to be treated to contribute positively to the corridor and as a
To encourage a built form that contributes to	gateway into the LGA;
the character of the precinct and reinforces the	be informed by the a Visual Impact
Hart Road corridor.	Assessment that assesses the visibility
To minimise the visibility of signage and built	of the development, including signage
from on the Hunter Expressway.	from the Hunter Expressway;
Tom on the Hunter Expressively.	<ul> <li>provide streetscape details including road configuration, cross-sections,</li> </ul>
To protect, restore and enhance the	pedestrian and cycling infrastructure,
environmental values and functions of	access points and landscaping;
watercourses, waterbodies and riparian	<ul> <li>provide an appropriate interface with</li> </ul>
corridors.	Swamp Creek that minimises impact of
	development on the riparian corridor,
	addresses bushfire protection
	requirements and stormwater
	management and allows for the
	management of the corridor; and
	<ul> <li>Provide guidance on materials,</li> </ul>
	landscaping, fencing and any street
	furnishing.
	The design of the development is consistent
	with the relevant design criteria set out in the
	Business Zone Design Guide and the approved
	masterplan.
	A DA for development within land zoned SP2
	Stormwater Management for purposes other
	than for stormwater management purposes is
	to be accompanied by a Flood Impact and Risk
	Assessment (FIRA) that demonstrates that the
	proposed development is compatible with the
	flood hazard of the land.
To protect, restore and enhance the	The Swamp Creek corridor at the rear of the
environmental values and functions of	development is managed in accordance with
watercourses, waterbodies and riparian	the relevant provisions under 'Watercourses
corridors.	and riparian corridors' above.

<sup>&</sup>lt;sup>3</sup> The DPE Business Zone Design Guide includes 5 principles: Place and Context, Integration and Connection, Aesthetics and Appearance, Greening the Grey and Resilient Buidlings.

 $<sup>^{\</sup>rm 4}$  The 'Desired Future Character' is a requirement of the Business Zone Design Guide.

### E4 General Industry and E5 Heavy Industry Precinct

This part applies to development located within those locations zoned E4 General Industrial and E5 Heavy Industrial.

### Objective/s

To achieve functional and attractive environments.

To minimise the impact of large expanses of walls and create visual interest.

To provide clear entry points to buildings.

To provide for convenient and legible access by vehicles and pedestrians.

To minimise conflict between vehicles and pedestrians.

To reduce the dominance of building frontages in the street scape.

To locate site servicing infrastructure and equipment away from public view.

### Development Control/s

Industrial building siting and design are to be consistent with the following principles:

- Blank walls must be minimised by incorporating a combination of change in materials, setback variation, architectural details and/or landscaping.
- Buildings are oriented to the street with offices, showrooms or cafes addressing the street.
- Pedestrian entries are provided on the street façade.
- Separate vehicle and pedestrian access are provided to the site from the street.
- Visitor parking is located at front of the building or to its side near the front, away from areas where loading vehicles may be queuing or reversing.
- Staff parking areas are located to the side of the building (screened by landscaping) or behind it.
- High-quality landscaping is provided within front setbacks, including visitor parking areas.
- Loading areas, truck queuing and parking, and outdoor storage areas are located to the side or rear of the building.
- A dedicated rubbish bin storage area is provided in a concealed location.
- Landscape buffers are provided at interfaces with other uses.
- Service equipment and plant is located within the building design or screened from view.
- Business identification signage is minimal and integrated within the design of the building.

Objective/s	Development Control/s
To provide a consistent approach to setbacks,	Front setbacks are:
so that consistent building envelopes are	A minimum of 10m,
achieved in this precinct.	Where the site is a corner lot a
·	minimum 10m setback is provided on
Buildings in the front setback are integrated	both frontages, and
into the main building.	Single storey offices or industrial retail
	outlets <sup>5</sup> are permitted within the front
The built form positively contributes to the	setback area if they are ancillary to the
streetscape.	primary industrial building's use. Such a
	structure must be designed as an
	integral part of the built and must not
	exceed 50% of the primary building
	frontage.
To allow for the planting and healthy growth of	A landscaping plan must be prepared to the
large canopy trees which enhance amenity and	satisfaction of Council for any development
street character.	application.
	The landscaping plan must provide the
	following in the front setback:
	Landscaping must include installation and maintenance of at least one
	and maintenance of at least one advanced clear-trunked broad canopy
	tree for every 20m² of front setback
	area.
	The deep soil volume for each tree in
	the front setback area must be a
	minimum of 8m <sup>2</sup> and between 600 and
	750mm deep.
	Each area allocated to tree planting
	must have a corresponding clear air
	space that is at least eight metres high
	and six metres in width.
	All trees installed must be advanced
	stock, and at least 45L container size.
	<ul> <li>Understorey planting must comprise</li> </ul>
	low growing species less than 900mm
	in height.

<sup>5</sup> Clause 5.4 of the Cessnock Local Environmental Plan 2011 limts the floor area of an industrial retail outlet to the lesser of 10% of the gross floor area or 100m2.

Objective/s	Development Control/s
To provide broad-canopy tree cover in car parks	The landscaping plan must provide the
for shade and shelter.	
	<ul> <li>The landscaping plan must provide the following in in car parks:         <ul> <li>The supply, installation, and maintenance of at least one advanced clear-trunked broad canopy tree for every six at-grade car parking spaces.</li> <li>Each landscaping planting area must include at least one medium to large tree species, with suitable ground covers or low shrubs below.</li> <li>Each landscape planting area must have a minimum width of two metres.</li> <li>The root volume for each tree in the front setback area must have a minimum width of two meters.</li> <li>The deep soil volume for each tree in the front setback area must be a minimum of 8m³ and between 600 and 750mm deep.</li> <li>The root volume must be either existing deep soil or equivalent volume of hap graded (load bearing) soils with a porous vehicle pavement on top, which is installed to the manufacturers' specifications.</li> <li>Each area allocated to tree planting</li> </ul> </li> </ul>
	must have a corresponding clear air space that is at least eight metres high and six metres in width.  • All trees installed must be advanced
	stock of at least 75L container size.  All trees installed must be established and
	maintained for the life of the development. Any failed trees must be replaced immediately.
To avoid the dominance of fences on the streetscape and potentially hostile designs, and to soften the built environment in industrial areas.	Security gates and fencing may be erected on or just forward of the building line, provided:  • it does not exceed a height of 2 metres,  • is designed for maximum visibility, and  • is screened by landscaping.  Fencing forward of the 5-metre setback must:  • not exceed a height of 1.2 metres.  • be constructed of masonry or dark coloured Diplomat style fencing, in combination with vegetation.