

Moreton Bay Regional Council – Pine Rivers Shire

Planning Scheme Policy

PSP24 Development Contributions for Trunk Infrastructure
– Stormwater

Moreton Bay Regional Council – Pine Rivers Shire

PSP24 Development Contributions for Trunk Infrastructure – Stormwater

ADOPTION

Pine Rivers Shire Council adopted this planning scheme policy on 19 June 2006.

COMMENCEMENT

This planning scheme policy took effect from 15 December 2006.

Amendment 2/2008

ADOPTION OF AMENDMENT

Moreton Bay Regional Council adopted this amendment to the planning scheme policy on 19 August 2008.

COMMENCEMENT OF AMENDMENT

This amendment to the planning scheme policy took effect from 1 September 2008.

Amendment 1/2009

ADOPTION OF AMENDMENT

Moreton Bay Regional Council adopted this amendment to the planning scheme policy on 8 September 2009.

COMMENCEMENT OF AMENDMENT

This amendment to the planning scheme policy took effect from 29 October 2009.

I, Daryl Hitzman, A/Chief Executive Officer, of the Moreton Bay Regional Council, hereby certify that this document is a true copy of the original.



Daryl Hitzman
A/Chief Executive Officer

Table of Contents

HEAD OF POWER	1
OBJECTIVE	1
DEFINITIONS / APPLICATION	1
POLICY STATEMENT	1
1 SCOPE	1
2 BACKGROUND INFORMATION	2
3 STORMWATER METHODOLOGY	3
3.1 METHODOLOGY.....	3
3.2 STORMWATER SERVICE CATCHMENTS.....	6
3.3 BASIS FOR DEMAND ASSESSMENT.....	7
3.4 STORMWATER DEMAND IN CATCHMENTS (DEMAND UNITS).....	9
4 STORMWATER PLAN FOR TRUNK INFRASTRUCTURE	10
4.1 STORMWATER TRUNK INFRASTRUCTURE NETWORK.....	10
4.2 STORMWATER TRUNK INFRASTRUCTURE ITEMS.....	10
4.3 STORMWATER TRUNK INFRASTRUCTURE DETERMINATION.....	11
4.4 STORMWATER TRUNK INFRASTRUCTURE VALUATIONS.....	11
4.5 EXISTING STORMWATER TRUNK INFRASTRUCTURE.....	12
4.6 FUTURE STORMWATER PLAN FOR TRUNK INFRASTRUCTURE.....	12
4.7 STORMWATER INFRASTRUCTURE COSTS BY CATCHMENT.....	25
SCHEDULE A: DEMAND FACTORS	27
SCHEDULE B: INFRASTRUCTURE CONTRIBUTION RATES	28
SCHEDULE C: SERVICE CATCHMENTS	29
SCHEDULE D: NETWORK ASSETS	76
SCHEDULE E: DESIRED STANDARDS OF SERVICE	111
REVIEW TRIGGERS	118
RESPONSIBILITY	118
VERSION CONTROL	118

PSP 24 – DEVELOPMENT CONTRIBUTIONS FOR TRUNK INFRASTRUCTURE – STORMWATER

Head Of Power

This document is a Planning Scheme Policy for the purposes of the *Integrated Planning Act 1997* (the Act) and is made in compliance with the process prescribed in Schedule 3 of the Act.

Objective

The objective of this policy is to apportion the cost of Stormwater Trunk Infrastructure over all benefiting development (existing and future) commensurate with the demand or load that existing and future development will place on existing and planned future infrastructure, while ensuring a reasonable and equitable distribution of the costs of Stormwater Trunk Infrastructure works between Council and developers of land in the former Pine Rivers Shire.

Definitions / Application

Application

This policy applies to all applications for development which has been made assessable against the *PineRiversPlan* and which will utilise any part of the Stormwater Trunk Infrastructure Network. For the purposes of this policy, the extent of the Stormwater Trunk Infrastructure Network within the former Pine Rivers Shire is shown in Schedule D.

The policy outlines the basis of Council's Infrastructure Contributions Regime for Stormwater Trunk Infrastructure (Water Quality and Stormwater Discharge Quantity) in the former Pine Rivers Shire. It is to be read in conjunction with Planning Scheme Policy PSP21 Development Contributions for Trunk Infrastructure – Administration Policy.

Payment of any monetary contribution under this policy will in no way relieve the development proponent from any requirement under a condition of development approval to undertake non-trunk works or to connect the development to trunk infrastructure. Nothing contained in this policy precludes Council and the development proponent from entering into an infrastructure agreement in regard to the matters dealt with by this policy.

Definitions

The definitions of applicable terms are contained in PSP21 Development Contributions for Trunk Infrastructure – Administration Policy. Where a term used in this policy is not defined in PSP21 that term shall, unless the context indicates or requires otherwise, have the meaning assigned to it in the *PineRiversPlan* or in the *Integrated Planning Act 1997*.

Policy Statement

1 Scope

This policy sets out the basis for determining the amount of Development Contributions for Stormwater Trunk Infrastructure which Council will impose as conditions of development approval. The provisions of this policy shall apply to applications for development within the former Pine Rivers Shire which, in the opinion of Council, may impact on its Stormwater Trunk Infrastructure either immediately or at some time in the future. This policy:

- is to be read in conjunction with Planning Scheme Policy PSP21 Development Contributions for Trunk Infrastructure – Administration Policy;
- specifies the assumptions made in determining the rate of the contribution payable towards the cost of Stormwater trunk infrastructure within the former Pine Rivers Shire;
- specifies the works, structures and/or equipment, which the Council determines to be Stormwater Trunk Infrastructure;
- establishes the estimated cost of construction and any required augmentation of the Stormwater Network where contributions are to be made in terms of Stormwater Quality and Stormwater Drainage (Quantity) costs; and
- lists the applicable Demand Factors and Schedules of Infrastructure Contribution Rates.

2 Background Information

The methodology used in establishing the amount of required Trunk Infrastructure Contributions under this policy is based on the report by John Wilson and Partners (JWP), “Priority Infrastructure Plan Stormwater” (the Study Report). This Study Report comprises:-

- (1) Part 1 – Executive Summary (June 2008);
- (2) Part 2 – Main Report (June 2008);
- (3) Part 3 – Detailed Maps (June 2008); and
- (4) Part 4 – Calculations and Supporting Data (June 2008);

The Study Report in turn was based on, and had regard to, the following:

- Freshwater Creek Catchment Management Plan, Gutteridge Haskins & Davey Pty. Ltd., June, 1996;
- Cabbage Tree Creek Catchment Management Plan, Brisbane City Council, March, 1999;
- Saltwater Creek Catchment Management Plan, Geo-Eng Australia Pty. Ltd., June 2000;
- One Mile Creek Catchment Management Plan, Gutteridge Haskins & Davey Pty. Ltd. May, 2001;
- Four Mile Creek Catchment Management Plan, John Wilson & Partners Pty. Ltd., November, 2001;
- South Pine River Catchment Management Plan, John Wilson & Partners Pty. Ltd. August, 2004;
- Strathpine (Bells Pocket Road Area) Local Area Drainage Plan, John Wilson & Partners Pty. Ltd. – 2002 Revised;
- Strathpine Industrial Area Local Area Drainage Plan, John Wilson & Partners Pty. Ltd., December, 2001;
- Kallangur Business Area Local Area Drainage Plan, John Wilson & Partners Pty. Ltd. – 2002 Revised;
- Kallangur (East of Duffield Road) Local Area Drainage Plan, John Wilson & Partners Pty. Ltd. – 2002 Revised;
- Duffield Road, Kallangur (Kahala Road to Freshwater Creek) Local Area Drainage Plan, John Wilson & Partners Pty. Ltd., 1999;
- Petrie (Young Street Area) Local Area Drainage Plan, John Wilson & Partners Pty. Ltd. – 2002 Revised; and
- Todds Gully Hydrological Investigation, John Wilson Partners, 1993.

The Trunk Infrastructure shown within the ‘Study Report’ for the Griffin Catchment was derived by using outline planning and has been replaced by Trunk Infrastructure identified in the following subsequent report:

- “Griffin Area Catchment Management Plan”, WorleyParsons, 2009.

3 Stormwater Methodology

3.1 Methodology

Determination of infrastructure for stormwater quantity and quality management has been undertaken for catchments for the entire Pine Rivers Shire. The infrastructure planning for the trunk stormwater network is based generally on land use information derived from the *PineRiversPlan* as well as the engineering investigations, modelling, forecasting and design contained within the Catchment Management Plans (CMP) and certain Local Area Drainage Plans (LADP) indentified in section 2 of this policy. Details of these investigations are contained in reports which are available as supporting and reference documents to this policy.

The studies, plan and reports mentioned in section 2 of this policy have focussed on catchment issues for rivers, streams and major drainage areas. The adopted infrastructure items are required to service or mitigate impacts from a large number of allotments or significant land areas having potential for subdivision. Accordingly, that infrastructure has been adopted as trunk infrastructure for the purpose of this policy.

The provision and timing of trunk infrastructure has been based on the ultimate development of the particular catchment envisaged in the *PineRiversPlan* and the anticipated population growth over time respectively..

Investigation of stormwater management requirements has been performed for a large area of the waterway network within the former Pine Rivers Shire. Table 3.1B details the extent of studies undertaken and applicable service catchments. The studies identify the infrastructure required to service both existing and future residents and non-residential activities as well as a methodology for the appropriate apportionment of cost based on the relative utilisation of the network by existing and future users. The requirements for land acquisition, revegetation and stream corridor rehabilitation have also been considered and a series of strategies aimed at minimising the overall cost of land acquisition have been recommended.

Trunk Infrastructure has been classified according to a hierarchy of three stormwater planning levels – Local, Creek and River. Local infrastructure services customers in a single drainage sub-catchment, Creek infrastructure services customers in individual creek catchments while River infrastructure services multiple creek or service catchments. The apportionment of cost, to be equitable, must give consideration to the different hierarchy levels and asset utilisation.

The procedures that have been applied to determine infrastructure contribution rates for each service catchment are detailed in Table 3.1A:

Table 3.1A – Infrastructure Contributions Methodology

Step	Tasks	Section
(1) Establish Service Catchments	(a) Determine DISA; and (b) Determine Service Catchments both inside and outside the DISA.	3.2 Stormwater Service Catchments
(2) Assess change in land use based on growth projections	(a) Evaluate the change to future land use based on the planning assumptions.	
(3) Assess the land use components within the river, creek and local catchments throughout the Shire as applicable to each service catchment	(a) Determine the existing land use within each catchment in hectares; and (b) Determine the future land use within each catchment in hectares based on strategic planning of future urbanisation and other land uses in hectares; and (c) Calculate the equivalent contributing area (demand units) for each catchment.	3.3 Basis for Demand Assessment 3.4 Stormwater Demand in Catchments Demand units for allocating charge

Step	Tasks	Section
(4) Identify Future Assets	<p>(a) From Catchment Management, Local Area Drainage and Detail Hydrological studies determine which future assets form part of the ultimate infrastructure network for waterway management of river, creek and local catchments. Refer Table 3.1B for a listing of those studies;</p> <p>(b) Determine the Trunk Infrastructure cost and allocate to the service catchment hierarchy. Revalue cost to 01 January 2009.</p>	<p>4.3 Stormwater Trunk Infrastructure Determination</p> <p>4.4 Stormwater Trunk Infrastructure Valuations</p> <p>4.5 Existing Stormwater Trunk Infrastructure</p> <p>4.6 Future Stormwater Plan for Infrastructure</p>
(5) Assess timing of works	<p>(a) Evaluate infrastructure timing based on projected future development needs;</p> <p>(b) Determine risk assessment based on risk profile; and</p> <p>(c) Based on future development timing, risk assessment score and funding pipeline determine the timing of works.</p>	<p>4.6 Future Stormwater Plan for Infrastructure</p>
(6) Assess the cost of infrastructure to be funded by future development	<p>(a) Calculate the net present value for each future infrastructure item by escalating the cost by an anticipated inflation index and discount back by the relevant discount rate for the network;</p> <p>(b) Calculate the infrastructure contribution rates by dividing the costs of future infrastructure in net present value by the equivalent contributing area (demand units) in the catchment. To satisfy the discounted cash flow methodology requirements of calculating the infrastructure contribution rates, existing demand is added to the value of future demand which has been indexed for anticipated fluctuations in construction costs (generally increases) and discounted for cost of capital; and</p> <p>(c) The cost of infrastructure is allocated to existing and/or future equivalent contributable areas as appropriate.</p>	<p>4.7 Stormwater Infrastructure Costs by Catchment</p> <p>Table 4.7A</p>
(7) Apportion the Trunk Infrastructure costs attributable to each land use within the river, creek and local catchments throughout the Shire as applicable to each service catchment	<p>(a) Apportion the cost and unit rate applicable for quantity infrastructure to existing and future land use based on impact of change in land use; and</p> <p>(b) Apportion the cost and unit rate applicable for quality infrastructure to existing and future land use based on impact of change in land use.</p>	<p>Schedule B Infrastructure Contribution Rates</p>

Table 3.1B – Stormwater Management Planning Documentation

Catchment Management Document	Service Catchment
South Pine River Catchment Management Plan (CMP)	South Pine River
South Pine River CMP	Coulthards Creek Brendale / Strathpine Area Conflagration Creek Eatons Hill / Warner Area Eatons Hill / Draper Area Albany Creek Sandy Creek Kingfisher Creek Wongam Creek Samford Village Area Samford Downs Area Branch Creek
Four Mile Creek CMP	Four Mile Creek
Todds Gully Hydrological Investigation	Todds Gully
One Mile Creek CMP	One Mile Creek
Cabbage Tree Creek CMP	Cabbage Tree Creek
Freshwater Creek CMP	Freshwater Creek
Saltwater Creek CMP	Saltwater Creek
Strathpine (Bells Pocket Road Area) LADP	Coulthards Creek 01 (COU01)
Strathpine Industrial Area LADP	Brendale / Strathpine Area 01 (BS01)
Petrie (Young Street Area) LADP	Petrie Area 01 (P01)
Kallangur Business Area LADP	Freshwater Creek 01 (FW01)
Duffield Road, Kallangur (Kahala Road to Freshwater Creek) LADP	Freshwater Creek 02 (FW02)
Kallangur (East of Duffield Road) LADP	Freshwater Creek 03 (FW03)
Griffin Area Catchment Management Plan	Griffin

Outline Planning

Where catchment management or other drainage planning does not exist for a particular service catchment, the applicable stormwater infrastructure costs were determined through an assessment of infrastructure requirements from a service catchment with similar characteristics which were transposed to the subject area. This approach in determining contribution rates for 'like catchments' has been performed in accordance with Infrastructure Guideline requirements, with the required infrastructure documented in the "Outline Plans" for Trunk Infrastructure. The Outline Planning process included the determination of a similar rate of infrastructure provision proportional to the total equivalent developable area and an assessment of the similarity of the resultant calculated contribution to that of the "like catchment".

Table 3.1C details catchments for which the "outline planning" process has been used. As part of Council's ongoing review process, appropriate studies will be undertaken over time to progressively encompass those service catchments and the stormwater management planning for those areas will be updated accordingly.

Council acknowledges that the infrastructure outlined for these catchments is based on a minimalist approach which will need to be supplemented in the future to meet the same desired standards of service on which the detailed studies listed in table 3.1B were based.

The methodology adopted for this policy applies an equitable distribution of trunk infrastructure cost between Council (on behalf of the entire community), and entities proposing more development. Each development proponent will only be responsible for meeting the establishment costs of that proportion of the stormwater trunk infrastructure network impacted by that entity's development proposal.

Table 3.1C – Infrastructure Cost Allocation to Areas with “Outline Planning”

Service Catchment Hierarchy	Service Catchment Area	Similar Service Catchment Area	Transposition Components
River	Pine & North Pine River	South Pine River	Quantity and Quality Infrastructure
Creek	Kedron Brook	Cabbage Tree Creek	Quantity and Quality Infrastructure
	Todds Gully	Four Mile Creek	Quality Infrastructure
	Petrie	Sandy Creek	Quantity and Quality Infrastructure
	Sideling Creek	Sandy Creek	Quantity and Quality Infrastructure
	Dayboro Village	Samford Village	Quality Infrastructure

3.2 Stormwater Service Catchments

The concept of Service Catchments allows for the cost of works within each service catchment and the corresponding infrastructure contribution rates to accurately reflect the actual impacts of development and the mitigation required. The service catchment concept is a convenient and logical vehicle for relating the infrastructure items being charged for and the development changes that they address to topographically derived boundaries.

The Shire has been divided into the following stormwater River service catchments:

- (1) South Pine River
- (2) North Pine River and Pine River
- (3) Coastal Creeks - includes all waterways external to the Pine River system which discharge to Moreton Bay (these do not attract a River Level Contribution)

The Stormwater River service catchments are further divided into a number of Creek and Local service catchments as indicated in Table 3.2A:

Table 3.2A – Stormwater Network Creek Service Catchments

River Catchment	Creek Catchment	Short Name
South Pine River	Four Mile Creek	FM
	Coulthards Creek	COU
	Brendale / Strathpine	BS
	Conflagration Creek	CC
	Eatons Hill / Warner	EW
	Eatons Hill / Draper	ED
	Albany Creek	AC
	Sandy Creek	SC
	Kingfisher Creek	KC
	Wongam Creek	WC
	Samford Village	SV
	Samford Downs	SD
	Branch Creek	BR
North Pine and Pine River	Todds Gully	TG
	One Mile Creek	OM
	Petrie	PE
	Sideling Creek	SID
	Griffin	GR
	Dayboro Village	DV
Coastal Creeks	Cabbage Tree Creek	CT
	Kedron Brook	KB
	Freshwater Creek	FC
	Saltwater Creek	SAL

Local service catchments have been identified within the Creek service catchments of Coulthards Creek, Brendale/Strathpine, Petrie and Freshwater Creek as indicated in Table 3.2B:

Table 3.2B – Stormwater Network Local Service Catchments

Creek Catchment	Local Catchment Short Name
Coulthards Creek	COU01
Brendale / Strathpine	BS01
Petrie	P01
Freshwater Creek	FW01 FW02 FW03

The extent of each of these "Stormwater Service Catchments" is shown on the maps contained in Schedule C of this Policy.

3.3 Basis for Demand Assessment

Both the quantity and quality of stormwater discharged from a property as a result of a rainfall event are directly related to variables such as the extent of impervious area and the nature of the activity being conducted on the land. Since the type, nature and intensity of development is governed by the zone of the land, it is reasonable to adopt land zone under the planning scheme as a reliable technique for the determination of stormwater flows (quantity assessment) and pollutant discharges (quality assessment) from the land. Such an approach has been used for establishing demand under this policy.

3.3.1 Stormwater Quantity Assessment

Assessment of rainfall runoff and stream flow flood level has been performed by software modelling of the various processes using industry accepted engineering design practice and, where possible, calibration to measured or known conditions. The assessments have been undertaken using procedures that have regard to the nature and extent of land zones and the hydrologic impact of these uses which are consistent with the intent of each of those zones under *PineRiversPlan*. Table 3.3A details the various runoff coefficients and contribution factors for the applicable land zones.

The runoff coefficients used reflect the impervious area generally associated with that specific zone. The contribution factors for the calculation of the infrastructure contribution rate for Stormwater Quantity infrastructure have been based upon the ratio between the C100 Runoff Coefficient assigned to each zone or land use and that assigned to undeveloped land.

Table 3.3A – Runoff Coefficient Assumptions and Contributions Factors

LAND ZONE	Runoff Coefficient (C100)	Contribution Factor (CF _{QTY})/Ha
Central Business	1	0.19
Commercial	1	0.19
Extractive Industry	0.89	0.06
General Industry	1	0.19
Local Business	1	0.19
Neighbourhood Facilities	1	0.19
Park and Open Space	0.84	0.00
Park Residential	0.89	0.06
Residential A (lots $\geq 600m^2$) and Future Urban	0.95	0.13
Residential A (lots $< 600m^2$)	0.97	0.15
Residential B	1	0.19
Rural (lots no less than 16 Ha)	0.84	0.00
Rural Residential and Rural other than above	0.89	0.06
Service Industry	1	0.19
Special Residential (Urban)	0.95	0.13
Special Residential (Non-Urban)	0.89	0.06
Sports and Recreation	0.84	0.00
Home Industry	1	0.19
Urban Village	1	0.19
Village Centre	1	0.19

Stormwater Quantity infrastructure elements have been assessed on the basis of requirements to mitigate the impact of development to achieve Council's adopted desired standard of service.

3.3.2 Stormwater Quality Assessment

Assessment of pollutant impact has been undertaken by software modelling of the various catchments and the waterway processes using industry accepted engineering design practice and, where feasible, calibration to measured or known conditions. The assessments have been undertaken using procedures which have regard to the nature and extent of land zones within the catchment and the calculated quantity of pollutant export for land uses which are consistent with the intent of each of those zones under *PineRiversPlan*.

The pollutant export loading rates have been determined utilising Council's adopted design standards in regard to the specific pollutant elements of Total Nitrogen (TN), Total Phosphorous (TP) and Suspended Solids (SS). The contribution factors for the calculation of the infrastructure contribution rate for Stormwater Quality management infrastructure have been based on the ratio between the average of the pollutant export loading rates assigned to each zone or land use and that assigned to undeveloped land.

Stormwater Quality infrastructure elements have been evaluated on the basis of necessary works required to mitigate the adverse impact of development to achieve Council's adopted desired standard of service in relation to water quality issues.

Table 3.3B lists the annual pollutant export loads and contribution (or demand) factors for the applicable land zones.

Table 3.3B – Pollutant Impact Assumptions and Contribution Factors

Land Zone	Annual Pollutant Export (Load – kg/ha)			Contribution Factor CF _{QAL} /Ha
	TP	TN	SS	
Central Business	2.3	10.7	1150	1.90
Commercial	2.1	10.6	1100	1.74
Extractive Industry	0.7	7.4	1050	0.87
General Industry	2.3	10.7	1150	1.90
Local Business	2.1	10.6	1100	1.74
Neighbourhood Facilities	2.0	10.5	1050	1.63
Park and Open Space	0.8	7.8	380	0.17
Park Residential	1.1	9.0	570	0.58
Residential A (lots ≥600m ²) and Future Urban	1.6	10.3	950	1.32
Residential A (lots <600m ²)	1.9	10.4	1000	1.52
Residential B	2.0	10.5	1050	1.63
Rural (lots no less than 16ha)	0.7	7.4	290	0.00
Rural Residential and Rural other than above	0.9	8.0	400	0.25
Service Industry	2.1	10.6	1100	1.74
Special Residential (Urban)	1.6	10.3	950	1.32
Special Residential (Non-Urban)	1.1	9.0	570	0.58
Sports and Recreation	0.9	8.5	750	0.67
Home Industry	1.6	10.3	950	1.32
Urban Village	2.3	10.7	1150	1.90
Village Centre	2.3	10.7	1150	1.90

3.4 Stormwater Demand in Catchments (Demand Units)

Stormwater infrastructure requirements have been determined for 'ultimate' development of the former Shire under the current Planning Scheme. Table 3.4A shows the Equivalent Contributing Areas (ECA), or Demand Units - ECAqty and ECAqal - for existing and anticipated future activity within the Stormwater Service Catchments. The Equivalent Contributing Areas are calculated by multiplying the area of all land of a given Planning Scheme Zone in a catchment by the contribution factor for the zone, and then aggregating the results for the catchment.

Table 3.4A – Equivalent Contributing Existing and Future Land Use Areas

Catchment	ECAqal Existing	ECAqal Future	ECAqal Total	Change in ECAqal	ECAqty Existing	ECAqty Future	ECAqty Total	Change in ECAqty
Albany Creek	194.21	10.11	204.32	5.2%	19.27	1.00	20.27	5.2%
Branch Creek	100.13	119.41	219.54	119.3%	14.36	18.15	32.50	126.4%
Brendale / Strathpine	199.22	88.25	287.48	44.3%	20.57	8.36	28.93	40.6%
Cabbage Tree Creek	506.76	94.95	601.71	18.7%	50.63	9.67	60.30	19.1%
Conflagration Creek	438.64	200.51	639.15	45.7%	43.20	20.38	63.59	47.2%
Coulthards Creek	300.61	85.79	386.39	28.5%	28.31	8.87	37.18	31.3%
Dayboro Village	164.18	89.50	253.68	54.5%	21.42	10.39	31.82	48.5%
Eatons Hill / Draper	399.91	90.54	490.45	22.6%	43.40	9.13	52.53	21.0%
Eatons Hill / Warner	299.61	17.19	316.80	5.7%	29.80	1.73	31.53	5.8%
Four Mile Creek	771.54	235.00	1006.54	30.5%	78.75	23.22	101.97	29.5%
Freshwater Creek	1302.12	597.21	1899.33	45.9%	131.08	61.14	192.22	46.6%
Griffin	245.62	258.29	503.91	105.2%	24.77	26.08	50.85	105.3%
Kedron	581.04	0.00	581.04	0.0%	57.73	0.00	57.73	0.0%
Kingfisher Creek	228.55	11.38	239.93	5.0%	22.51	1.12	23.63	5.0%
One Mile Creek	512.02	111.88	623.89	21.9%	55.51	14.07	69.59	25.4%
Petrie	715.18	29.10	744.28	4.1%	71.90	2.57	74.48	3.6%
Saltwater Creek	720.84	1454.20	2175.04	201.7%	72.37	147.95	220.31	204.4%
Samford Downs	328.62	72.26	400.88	22.0%	39.49	10.69	50.18	27.1%
Samford Village	73.97	9.53	83.50	12.9%	8.14	1.65	9.80	20.3%
Sandy Creek	330.34	17.03	347.36	5.2%	33.00	1.74	34.73	5.3%
Sideling Creek	63.18	0.28	63.45	0.4%	8.67	0.03	8.70	0.3%
Todds Gully	501.71	139.63	641.34	27.8%	50.92	13.89	64.80	27.3%
Wongam Creek	210.54	100.85	311.39	47.9%	23.54	11.21	34.75	47.6%
Brendale Strathpine BS01	3249.41	633.17	3882.57	19.5%	368.92	67.88	436.80	18.4%
Coulthards CH01	5024.60	1617.05	6641.65	32.2%	617.52	244.58	862.10	39.6%
Freshwater FW01	74.21	45.96	120.17	61.9%	7.69	4.17	11.86	54.2%
Freshwater FW02	23.58	0.00	23.58	0.0%	2.40	0.00	2.40	0.0%
Freshwater FW03	76.11	8.70	84.81	11.4%	7.94	0.86	8.79	10.8%
Petrie P01	18.45	11.26	29.72	61.0%	1.82	1.11	2.93	60.9%
North Pine	41.13	2.01	43.15	4.9%	4.26	0.22	4.48	5.2%
South Pine	40.19	0.00	40.19	0.0%	4.34	0.00	4.34	0.0%

The existing land areas used were derived from an assessment of land use as it existed on 30 June 2006. This included the use of GIS and current aerial photography. The future land areas were derived by subtracting existing land area from total area at "ultimate" development of the Shire.

4 Stormwater Plan for Trunk Infrastructure

4.1 Stormwater Trunk Infrastructure Network

For the purposes of this policy, stormwater infrastructure items have been considered in terms of River, Creek and Local Area levels of planning. Infrastructure is further considered within each service catchment by function in terms of stormwater quantity or quality. Only those infrastructure items indicated on the maps in Schedule D are deemed to be Trunk Infrastructure for the purpose of planning and funding of the Trunk Stormwater Network.

River infrastructure components include the following mapped items along river corridors:

- (1) waterway corridor revegetation and rehabilitation of the river system together with any necessary ancillary infrastructure and works;
- (2) land needed for stormwater conveyance purposes; and
- (3) roadway crossing upgrades over waterways for major transport corridors including bridges and culverts.

Creek infrastructure components include the following mapped items along creek corridors:

- (1) facilities for conveyance and detention of stormwater including any necessary land component;
- (2) works for stormwater treatment including gross pollutant traps, trash racks, sedimentation basins, wetlands and gully trap filters;
- (3) waterway corridor revegetation and rehabilitation of creeks together with any necessary ancillary works; and
- (4) roadway/bikeway crossing upgrades over waterways for minor local streets including bridges and culverts.

Local Area infrastructure components include underground piped drainage and overland flow paths together with any necessary land acquisition.

4.2 Stormwater Trunk Infrastructure Items

The terms/titles listed in table 4.2A are used to describe specific components and actions comprising stormwater trunk infrastructure management. A complete definition for each of those terms appears in PSP21 – Administration Policy. These Trunk Infrastructure items would ordinarily be constructed by Council using Infrastructure Contributions or by a developer where an agreed amount would be credited as 'works in lieu' of contributions payment. In order to qualify for an infrastructure credit, the developer would be required to install or construct an agreed infrastructure item that conforms with the performance criteria detailed in the respective Catchment Management Plan (CMP), this policy and/or Council's Planning Scheme Policy PSP28 - Appendix A - Design Manual. Within the various infrastructure listings, shortened titles are used for some of the infrastructure items as indicated in the Table 4.2A.

Table 4.2A – Stormwater Drainage Infrastructure Descriptions

Infrastructure Title	Short Title
Swale	
Detention Basin	
Gross Pollutant Traps	GPT
Weir Type Sediment and Trash Trap	Sediment Trap
Trash Rack	
Sedimentation Basin	
Constructed Wetland	Wetland
Revegetation	
Rehabilitation	
Stream Bank Protection or Stabilisation	Bank Stabilisation
Drainage Corridor - Easement	Corridor - Easement
Drainage Corridor – Reserve	Corridor – Reserve
Riparian Corridor Management Area – Minor	RCMA - Minor
Riparian Corridor Management Area – Major	RCMA - Major

Infrastructure Title	Short Title
Road Crossing Upgrade	Crossing Upgrade
Open Channel Work	
Pipe Drainage System	Pipe Drainage
Bioretention Basin	

4.3 Stormwater Trunk Infrastructure Determination

Trunk Infrastructure provision has been informed by the various waterway planning studies and reports carried out by, or on behalf of, Council as well as the “outline planning process” mentioned in section 3.1 of this policy. These studies and planning processes have identified the location and nature of the Stormwater Trunk Infrastructure networks for their respective service catchments.

In regard to the timing of the provision of the infrastructure, it should be noted that the infrastructure listed provides for ultimate development of the former Shire in accordance with the planning assumptions inherent to the *PineRiversPlan*. Due to its very nature, some infrastructure is identified outside the DISA. Also, particularly in the case of stormwater quality infrastructure, some infrastructure has been located external to the DISA for the benefit of development within the DISA where the supporting catchment management planning has identified an overall cost effectiveness and enhanced environmental outcomes compared to concentrating the provision of the infrastructure within the DISA.

While a particular development may have an immediate impact on some Local Area Drainage infrastructure, the impact of development on infrastructure at Creek and River is expected to be more gradual. This affords Council greater flexibility in staging the delivery of the trunk stormwater network. It is therefore not considered imperative that Council deliver any identified infrastructure in the precise year nominated in tables 4.6A to 4.6E. Nor is it necessary for Council to complete all of one project in the same financial year. However, the delivery of the infrastructure is related to maintaining Council’s desired standard of service. This is a function of the anticipated impact of development on stormwater quantity and quality in the various service catchments.

Trunk Infrastructure provision identified in this policy has therefore been based on an assessment of the change in land use consistent with the rate of population growth within each service catchment. Stormwater infrastructure requirements are aligned with land use and land use change, and the resultant change in runoff and pollutant export.

Stormwater infrastructure listed in the capital works program has been prioritised on the basis of a multi-criteria ranking system defined in Council’s adopted stormwater capital works prioritisation methodology. The methodology considers a range of factors and results in the determination of the indicative timing for the infrastructure provision. Elements affecting the overall timing for infrastructure include:

- (1) risk of flooding or other adverse impact;
- (2) possible significant or otherwise unacceptable consequences;
- (3) the timing or sequence of development expected within the catchment;
- (4) population growth; and
- (5) availability of funding both through the infrastructure contributions mechanism, infrastructure agreements and Council’s other funding sources.

4.4 Stormwater Trunk Infrastructure Valuations

Future Stormwater Management Infrastructure requirements and associated costs have been based on the recommendations of existing stormwater management studies or have been identified through an “Outline Planning” process.

Infrastructure Cost Determination

(1) Infrastructure Item Costs

An infrastructure costing review was undertaken by Council in 2009. All items were reassessed and the costs of most items of infrastructure were recalculated from first principles. However, for a few items, costs were recalculated to 01 January 2009 using the industry accepted indexation values appropriate to that type of infrastructure.

(2) Land Acquisition

The areas identified for land acquisition were assessed and valued by an independent land valuer in June 2006. The costs have subsequently been converted to 01 January 2009 values by applying the Land Value Index for the former Pine Rivers Shire.

4.5 Existing Stormwater Trunk Infrastructure

Infrastructure Contributions have been determined for future infrastructure only. No valuation or accounting of existing infrastructure has been included in this policy. The Trunk Infrastructure requirements determined for this policy are to address the impacts of future development and augmentations in the existing network to meet the DSS. Note that trunk infrastructure items required for both purposes have been apportioned to both existing and future development in order to ensure equitable cost allocation. Existing network capacity has been assessed to provide only for existing development and no existing spare capacity is available to cater for future development.

4.6 Future Stormwater Plan for Trunk Infrastructure

The maps in Schedule D show the extent of existing and future stormwater trunk infrastructure on which this policy and its infrastructure contributions regime is based, while tables 4.6A to 4.6E provide a detailed listing of each of the various components of future infrastructure, its projected construction date, and its nominal present value at 1 January 2009.

Table 4.6A– River Quality Stormwater Works

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70415	NPR_REH_10	North Pine River	Rehabilitation	\$2,333,774	2013
PIPSQ70416	NPR_REH_7	North Pine River	Rehabilitation	\$1,660,239	2014
PIPSQ70417	NPR_REH_8	North Pine River	Rehabilitation	\$1,871,860	2014
PIPSQ70418	NPR_REH_9	North Pine River	Rehabilitation	\$620,995	2014
PIPSQ70419	NPR_REV_1	North Pine River	Revegetation	\$4,215,302	2009
PIPSQ70420	NPR_REV_10	North Pine River	Revegetation	\$1,982,733	2023
PIPSQ70421	NPR_REV_11	North Pine River	Revegetation	\$2,284,006	2025
PIPSQ70422	NPR_REV_2	North Pine River	Revegetation	\$3,659,243	2009
PIPSQ70423	NPR_REV_3	North Pine River	Revegetation	\$5,979,317	2012
PIPSQ70424	NPR_REV_4	North Pine River	Revegetation	\$5,875,129	2008
PIPSQ70425	NPR_REV_5	North Pine River	Revegetation	\$3,220,675	2009
PIPSQ70426	NPR_REV_6	North Pine River	Revegetation	\$5,579,890	2012
PIPSQ70427	NPR_REV_7	North Pine River	Revegetation	\$1,012,202	2025
PIPSQ70428	NPR_REV_8	North Pine River	Revegetation	\$2,825,792	2026
PIPSQ70429	NPR_REV_9	North Pine River	Revegetation	\$4,187,557	2026
PIPSQ70430	NPR_RMAJ_2	North Pine River	RCMA Major	\$160,801	2014
PIPSQ70431	NPR_RMAJ_3	North Pine River	RCMA Major	\$357,641	2018
PIPSQ70432	NPR_RMAJ_4	North Pine River	RCMA Major	\$765,636	2018
PIPSQ70433	NPR_RMAJ_5	North Pine River	RCMA Major	\$298,173	2019
PIPSQ70434	NPR_RMAJ_6	North Pine River	RCMA Major	\$560,089	2020
PIPSQ70435	NPR_RMAJ_7	North Pine River	RCMA Major	\$1,203,996	2020
PIPSQ70637	SPR_REH_10	South Pine River	Rehabilitation	\$1,784,286	2011
PIPSQ70638	SPR_REH_11	South Pine River	Rehabilitation	\$7,574,513	2011
PIPSQ70639	SPR_REH_12	South Pine River	Rehabilitation	\$11,136,305	2024
PIPSQ70640	SPR_REH_13	South Pine River	Rehabilitation	\$6,039,273	2025
PIPSQ70641	SPR_REH_17	South Pine River	Rehabilitation	\$1,011,410	2019
PIPSQ70642	SPR_REH_18	South Pine River	Rehabilitation	\$289,069	2019
PIPSQ70643	SPR_REH_19	South Pine River	Rehabilitation	\$4,027,012	2019
PIPSQ70644	SPR_REH_20	South Pine River	Rehabilitation	\$2,130,139	2019
PIPSQ70645	SPR_REH_21	South Pine River	Rehabilitation	\$4,833,024	2019
PIPSQ70646	SPR_REH_22	South Pine River	Rehabilitation	\$6,026,552	2011
PIPSQ70647	SPR_REH_23	South Pine River	Rehabilitation	\$4,946,274	2011
PIPSQ70648	SPR_REH_24	South Pine River	Rehabilitation	\$4,240,434	2012
PIPSQ70649	SPR_REH_25	South Pine River	Rehabilitation	\$5,062,134	2012
PIPSQ70650	SPR_REH_26	South Pine River	Rehabilitation	\$4,158,339	2011
PIPSQ70651	SPR_REH_27	South Pine River	Rehabilitation	\$9,366,212	2011
PIPSQ70652	SPR_REH_28	South Pine River	Rehabilitation	\$3,424,443	2012
PIPSQ70653	SPR_REH_29	South Pine River	Rehabilitation	\$1,399,905	2029
PIPSQ70654	SPR_REH_30	South Pine River	Rehabilitation	\$2,401,108	2012
PIPSQ70655	SPR_REH_5	South Pine River	Rehabilitation	\$1,849,558	2025
PIPSQ70656	SPR_REH_6	South Pine River	Rehabilitation	\$5,265,598	2026
PIPSQ70657	SPR_REH_7	South Pine River	Rehabilitation	\$3,773,214	2020

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70658	SPR_REH_8	South Pine River	Rehabilitation	\$720,672	2020
PIPSQ70659	SPR_REH_9	South Pine River	Rehabilitation	\$2,807,317	2012
PIPSQ70660	SPR_REV_1	South Pine River	Revegetation	\$2,733,222	2029
PIPSQ70661	SPR_REV_10	South Pine River	Revegetation	\$8,567,707	2014
PIPSQ70662	SPR_REV_11	South Pine River	Revegetation	\$401,093	2014
PIPSQ70663	SPR_REV_12	South Pine River	Revegetation	\$513,228	2025
PIPSQ70664	SPR_REV_13	South Pine River	Revegetation	\$2,108,447	2025
PIPSQ70665	SPR_REV_17	South Pine River	Revegetation	\$3,008,426	2022
PIPSQ70666	SPR_REV_2	South Pine River	Revegetation	\$2,170,085	2029
PIPSQ70667	SPR_REV_20	South Pine River	Revegetation	\$3,859,711	2021
PIPSQ70668	SPR_REV_21	South Pine River	Revegetation	\$1,769,055	2022
PIPSQ70669	SPR_REV_24	South Pine River	Revegetation	\$3,855,269	2008
PIPSQ70670	SPR_REV_25	South Pine River	Revegetation	\$3,976,846	2008
PIPSQ70671	SPR_REV_27	South Pine River	Revegetation	\$1,081,415	2014
PIPSQ70672	SPR_REV_28	South Pine River	Revegetation	\$735,083	2014
PIPSQ70673	SPR_REV_3	South Pine River	Revegetation	\$2,251,825	2029
PIPSQ70674	SPR_REV_4	South Pine River	Revegetation	\$2,153,864	2029
PIPSQ70675	SPR_REV_5	South Pine River	Revegetation	\$311,828	2029
PIPSQ70676	SPR_REV_7	South Pine River	Revegetation	\$5,830,269	2023
PIPSQ70677	SPR_REV_8	South Pine River	Revegetation	\$7,453,919	2024
PIPSQ70678	SPR_REV_9	South Pine River	Revegetation	\$13,947,136	2016
PIPSQ70679	SPR_RMAJ_1	South Pine River	RCMA Major	\$405,576	2025
PIPSQ70680	SPR_RMAJ_10	South Pine River	RCMA Major	\$266,753	2012
PIPSQ70681	SPR_RMAJ_11	South Pine River	RCMA Major	\$840,457	2013
PIPSQ70682	SPR_RMAJ_13	South Pine River	RCMA Major	\$1,326,184	2025
PIPSQ70683	SPR_RMAJ_17	South Pine River	RCMA Major	\$137,473	2020
PIPSQ70684	SPR_RMAJ_18	South Pine River	RCMA Major	\$38,737	2020
PIPSQ70685	SPR_RMAJ_19	South Pine River	RCMA Major	\$626,301	2020
PIPSQ70686	SPR_RMAJ_2	South Pine River	RCMA Major	\$194,766	2026
PIPSQ70687	SPR_RMAJ_20	South Pine River	RCMA Major	\$17,133	2020
PIPSQ70688	SPR_RMAJ_21	South Pine River	RCMA Major	\$124,704	2020
PIPSQ70691	SPR_RMAJ_24	South Pine River	RCMA Major	\$199,637	2012
PIPSQ70692	SPR_RMAJ_25	South Pine River	RCMA Major	\$36,960	2012
PIPSQ70694	SPR_RMAJ_27	South Pine River	RCMA Major	\$296,501	2013
PIPSQ70695	SPR_RMAJ_28	South Pine River	RCMA Major	\$208,899	2013
PIPSQ70696	SPR_RMAJ_29	South Pine River	RCMA Major	\$254,390	2029
PIPSQ70697	SPR_RMAJ_3	South Pine River	RCMA Major	\$599,442	2026
PIPSQ70698	SPR_RMAJ_30	South Pine River	RCMA Major	\$53,689	2007
PIPSQ70699	SPR_RMAJ_4	South Pine River	RCMA Major	\$410,391	2026
PIPSQ70701	SPR_RMAJ_6	South Pine River	RCMA Major	\$2,829	2026
PIPSQ70702	SPR_RMAJ_7	South Pine River	RCMA Major	\$695,685	2021
PIPSQ70703	SPR_RMAJ_8	South Pine River	RCMA Major	\$213,190	2021
PIPSQ70704	SPR_RMAJ_9	South Pine River	RCMA Major	\$339,917	2014
PIPSQ70705	SPR_RMIN_1	South Pine River	RCMA Minor	\$379,527	2025
PIPSQ70706	SPR_RMIN_10	South Pine River	RCMA Minor	\$225,742	2008
PIPSQ70707	SPR_RMIN_11	South Pine River	RCMA Minor	\$91,906	2008
PIPSQ70708	SPR_RMIN_12	South Pine River	RCMA Minor	\$1,429,323	2024
PIPSQ70709	SPR_RMIN_13	South Pine River	RCMA Minor	\$363,206	2024
PIPSQ70710	SPR_RMIN_17	South Pine River	RCMA Minor	\$190,378	2016
PIPSQ70711	SPR_RMIN_19	South Pine River	RCMA Minor	\$77,268	2016
PIPSQ70712	SPR_RMIN_20	South Pine River	RCMA Minor	\$1,023,857	2018
PIPSQ70713	SPR_RMIN_21	South Pine River	RCMA Minor	\$590,633	2018
PIPSQ70714	SPR_RMIN_22	South Pine River	RCMA Minor	\$399,880	2009
PIPSQ70715	SPR_RMIN_23	South Pine River	RCMA Minor	\$243,702	2009
PIPSQ70716	SPR_RMIN_24	South Pine River	RCMA Minor	\$524,228	2009
PIPSQ70717	SPR_RMIN_25	South Pine River	RCMA Minor	\$445,253	2011
PIPSQ70718	SPR_RMIN_26	South Pine River	RCMA Minor	\$50,202	2008
PIPSQ70719	SPR_RMIN_27	South Pine River	RCMA Minor	\$314,226	2009
PIPSQ70720	SPR_RMIN_28	South Pine River	RCMA Minor	\$49,206	2009
PIPSQ70721	SPR_RMIN_5	South Pine River	RCMA Minor	\$73,821	2025
PIPSQ70722	SPR_RMIN_6	South Pine River	RCMA Minor	\$365,795	2025
PIPSQ70723	SPR_RMIN_7	South Pine River	RCMA Minor	\$560,697	2019
PIPSQ70724	SPR_RMIN_8	South Pine River	RCMA Minor	\$372,203	2019
PIPSQ70725	SPR_RMIN_9	South Pine River	RCMA Minor	\$329,317	2011
				\$227,040,250	

Table 4.6B– River Quantity Stormwater Works

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSD70049	NPR_CU_1	North Pine River	Crossing Upgrade	\$ 953,581	2009
PIPSD70050	NPR_CU_2	North Pine River	Crossing Upgrade	\$ 953,581	2009
PIPSD70051	NPR_CU_3	North Pine River	Crossing Upgrade	\$ 937,992	2011
PIPSD70052	NPR_CU_4	North Pine River	Crossing Upgrade	\$ 945,755	2010
PIPSD70053	NPR_RES_10	North Pine River	Corridor - Reserve	\$ 869,204	2018
PIPSD70054	NPR_RES_11	North Pine River	Corridor - Reserve	\$ 1,433,201	2027
PIPSD70086	SPR_CU_1	South Pine River	Crossing Upgrade	\$ 71,809	2024
PIPSD70087	SPR_CU_2	South Pine River	Crossing Upgrade	\$ 394,316	2021
PIPSD70088	SPR_CU_3	South Pine River	Crossing Upgrade	\$ 361,188	2021
PIPSD70089	SPR_CU_4	South Pine River	Crossing Upgrade	\$ 456,360	2023
PIPSD70090	SPR_CU_5	South Pine River	Crossing Upgrade	\$ 122,646	2021
PIPSD70091	SPR_CU_6	South Pine River	Crossing Upgrade	\$ 965,659	2014
PIPSD70092	SPR_CU_7	South Pine River	Crossing Upgrade	\$ 577,839	2024
PIPSD70093	SPR_CU_8	South Pine River	Crossing Upgrade	\$ 479,581	2016
PIPSD70094	SPR_CU_9	South Pine River	Crossing Upgrade	\$ 2,502,027	2020
PIPSD70096	SPR_RES_4	South Pine River	Corridor - Reserve	\$ 159,260	2027
PIPSD70098	SPR_RES_6	South Pine River	Corridor - Reserve	\$ 19,743	2011
PIPSD70100	SPR_RES_9	South Pine River	Corridor - Reserve	\$ 24,684	2009
				\$ 12,228,427	

Table 4.6C– Creek Quality Stormwater Works

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70001	AC_GPT_1	Albany Creek	GPT	\$ 474,022	2023
PIPSQ70002	AC_GPT_2	Albany Creek	GPT	\$ 136,701	2024
PIPSQ70003	AC_GPT_3	Albany Creek	GPT	\$ 71,171	2025
PIPSQ70004	AC_GPT_4	Albany Creek	GPT	\$ 462,445	2026
PIPSQ70005	AC_REH_1	Albany Creek	Rehabilitation	\$ 1,207,257	2012
PIPSQ70006	AC_REH_2	Albany Creek	Rehabilitation	\$ 1,743,910	2021
PIPSQ70007	AC_REH_3	Albany Creek	Rehabilitation	\$ 1,076,936	2029
PIPSQ70008	AC_RMIN_2	Albany Creek	RCMA Minor	\$ 34,186	2010
PIPSQ70009	AC_ST_1	Albany Creek	Sediment Trap	\$ 30,167	2027
PIPSQ70010	AC_ST_2	Albany Creek	Sediment Trap	\$ 30,167	2027
PIPSQ70011	AC_ST_3	Albany Creek	Sediment Trap	\$ 30,167	2027
PIPSQ70012	AC_ST_4	Albany Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70013	AC_ST_5	Albany Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70014	AC_ST_6	Albany Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70015	AC_ST_7	Albany Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70016	AC_ST_8	Albany Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70017	AC_ST_9	Albany Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70018	AC_TR_1	Albany Creek	Trash Rack	\$ 10,139	2026
PIPSQ70019	AC_TR_2	Albany Creek	Trash Rack	\$ 10,139	2026
PIPSQ70020	AC_TR_3	Albany Creek	Trash Rack	\$ 10,139	2026
PIPSQ70021	AC_TR_4	Albany Creek	Trash Rack	\$ 10,139	2026
PIPSQ70022	AC_TR_5	Albany Creek	Trash Rack	\$ 10,139	2026
PIPSQ70023	AC_TR_6	Albany Creek	Trash Rack	\$ 9,973	2028
PIPSQ70024	AC_TR_7	Albany Creek	Trash Rack	\$ 9,973	2028
PIPSQ70025	AC_TR_8	Albany Creek	Trash Rack	\$ 9,973	2028
PIPSQ70026	AC_WET_1	Albany Creek	Wetland	\$ 2,743,692	2009
PIPSQ70027	AC_WET_2	Albany Creek	Wetland	\$ 1,090,950	2016
PIPSQ70028	AC_WET_3	Albany Creek	Wetland	\$ 1,272,494	2023
PIPSQ70029	BC_REH_1	Branch Creek	Rehabilitation	\$ 2,860,908	2008
PIPSQ70030	BC_REH_2	Branch Creek	Rehabilitation	\$ 1,278,535	2010
PIPSQ70031	BC_REV_1	Branch Creek	Revegetation	\$ 4,030,959	2017
PIPSQ70032	BC_REV_2	Branch Creek	Revegetation	\$ 6,205,530	2027
PIPSQ70033	BC_RMIN_1	Branch Creek	RCMA Minor	\$ 52,171	2009
PIPSQ70034	BC_RMIN_2	Branch Creek	RCMA Minor	\$ 96,505	2011
PIPSQ70035	BS_GPT_1	Brendale/Strathpine	GPT	\$ 536,400	2008
PIPSQ70036	BS_GPT_2	Brendale/Strathpine	GPT	\$ 76,651	2016
PIPSQ70037	BS_REV_1	Brendale/Strathpine	Revegetation	\$ 715,365	2027
PIPSQ70038	BS_ST_1	Brendale/Strathpine	Sediment Trap	\$ 32,223	2019
PIPSQ70039	BS_ST_2	Brendale/Strathpine	Sediment Trap	\$ 31,696	2021
PIPSQ70040	BS_ST_3	Brendale/Strathpine	Sediment Trap	\$ 30,668	2025
PIPSQ70041	BS_ST_4	Brendale/Strathpine	Sediment Trap	\$ 30,167	2027
PIPSQ70042	BS_ST_5	Brendale/Strathpine	Sediment Trap	\$ 29,919	2028
PIPSQ70043	BS_TR_2	Brendale/Strathpine	Trash Rack	\$ 10,920	2017

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70044	BS_TR_3	Brendale/Strathpine	Trash Rack	\$ 10,920	2017
PIPSQ70045	BS_WET_1	Brendale/Strathpine	Wetland	\$ 731,683	2011
PIPSQ70046	CC_GPT_1	Conflagration Creek	GPT	\$ 466,272	2025
PIPSQ70047	CC_GPT_2	Conflagration Creek	GPT	\$ 466,272	2025
PIPSQ70048	CC_GPT_3	Conflagration Creek	GPT	\$ 318,079	2027
PIPSQ70049	CC_GPT_4	Conflagration Creek	GPT	\$ 133,362	2027
PIPSQ70050	CC_GPT_5	Conflagration Creek	GPT	\$ 458,650	2027
PIPSQ70051	CC_REH_1	Conflagration Creek	Rehabilitation	\$ 2,737,071	2027
PIPSQ70052	CC_RMIN_1	Conflagration Creek	RCMA Minor	\$ 1,093,290	2010
PIPSQ70053	CC_ST_1	Conflagration Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70054	CC_TR_1	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70055	CC_TR_2	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70056	CC_TR_3	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70057	CC_TR_4	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70058	CC_TR_5	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70059	CC_TR_6	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70060	CC_TR_7	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70061	CC_TR_8	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70062	CC_TR_9	Conflagration Creek	Trash Rack	\$ 9,973	2028
PIPSQ70063	CC_WET_1	Conflagration Creek	Wetland	\$ 3,315,389	2024
PIPSQ70064	COU_GPT_1	Coulthards Creek	GPT	\$ 531,997	2009
PIPSQ70065	COU_GPT_2	Coulthards Creek	GPT	\$ 19,667	2009
PIPSQ70066	COU_GPT_3	Coulthards Creek	GPT	\$ 19,029	2013
PIPSQ70067	COU_GPT_4	Coulthards Creek	GPT	\$ 523,300	2011
PIPSQ70068	COU_GPT_5	Coulthards Creek	GPT	\$ 356,982	2013
PIPSQ70069	COU_GPT_6	Coulthards Creek	GPT	\$ 536,400	2008
PIPSQ70070	COU_GPT_7	Coulthards Creek	GPT	\$ 113,993	2009
PIPSQ70071	COU_REH_1	Coulthards Creek	Rehabilitation	\$ 599,180	2027
PIPSQ70072	COU_ST_1	Coulthards Creek	Sediment Trap	\$ 33,857	2013
PIPSQ70073	COU_ST_2	Coulthards Creek	Sediment Trap	\$ 33,857	2013
PIPSQ70074	COU_ST_3	Coulthards Creek	Sediment Trap	\$ 33,857	2013
PIPSQ70075	COU_ST_4	Coulthards Creek	Sediment Trap	\$ 33,857	2013
PIPSQ70076	COU_ST_5	Coulthards Creek	Sediment Trap	\$ 33,857	2013
PIPSQ70077	COU_ST_6	Coulthards Creek	Sediment Trap	\$ 33,857	2013
PIPSQ70078	COU_TR_1	Coulthards Creek	Trash Rack	\$ 11,664	2009
PIPSQ70079	COU_TR_10	Coulthards Creek	Trash Rack	\$ 11,286	2013
PIPSQ70080	COU_TR_11	Coulthards Creek	Trash Rack	\$ 11,286	2013
PIPSQ70081	COU_TR_2	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70082	COU_TR_3	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70083	COU_TR_4	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70084	COU_TR_5	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70085	COU_TR_6	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70086	COU_TR_7	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70087	COU_TR_8	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70088	COU_TR_9	Coulthards Creek	Trash Rack	\$ 11,473	2011
PIPSQ70089	COU_WET_1	Coulthards Creek	Wetland	\$ 1,819,270	2027
PIPSQ70090	CT_GPT_1	Cabbage Tree Creek	GPT	\$ 113,057	2010
PIPSQ70091	CT_GPT_10	Cabbage Tree Creek	GPT	\$ 466,272	2025
PIPSQ70092	CT_GPT_2	Cabbage Tree Creek	GPT	\$ 58,637	2013
PIPSQ70093	CT_GPT_3	Cabbage Tree Creek	GPT	\$ 26,045	2010
PIPSQ70094	CT_GPT_4	Cabbage Tree Creek	GPT	\$ 514,745	2013
PIPSQ70095	CT_GPT_5	Cabbage Tree Creek	GPT	\$ 510,520	2014
PIPSQ70096	CT_GPT_6	Cabbage Tree Creek	GPT	\$ 24,789	2016
PIPSQ70097	CT_GPT_7	Cabbage Tree Creek	GPT	\$ 55,808	2019
PIPSQ70098	CT_GPT_8	Cabbage Tree Creek	GPT	\$ 17,963	2020
PIPSQ70099	CT_GPT_9	Cabbage Tree Creek	GPT	\$ 137,832	2023
PIPSQ70100	CT_REH_1	Cabbage Tree Creek	Rehabilitation	\$ 5,623,813	2022
PIPSQ70101	CT_REV_1	Cabbage Tree Creek	Revegetation	\$ 1,715,222	2029
PIPSQ70102	CT_SB_1	Cabbage Tree Creek	Sedimentation Basin	\$ 2,714,982	2029
PIPSQ70103	DV_GPT_1	Dayboro Village	GPT	\$ 368,947	2009
PIPSQ70104	DV_GPT_10	Dayboro Village	GPT	\$ 59,612	2011
PIPSQ70105	DV_GPT_2	Dayboro Village	GPT	\$ 61,104	2008
PIPSQ70106	DV_GPT_3	Dayboro Village	GPT	\$ 113,057	2010
PIPSQ70107	DV_GPT_4	Dayboro Village	GPT	\$ 149,673	2013
PIPSQ70108	DV_GPT_5	Dayboro Village	GPT	\$ 148,445	2014
PIPSQ70109	DV_GPT_6	Dayboro Village	GPT	\$ 76,651	2016
PIPSQ70110	DV_GPT_7	Dayboro Village	GPT	\$ 493,964	2018
PIPSQ70111	DV_GPT_8	Dayboro Village	GPT	\$ 55,350	2020
PIPSQ70112	DV_GPT_9	Dayboro Village	GPT	\$ 138,973	2022
PIPSQ70113	DV_REV_1	Dayboro Village	Revegetation	\$ 3,511,319	2026
PIPSQ70114	DV_RMAJ_1	Dayboro Village	RCMA Major	\$ 167,823	2019

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70115	DV_RMIN_1	Dayboro Village	RCMA Minor	\$ 13,003	2009
PIPSQ70116	DV_ST_1	Dayboro Village	Sediment Trap	\$ 31,436	2022
PIPSQ70117	DV_ST_2	Dayboro Village	Sediment Trap	\$ 31,178	2023
PIPSQ70118	DV_ST_3	Dayboro Village	Sediment Trap	\$ 30,922	2024
PIPSQ70119	DV_ST_4	Dayboro Village	Sediment Trap	\$ 30,668	2025
PIPSQ70120	DV_ST_5	Dayboro Village	Sediment Trap	\$ 30,668	2025
PIPSQ70121	DV_ST_6	Dayboro Village	Sediment Trap	\$ 30,417	2026
PIPSQ70122	DV_ST_7	Dayboro Village	Sediment Trap	\$ 30,167	2027
PIPSQ70123	DV_ST_8	Dayboro Village	Sediment Trap	\$ 29,919	2028
PIPSQ70124	DV_ST_9	Dayboro Village	Sediment Trap	\$ 29,919	2028
PIPSQ70125	ED_GPT_1	Eatons Hill / Draper	GPT	\$ 59,612	2011
PIPSQ70126	ED_REH_1	Eatons Hill / Draper	Rehabilitation	\$ 2,818,249	2024
PIPSQ70127	ED_REH_2	Eatons Hill / Draper	Rehabilitation	\$ 1,365,993	2027
PIPSQ70128	ED_REV_2	Eatons Hill / Draper	Revegetation	\$ 147,694	2027
PIPSQ70129	ED_RMIN_1	Eatons Hill / Draper	RCMA Minor	\$ 4,522,997	2016
PIPSQ70131	ED_ST_1	Eatons Hill / Draper	Sediment Trap	\$ 33,030	2016
PIPSQ70132	ED_ST_2	Eatons Hill / Draper	Sediment Trap	\$ 32,759	2017
PIPSQ70133	ED_ST_3	Eatons Hill / Draper	Sediment Trap	\$ 31,959	2020
PIPSQ70134	ED_ST_4	Eatons Hill / Draper	Sediment Trap	\$ 31,178	2023
PIPSQ70135	ED_ST_5	Eatons Hill / Draper	Sediment Trap	\$ 30,167	2027
PIPSQ70136	ED_ST_6	Eatons Hill / Draper	Sediment Trap	\$ 29,674	2029
PIPSQ70137	ED_TR_1	Eatons Hill / Draper	Trash Rack	\$ 11,286	2013
PIPSQ70138	ED_TR_2	Eatons Hill / Draper	Trash Rack	\$ 11,286	2013
PIPSQ70139	EW_GPT_1	Eatons Hill / Warner	GPT	\$ 132,268	2028
PIPSQ70140	EW_REH_1	Eatons Hill / Warner	Rehabilitation	\$ 2,155,516	2027
PIPSQ70141	EW_WET_1	Eatons Hill / Warner	Wetland	\$ 11,186,440	2026
PIPSQ70142	FC_GPT_1	Freshwater Creek	GPT	\$ 531,997	2009
PIPSQ70143	FC_GPT_10	Freshwater Creek	GPT	\$ 154,690	2009
PIPSQ70144	FC_GPT_100	Freshwater Creek	GPT	\$ 312,879	2029
PIPSQ70145	FC_GPT_11	Freshwater Creek	GPT	\$ 113,057	2010
PIPSQ70146	FC_GPT_12	Freshwater Creek	GPT	\$ 113,057	2010
PIPSQ70147	FC_GPT_13	Freshwater Creek	GPT	\$ 365,918	2010
PIPSQ70148	FC_GPT_14	Freshwater Creek	GPT	\$ 365,918	2010
PIPSQ70149	FC_GPT_15	Freshwater Creek	GPT	\$ 80,536	2010
PIPSQ70150	FC_GPT_16	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70151	FC_GPT_17	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70152	FC_GPT_18	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70154	FC_GPT_2	Freshwater Creek	GPT	\$ 113,993	2009
PIPSQ70155	FC_GPT_20	Freshwater Creek	GPT	\$ 527,631	2010
PIPSQ70156	FC_GPT_21	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70157	FC_GPT_22	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70158	FC_GPT_23	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70159	FC_GPT_24	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70160	FC_GPT_25	Freshwater Creek	GPT	\$ 78,569	2013
PIPSQ70161	FC_GPT_26	Freshwater Creek	GPT	\$ 19,029	2013
PIPSQ70162	FC_GPT_27	Freshwater Creek	GPT	\$ 19,029	2013
PIPSQ70163	FC_GPT_28	Freshwater Creek	GPT	\$ 58,637	2013
PIPSQ70164	FC_GPT_29	Freshwater Creek	GPT	\$ 356,982	2013
PIPSQ70165	FC_GPT_3	Freshwater Creek	GPT	\$ 531,997	2009
PIPSQ70166	FC_GPT_30	Freshwater Creek	GPT	\$ 110,296	2013
PIPSQ70167	FC_GPT_31	Freshwater Creek	GPT	\$ 58,637	2013
PIPSQ70168	FC_GPT_32	Freshwater Creek	GPT	\$ 110,296	2013
PIPSQ70169	FC_GPT_33	Freshwater Creek	GPT	\$ 58,637	2013
PIPSQ70170	FC_GPT_34	Freshwater Creek	GPT	\$ 372,000	2008
PIPSQ70171	FC_GPT_35	Freshwater Creek	GPT	\$ 61,104	2008
PIPSQ70172	FC_GPT_36	Freshwater Creek	GPT	\$ 536,400	2008
PIPSQ70173	FC_GPT_37	Freshwater Creek	GPT	\$ 81,875	2008
PIPSQ70174	FC_GPT_38	Freshwater Creek	GPT	\$ 61,104	2008
PIPSQ70175	FC_GPT_39	Freshwater Creek	GPT	\$ 148,445	2014
PIPSQ70176	FC_GPT_4	Freshwater Creek	GPT	\$ 531,997	2009
PIPSQ70177	FC_GPT_40	Freshwater Creek	GPT	\$ 109,391	2014
PIPSQ70178	FC_GPT_41	Freshwater Creek	GPT	\$ 510,520	2014
PIPSQ70179	FC_GPT_42	Freshwater Creek	GPT	\$ 510,520	2014
PIPSQ70180	FC_GPT_43	Freshwater Creek	GPT	\$ 531,997	2009
PIPSQ70181	FC_GPT_44	Freshwater Creek	GPT	\$ 60,602	2009
PIPSQ70182	FC_GPT_45	Freshwater Creek	GPT	\$ 113,993	2009
PIPSQ70183	FC_GPT_46	Freshwater Creek	GPT	\$ 26,261	2009
PIPSQ70184	FC_GPT_47	Freshwater Creek	GPT	\$ 154,690	2009
PIPSQ70185	FC_GPT_48	Freshwater Creek	GPT	\$ 531,997	2009
PIPSQ70186	FC_GPT_49	Freshwater Creek	GPT	\$ 113,993	2009
PIPSQ70187	FC_GPT_5	Freshwater Creek	GPT	\$ 531,997	2009

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70188	FC_GPT_50	Freshwater Creek	GPT	\$ 531,997	2009
PIPSQ70189	FC_GPT_51	Freshwater Creek	GPT	\$ 26,261	2009
PIPSQ70190	FC_GPT_52	Freshwater Creek	GPT	\$ 113,993	2009
PIPSQ70191	FC_GPT_53	Freshwater Creek	GPT	\$ 26,261	2009
PIPSQ70192	FC_GPT_54	Freshwater Creek	GPT	\$ 80,536	2010
PIPSQ70193	FC_GPT_55	Freshwater Creek	GPT	\$ 26,045	2010
PIPSQ70194	FC_GPT_56	Freshwater Creek	GPT	\$ 80,536	2010
PIPSQ70195	FC_GPT_57	Freshwater Creek	GPT	\$ 527,631	2010
PIPSQ70196	FC_GPT_58	Freshwater Creek	GPT	\$ 26,045	2010
PIPSQ70197	FC_GPT_59	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70198	FC_GPT_6	Freshwater Creek	GPT	\$ 113,993	2009
PIPSQ70199	FC_GPT_60	Freshwater Creek	GPT	\$ 153,420	2010
PIPSQ70200	FC_GPT_61	Freshwater Creek	GPT	\$ 527,631	2010
PIPSQ70201	FC_GPT_62	Freshwater Creek	GPT	\$ 153,420	2010
PIPSQ70202	FC_GPT_63	Freshwater Creek	GPT	\$ 26,045	2010
PIPSQ70203	FC_GPT_64	Freshwater Creek	GPT	\$ 60,105	2010
PIPSQ70204	FC_GPT_65	Freshwater Creek	GPT	\$ 25,409	2013
PIPSQ70205	FC_GPT_66	Freshwater Creek	GPT	\$ 110,296	2013
PIPSQ70206	FC_GPT_67	Freshwater Creek	GPT	\$ 110,296	2013
PIPSQ70207	FC_GPT_68	Freshwater Creek	GPT	\$ 514,745	2013
PIPSQ70208	FC_GPT_69	Freshwater Creek	GPT	\$ 356,982	2013
PIPSQ70209	FC_GPT_7	Freshwater Creek	GPT	\$ 154,690	2009
PIPSQ70210	FC_GPT_70	Freshwater Creek	GPT	\$ 110,296	2013
PIPSQ70211	FC_GPT_71	Freshwater Creek	GPT	\$ 356,982	2013
PIPSQ70212	FC_GPT_72	Freshwater Creek	GPT	\$ 58,637	2013
PIPSQ70213	FC_GPT_73	Freshwater Creek	GPT	\$ 38,375	2014
PIPSQ70214	FC_GPT_74	Freshwater Creek	GPT	\$ 24,789	2016
PIPSQ70215	FC_GPT_75	Freshwater Creek	GPT	\$ 76,651	2016
PIPSQ70216	FC_GPT_76	Freshwater Creek	GPT	\$ 56,270	2018
PIPSQ70217	FC_GPT_77	Freshwater Creek	GPT	\$ 493,964	2018
PIPSQ70218	FC_GPT_78	Freshwater Creek	GPT	\$ 342,570	2018
PIPSQ70219	FC_GPT_79	Freshwater Creek	GPT	\$ 143,631	2018
PIPSQ70220	FC_GPT_8	Freshwater Creek	GPT	\$ 19,667	2009
PIPSQ70221	FC_GPT_80	Freshwater Creek	GPT	\$ 104,113	2020
PIPSQ70222	FC_GPT_81	Freshwater Creek	GPT	\$ 485,888	2020
PIPSQ70223	FC_GPT_82	Freshwater Creek	GPT	\$ 141,283	2020
PIPSQ70224	FC_GPT_83	Freshwater Creek	GPT	\$ 485,888	2020
PIPSQ70225	FC_GPT_84	Freshwater Creek	GPT	\$ 17,963	2020
PIPSQ70226	FC_GPT_85	Freshwater Creek	GPT	\$ 55,350	2020
PIPSQ70227	FC_GPT_86	Freshwater Creek	GPT	\$ 17,237	2025
PIPSQ70228	FC_GPT_87	Freshwater Creek	GPT	\$ 458,650	2027
PIPSQ70229	FC_GPT_88	Freshwater Creek	GPT	\$ 70,007	2027
PIPSQ70230	FC_GPT_89	Freshwater Creek	GPT	\$ 52,247	2027
PIPSQ70231	FC_GPT_9	Freshwater Creek	GPT	\$ 368,947	2009
PIPSQ70232	FC_GPT_90	Freshwater Creek	GPT	\$ 34,476	2027
PIPSQ70233	FC_GPT_91	Freshwater Creek	GPT	\$ 16,956	2027
PIPSQ70234	FC_GPT_92	Freshwater Creek	GPT	\$ 16,956	2027
PIPSQ70236	FC_GPT_94	Freshwater Creek	GPT	\$ 16,816	2028
PIPSQ70237	FC_GPT_95	Freshwater Creek	GPT	\$ 16,816	2028
PIPSQ70238	FC_GPT_96	Freshwater Creek	GPT	\$ 454,885	2028
PIPSQ70239	FC_GPT_97	Freshwater Creek	GPT	\$ 51,393	2029
PIPSQ70240	FC_GPT_98	Freshwater Creek	GPT	\$ 51,393	2029
PIPSQ70241	FC_GPT_99	Freshwater Creek	GPT	\$ 131,182	2029
PIPSQ70242	FC_REH_2	Freshwater Creek	Rehabilitation	\$ 25,626,380	2023
PIPSQ70243	FC_REV_1	Freshwater Creek	Revegetation	\$ 3,227,288	2027
PIPSQ70244	FC_SB_1	Freshwater Creek	Sedimentation Basin	\$ 721,405	2009
PIPSQ70245	FM_GPT_1	Four Mile Creek	GPT	\$ 18,261	2018
PIPSQ70246	FM_GPT_10	Four Mile Creek	GPT	\$ 474,022	2023
PIPSQ70247	FM_GPT_11	Four Mile Creek	GPT	\$ 137,832	2023
PIPSQ70248	FM_GPT_12	Four Mile Creek	GPT	\$ 17,237	2025
PIPSQ70249	FM_GPT_2	Four Mile Creek	GPT	\$ 18,261	2018
PIPSQ70250	FM_GPT_3	Four Mile Creek	GPT	\$ 55,350	2020
PIPSQ70251	FM_GPT_4	Four Mile Creek	GPT	\$ 485,888	2020
PIPSQ70252	FM_GPT_5	Four Mile Creek	GPT	\$ 485,888	2020
PIPSQ70253	FM_GPT_6	Four Mile Creek	GPT	\$ 73,556	2021
PIPSQ70254	FM_GPT_7	Four Mile Creek	GPT	\$ 481,900	2021
PIPSQ70255	FM_GPT_8	Four Mile Creek	GPT	\$ 474,022	2023
PIPSQ70256	FM_GPT_9	Four Mile Creek	GPT	\$ 474,022	2023
PIPSQ70257	FM_REH_1	Four Mile Creek	Rehabilitation	\$ 177,846	2010
PIPSQ70258	FM_REH_2	Four Mile Creek	Rehabilitation	\$ 5,162,248	2014
PIPSQ70259	FM_REH_3	Four Mile Creek	Rehabilitation	\$ 271,625	2009

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70260	FM_REH_5	Four Mile Creek	Rehabilitation	\$ 4,204,464	2020
PIPSQ70261	FM_REV_1	Four Mile Creek	Revegetation	\$ 5,161,913	2025
PIPSQ70262	FM_REV_2	Four Mile Creek	Revegetation	\$ 307,266	2025
PIPSQ70263	FM_REV_3	Four Mile Creek	Revegetation	\$ 5,380,518	2008
PIPSQ70264	FM_REV_4	Four Mile Creek	Revegetation	\$ 1,193,371	2029
PIPSQ70265	FM_ST_1	Four Mile Creek	Sediment Trap	\$ 30,167	2027
PIPSQ70266	FM_ST_2	Four Mile Creek	Sediment Trap	\$ 30,167	2027
PIPSQ70267	FM_ST_3	Four Mile Creek	Sediment Trap	\$ 30,167	2027
PIPSQ70268	FM_ST_4	Four Mile Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70269	FM_ST_5	Four Mile Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70270	FM_ST_6	Four Mile Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70271	FM_ST_7	Four Mile Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70272	FM_ST_8	Four Mile Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70273	FM_ST_9	Four Mile Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70274	FM_TR_1	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70275	FM_TR_10	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70276	FM_TR_11	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70277	FM_TR_12	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70278	FM_TR_13	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70279	FM_TR_14	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70280	FM_TR_15	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70281	FM_TR_16	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70282	FM_TR_17	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70283	FM_TR_18	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70284	FM_TR_19	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70285	FM_TR_2	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70286	FM_TR_20	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70287	FM_TR_21	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70288	FM_TR_22	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70289	FM_TR_23	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70290	FM_TR_24	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70291	FM_TR_25	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70292	FM_TR_26	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70293	FM_TR_27	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70294	FM_TR_28	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70295	FM_TR_29	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70296	FM_TR_3	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70297	FM_TR_30	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70298	FM_TR_31	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70299	FM_TR_32	Four Mile Creek	Trash rack	\$ 10,056	2027
PIPSQ70300	FM_TR_4	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70301	FM_TR_5	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70302	FM_TR_6	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70303	FM_TR_7	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70304	FM_TR_8	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70305	FM_TR_9	Four Mile Creek	Trash rack	\$ 10,223	2025
PIPSQ70306	FM_WET_1	Four Mile Creek	Wetland	\$ 2,440,113	2010
PIPSQ70307	FM_WET_2	Four Mile Creek	Wetland	\$ 2,050,258	2017
PIPSQ90001	GR_BIO_1	Griffin	Bioretention Basin	\$ 421,987	2010
PIPSQ90002	GR_BIO_10	Griffin	Bioretention Basin	\$ 160,605	2011
PIPSQ90003	GR_BIO_11	Griffin	Bioretention Basin	\$ 148,474	2012
PIPSQ90004	GR_BIO_12	Griffin	Bioretention Basin	\$ 125,591	2013
PIPSQ90005	GR_BIO_13	Griffin	Bioretention Basin	\$ 558,560	2014
PIPSQ90006	GR_BIO_14	Griffin	Bioretention Basin	\$ 174,794	2015
PIPSQ90007	GR_BIO_15	Griffin	Bioretention Basin	\$ 42,222	2016
PIPSQ90008	GR_BIO_16	Griffin	Bioretention Basin	\$ 130,571	2017
PIPSQ90009	GR_BIO_17	Griffin	Bioretention Basin	\$ 204,437	2018
PIPSQ90010	GR_BIO_18	Griffin	Bioretention Basin	\$ 308,248	2019
PIPSQ90011	GR_BIO_19	Griffin	Bioretention Basin	\$ 382,488	2020
PIPSQ90012	GR_BIO_2	Griffin	Bioretention Basin	\$ 30,321	2021
PIPSQ90013	GR_BIO_20	Griffin	Bioretention Basin	\$ 401,576	2010
PIPSQ90014	GR_BIO_21	Griffin	Bioretention Basin	\$ 68,729	2011
PIPSQ90015	GR_BIO_22	Griffin	Bioretention Basin	\$ 272,371	2012
PIPSQ90016	GR_BIO_23	Griffin	Bioretention Basin	\$ 351,176	2013
PIPSQ90017	GR_BIO_24	Griffin	Bioretention Basin	\$ 249,050	2014
PIPSQ90018	GR_BIO_25	Griffin	Bioretention Basin	\$ 471,451	2015
PIPSQ90019	GR_BIO_26	Griffin	Bioretention Basin	\$ 421,661	2016
PIPSQ90020	GR_BIO_27	Griffin	Bioretention Basin	\$ 730,272	2017
PIPSQ90021	GR_BIO_28	Griffin	Bioretention Basin	\$ 103,692	2018
PIPSQ90022	GR_BIO_29	Griffin	Bioretention Basin	\$ 169,742	2019
PIPSQ90023	GR_BIO_3	Griffin	Bioretention Basin	\$ 22,963	2020

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ90024	GR_BIO_30	Griffin	Bioretention Basin	\$ 31,646	2021
PIPSQ90025	GR_BIO_31	Griffin	Bioretention Basin	\$ 832,169	2010
PIPSQ90026	GR_BIO_32	Griffin	Bioretention Basin	\$ 1,004,455	2011
PIPSQ90027	GR_BIO_4	Griffin	Bioretention Basin	\$ 817,113	2012
PIPSQ90028	GR_BIO_5	Griffin	Bioretention Basin	\$ 43,471	2013
PIPSQ90029	GR_BIO_6	Griffin	Bioretention Basin	\$ 144,619	2014
PIPSQ90030	GR_BIO_7	Griffin	Bioretention Basin	\$ 89,202	2015
PIPSQ90031	GR_BIO_8	Griffin	Bioretention Basin	\$ 131,067	2016
PIPSQ90032	GR_BIO_9	Griffin	Bioretention Basin	\$ 235,238	2017
PIPSQ70308	GR_GPT_1	Griffin	GPT	\$ 41,574	2008
PIPSQ70309	GR_GPT_2	Griffin	GPT	\$ 70,362	2019
PIPSQ70310	GR_GPT_3	Griffin	GPT	\$ 47,174	2019
PIPSQ90033	GR_POND_1	Griffin	Pond	\$ 1,228,389	2009
PIPSQ90034	GR_POND_2	Griffin	Pond	\$ 1,013,725	2017
PIPSQ90035	GR_POND_3	Griffin	Pond	\$ 608,599	2018
PIPSQ90036	GR_REH_1	Griffin	Rehabilitation	\$ 15,373	2009
PIPSQ90037	GR_REH_1a	Griffin	Rehabilitation	\$ 15,373	2009
PIPSQ90038	GR_REH_2	Griffin	Rehabilitation	\$ 144,879	2018
PIPSQ90039	GR_REH_3	Griffin	Rehabilitation	\$ 21,411	2018
PIPSQ90040	GR_REH_4	Griffin	Rehabilitation	\$ 7,071	2009
PIPSQ90041	GR_REH_5	Griffin	Rehabilitation	\$ 20,716	2022
PIPSQ90042	GR_REV_1	Griffin	Revegetation	\$ 324,605	2010
PIPSQ90043	GR_REV_2	Griffin	Revegetation	\$ 55,588	2021
PIPSQ90044	GR_REV_3	Griffin	Revegetation	\$ 18,001	2009
PIPSQ90045	GR_REV_4	Griffin	Revegetation	\$ 3,927	2009
PIPSQ90046	GR_RMIN_1	Griffin	RCMA Minor	\$ 3,953	2010
PIPSQ90047	GR_RMIN_2	Griffin	RCMA Minor	\$ 3,818	2011
PIPSQ90048	GR_RMIN_3	Griffin	RCMA Minor	\$ 436,352	2012
PIPSQ90049	GR_RMIN_4	Griffin	RCMA Minor	\$ 159,761	2013
PIPSQ90050	GR_RMIN_5	Griffin	RCMA Minor	\$ 89,200	2014
PIPSQ90051	GR_RMIN_6	Griffin	RCMA Minor	\$ 10,605	2015
PIPSQ90052	GR_SW_1	Griffin	Swale	\$ 9,708	2014
PIPSQ70315	GR_WET_1	Griffin	Wetland	\$ 1,176,046	2014
PIPSQ70316	GR_WET_2	Griffin	Wetland	\$ 1,140,409	2013
PIPSQ70317	GR_WET_3	Griffin	Wetland	\$ 2,627,657	2009
PIPSQ70318	GR_WET_4	Griffin	Wetland	\$ 4,045,325	2011
PIPSQ70319	GR_WET_5	Griffin	Wetland	\$ 1,324,335	2012
PIPSQ70321	KB_GPT_1	Kedron Brook	GPT	\$ 531,997	2009
PIPSQ70322	KB_GPT_10	Kedron Brook	GPT	\$ 80,536	2010
PIPSQ70323	KB_GPT_11	Kedron Brook	GPT	\$ 514,745	2013
PIPSQ70324	KB_GPT_12	Kedron Brook	GPT	\$ 61,104	2008
PIPSQ70325	KB_GPT_13	Kedron Brook	GPT	\$ 60,602	2009
PIPSQ70326	KB_GPT_14	Kedron Brook	GPT	\$ 58,637	2013
PIPSQ70327	KB_GPT_15	Kedron Brook	GPT	\$ 149,673	2013
PIPSQ70328	KB_GPT_16	Kedron Brook	GPT	\$ 510,520	2014
PIPSQ70329	KB_GPT_17	Kedron Brook	GPT	\$ 502,174	2016
PIPSQ70330	KB_GPT_18	Kedron Brook	GPT	\$ 493,964	2018
PIPSQ70331	KB_GPT_19	Kedron Brook	GPT	\$ 55,808	2019
PIPSQ70332	KB_GPT_2	Kedron Brook	GPT	\$ 489,909	2019
PIPSQ70333	KB_GPT_3	Kedron Brook	GPT	\$ 74,165	2020
PIPSQ70334	KB_GPT_4	Kedron Brook	GPT	\$ 53,998	2023
PIPSQ70335	KB_GPT_5	Kedron Brook	GPT	\$ 474,022	2023
PIPSQ70336	KB_GPT_6	Kedron Brook	GPT	\$ 466,272	2025
PIPSQ70337	KB_GPT_7	Kedron Brook	GPT	\$ 458,650	2027
PIPSQ70338	KB_GPT_8	Kedron Brook	GPT	\$ 838,744	2028
PIPSQ70339	KB_GPT_9	Kedron Brook	GPT	\$ 68,863	2029
PIPSQ70340	KB_REH_1	Kedron Brook	Rehabilitation	\$ 432,412	2008
PIPSQ70341	KB_REH_2	Kedron Brook	Rehabilitation	\$ 1,576,344	2010
PIPSQ70342	KB_REH_3	Kedron Brook	Rehabilitation	\$ 214,051	2012
PIPSQ70343	KB_REV_1	Kedron Brook	Revegetation	\$ 511,608	2013
PIPSQ70344	KB_REV_3	Kedron Brook	Revegetation	\$ 836,824	2016
PIPSQ70345	KB_RMAJ_1	Kedron Brook	RCMA Major	\$ 501,282	2027
PIPSQ70346	KC_GPT_1	Kingfisher Creek	GPT	\$ 485,888	2020
PIPSQ70347	KC_GPT_2	Kingfisher Creek	GPT	\$ 104,113	2020
PIPSQ70348	KC_GPT_3	Kingfisher Creek	GPT	\$ 54,896	2021
PIPSQ70349	KC_GPT_4	Kingfisher Creek	GPT	\$ 334,204	2021
PIPSQ70350	KC_GPT_5	Kingfisher Creek	GPT	\$ 474,022	2023
PIPSQ70351	KC_GPT_6	Kingfisher Creek	GPT	\$ 35,631	2023
PIPSQ70352	KC_GPT_7	Kingfisher Creek	GPT	\$ 474,022	2023
PIPSQ70353	KC_REH_1	Kingfisher Creek	Rehabilitation	\$ 3,696,571	2027
PIPSQ70355	KC_ST_10	Kingfisher Creek	Sediment Trap	\$ 29,674	2029

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70356	KC_ST_2	Kingfisher Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70357	KC_ST_3	Kingfisher Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70358	KC_ST_4	Kingfisher Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70359	KC_ST_5	Kingfisher Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70360	KC_ST_6	Kingfisher Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70361	KC_ST_7	Kingfisher Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70362	KC_ST_8	Kingfisher Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70363	KC_ST_9	Kingfisher Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70364	KC_TR_1	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70365	KC_TR_10	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70366	KC_TR_11	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70367	KC_TR_12	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70368	KC_TR_13	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70369	KC_TR_14	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70370	KC_TR_15	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70371	KC_TR_16	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70372	KC_TR_17	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70373	KC_TR_18	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70374	KC_TR_19	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70375	KC_TR_2	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70376	KC_TR_20	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70377	KC_TR_21	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70378	KC_TR_22	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70379	KC_TR_23	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70380	KC_TR_24	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70381	KC_TR_25	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70382	KC_TR_26	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70383	KC_TR_27	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70384	KC_TR_28	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70385	KC_TR_29	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70386	KC_TR_3	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70389	KC_TR_32	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70390	KC_TR_33	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70391	KC_TR_34	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70392	KC_TR_35	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70393	KC_TR_36	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70394	KC_TR_37	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70395	KC_TR_38	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70396	KC_TR_39	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70397	KC_TR_4	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70398	KC_TR_40	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70399	KC_TR_41	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70400	KC_TR_42	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70401	KC_TR_43	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70402	KC_TR_44	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70403	KC_TR_45	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70404	KC_TR_46	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70405	KC_TR_47	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70406	KC_TR_48	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70407	KC_TR_49	Kingfisher Creek	Trash Rack	\$ 10,056	2027
PIPSQ70408	KC_TR_5	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70409	KC_TR_6	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70410	KC_TR_7	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70411	KC_TR_8	Kingfisher Creek	Trash Rack	\$ 10,393	2023
PIPSQ70412	KC_TR_9	Kingfisher Creek	Trash Rack	\$ 10,223	2025
PIPSQ70413	KC_WET_1	Kingfisher Creek	Wetland	\$ 2,652,325	2013
PIPSQ70414	KC_WET_2	Kingfisher Creek	Wetland	\$ 808,655	2019
PIPSQ70438	OM_GPT_1	One Mile Creek	GPT	\$ 53,115	2025
PIPSQ70439	OM_GPT_10	One Mile Creek	GPT	\$ 98,276	2027
PIPSQ70440	OM_GPT_11	One Mile Creek	GPT	\$ 98,276	2027
PIPSQ70441	OM_GPT_12	One Mile Creek	GPT	\$ 52,247	2027
PIPSQ70442	OM_GPT_13	One Mile Creek	GPT	\$ 70,007	2027
PIPSQ70443	OM_GPT_14	One Mile Creek	GPT	\$ 70,007	2027
PIPSQ70444	OM_GPT_2	One Mile Creek	GPT	\$ 17,237	2025
PIPSQ70445	OM_GPT_3	One Mile Creek	GPT	\$ 17,237	2025
PIPSQ70447	OM_GPT_5	One Mile Creek	GPT	\$ 35,049	2025
PIPSQ70448	OM_GPT_6	One Mile Creek	GPT	\$ 52,679	2026
PIPSQ70449	OM_GPT_7	One Mile Creek	GPT	\$ 458,650	2027
PIPSQ70452	OM_REH_1	One Mile Creek	Rehabilitation	\$ 2,650,981	2014
PIPSQ70453	OM_REH_2	One Mile Creek	Rehabilitation	\$ 2,467,751	2010
PIPSQ70454	OM_REH_3	One Mile Creek	Rehabilitation	\$ 1,639,540	2013

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70455	OM_REH_4	One Mile Creek	Rehabilitation	\$ 1,894,990	2016
PIPSQ70456	OM_REH_5	One Mile Creek	Rehabilitation	\$ 3,823,493	2021
PIPSQ70457	OM_REH_6	One Mile Creek	Rehabilitation	\$ 3,410,230	2027
PIPSQ70458	OM_SW_1	One Mile Creek	Swale	\$ 780,208	2028
PIPSQ70459	OM_WET_1	One Mile Creek	Wetland	\$ 2,951,534	2014
PIPSQ70460	OM_WET_10	One Mile Creek	Wetland	\$ 1,111,323	2023
PIPSQ70461	OM_WET_2	One Mile Creek	Wetland	\$ 1,101,439	2008
PIPSQ70462	OM_WET_3	One Mile Creek	Wetland	\$ 1,000,837	2010
PIPSQ70463	OM_WET_4	One Mile Creek	Wetland	\$ 525,919	2011
PIPSQ70464	OM_WET_5	One Mile Creek	Wetland	\$ 1,113,953	2013
PIPSQ70465	OM_WET_6	One Mile Creek	Wetland	\$ 1,059,583	2014
PIPSQ70466	OM_WET_7	One Mile Creek	Wetland	\$ 1,869,232	2016
PIPSQ70467	OM_WET_8	One Mile Creek	Wetland	\$ 540,314	2018
PIPSQ70468	OM_WET_9	One Mile Creek	Wetland	\$ 1,222,589	2022
PIPSQ70469	PE_GPT_1	Petrie	GPT	\$ 531,997	2009
PIPSQ70470	PE_GPT_10	Petrie	GPT	\$ 81,203	2009
PIPSQ70471	PE_GPT_11	Petrie	GPT	\$ 60,602	2009
PIPSQ70472	PE_GPT_12	Petrie	GPT	\$ 113,993	2009
PIPSQ70473	PE_GPT_13	Petrie	GPT	\$ 368,947	2009
PIPSQ70474	PE_GPT_14	Petrie	GPT	\$ 531,997	2009
PIPSQ70475	PE_GPT_15	Petrie	GPT	\$ 531,997	2009
PIPSQ70476	PE_GPT_16	Petrie	GPT	\$ 80,536	2010
PIPSQ70477	PE_GPT_17	Petrie	GPT	\$ 60,105	2010
PIPSQ70478	PE_GPT_18	Petrie	GPT	\$ 113,057	2010
PIPSQ70479	PE_GPT_19	Petrie	GPT	\$ 60,105	2010
PIPSQ70480	PE_GPT_2	Petrie	GPT	\$ 19,346	2011
PIPSQ70481	PE_GPT_20	Petrie	GPT	\$ 79,875	2011
PIPSQ70482	PE_GPT_21	Petrie	GPT	\$ 59,612	2011
PIPSQ70483	PE_GPT_22	Petrie	GPT	\$ 59,612	2011
PIPSQ70484	PE_GPT_23	Petrie	GPT	\$ 514,745	2013
PIPSQ70485	PE_GPT_24	Petrie	GPT	\$ 78,569	2013
PIPSQ70486	PE_GPT_25	Petrie	GPT	\$ 19,029	2013
PIPSQ70487	PE_GPT_26	Petrie	GPT	\$ 536,400	2008
PIPSQ70488	PE_GPT_27	Petrie	GPT	\$ 114,936	2008
PIPSQ70489	PE_GPT_28	Petrie	GPT	\$ 372,000	2008
PIPSQ70490	PE_GPT_29	Petrie	GPT	\$ 155,970	2008
PIPSQ70491	PE_GPT_3	Petrie	GPT	\$ 81,203	2009
PIPSQ70492	PE_GPT_30	Petrie	GPT	\$ 154,690	2009
PIPSQ70493	PE_GPT_31	Petrie	GPT	\$ 60,602	2009
PIPSQ70494	PE_GPT_32	Petrie	GPT	\$ 60,602	2009
PIPSQ70495	PE_GPT_33	Petrie	GPT	\$ 19,346	2011
PIPSQ70496	PE_GPT_34	Petrie	GPT	\$ 79,875	2011
PIPSQ70497	PE_GPT_35	Petrie	GPT	\$ 59,612	2011
PIPSQ70498	PE_GPT_36	Petrie	GPT	\$ 19,346	2011
PIPSQ70499	PE_GPT_37	Petrie	GPT	\$ 110,296	2013
PIPSQ70500	PE_GPT_38	Petrie	GPT	\$ 78,569	2013
PIPSQ70501	PE_GPT_39	Petrie	GPT	\$ 549,445	2013
PIPSQ70502	PE_GPT_4	Petrie	GPT	\$ 110,296	2013
PIPSQ70503	PE_GPT_5	Petrie	GPT	\$ 110,296	2013
PIPSQ70504	PE_GPT_6	Petrie	GPT	\$ 110,296	2013
PIPSQ70505	PE_GPT_7	Petrie	GPT	\$ 78,569	2013
PIPSQ70506	PE_GPT_8	Petrie	GPT	\$ 510,520	2014
PIPSQ70507	PE_GPT_9	Petrie	GPT	\$ 354,052	2014
PIPSQ70508	PE_REH_1	Petrie	Rehabilitation	\$ 781,041	2013
PIPSQ70509	PE_REV_1	Petrie	Revegetation	\$ 221,154	2016
PIPSQ70510	PE_WET_1	Petrie	Wetland	\$ 4,067,504	2018
PIPSQ70511	PE_WET_2	Petrie	Wetland	\$ 486,365	2021
PIPSQ70512	PE_WET_3	Petrie	Wetland	\$ 417,273	2026
PIPSQ70513	PE_WET_4	Petrie	Wetland	\$ 312,252	2029
PIPSQ70514	SAL_GPT_1	Saltwater Creek	GPT	\$ 18,111	2019
PIPSQ70519	SAL_GPT_14	Saltwater Creek	GPT	\$ 71,760	2024
PIPSQ70520	SAL_GPT_15	Saltwater Creek	GPT	\$ 135,579	2025
PIPSQ70521	SAL_GPT_16	Saltwater Creek	GPT	\$ 52,679	2026
PIPSQ70523	SAL_GPT_18	Saltwater Creek	GPT	\$ 17,096	2026
PIPSQ70525	SAL_GPT_2	Saltwater Creek	GPT	\$ 18,111	2019
PIPSQ70526	SAL_GPT_20	Saltwater Creek	GPT	\$ 52,247	2027
PIPSQ70527	SAL_GPT_21	Saltwater Creek	GPT	\$ 16,956	2027
PIPSQ70528	SAL_GPT_22	Saltwater Creek	GPT	\$ 16,816	2028
PIPSQ70529	SAL_GPT_23	Saltwater Creek	GPT	\$ 16,816	2028
PIPSQ70530	SAL_GPT_3	Saltwater Creek	GPT	\$ 17,963	2020
PIPSQ70531	SAL_GPT_4	Saltwater Creek	GPT	\$ 74,165	2020

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70533	SAL_GPT_6	Saltwater Creek	GPT	\$ 481,900	2021
PIPSQ70535	SAL_GPT_8	Saltwater Creek	GPT	\$ 35,631	2023
PIPSQ70536	SAL_GPT_9	Saltwater Creek	GPT	\$ 17,380	2024
PIPSQ70537	SAL_REH_1	Saltwater Creek	Rehabilitation	\$ 2,159,211	2010
PIPSQ70538	SAL_REH_2	Saltwater Creek	Rehabilitation	\$ 5,395,285	2010
PIPSQ70539	SAL_REH_3	Saltwater Creek	Rehabilitation	\$ 2,896,622	2012
PIPSQ70540	SAL_REH_4	Saltwater Creek	Rehabilitation	\$ 6,262,444	2013
PIPSQ70541	SAL_REH_5	Saltwater Creek	Rehabilitation	\$ 34,152,002	2018
PIPSQ70542	SAL_REV_1	Saltwater Creek	Revegetation	\$ 6,113,459	2011
PIPSQ70543	SAL_REV_2	Saltwater Creek	Revegetation	\$ 1,932,697	2012
PIPSQ70544	SAL_REV_4	Saltwater Creek	Revegetation	\$ 6,787,298	2008
PIPSQ70545	SAL_REV_5	Saltwater Creek	Revegetation	\$ 1,258,205	2008
PIPSQ70546	SAL_RMAJ_1	Saltwater Creek	RCMA Major	\$ 669,065	2028
PIPSQ70547	SAL_RMAJ_2	Saltwater Creek	RCMA Major	\$ 1,407,439	2028
PIPSQ70548	SAL_RMAJ_3	Saltwater Creek	RCMA Major	\$ 3,668,797	2028
PIPSQ70549	SAL_RMAJ_4	Saltwater Creek	RCMA Major	\$ 854,974	2028
PIPSQ70550	SAL_RMAJ_5	Saltwater Creek	RCMA Major	\$ 19,528,268	2028
PIPSQ70551	SAL_TR_1	Saltwater Creek	Trash Rack	\$ 121,714	2021
PIPSQ70553	SAL_TR_11	Saltwater Creek	Trash Rack	\$ 114,890	2028
PIPSQ70554	SAL_TR_12	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70555	SAL_TR_13	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70556	SAL_TR_14	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70557	SAL_TR_15	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70558	SAL_TR_16	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70559	SAL_TR_17	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70560	SAL_TR_18	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70561	SAL_TR_19	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70562	SAL_TR_2	Saltwater Creek	Trash Rack	\$ 121,714	2021
PIPSQ70563	SAL_TR_20	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70564	SAL_TR_21	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70565	SAL_TR_22	Saltwater Creek	Trash Rack	\$ 113,947	2029
PIPSQ70571	SAL_TR_7	Saltwater Creek	Trash Rack	\$ 119,724	2023
PIPSQ70572	SAL_TR_8	Saltwater Creek	Trash Rack	\$ 114,890	2028
PIPSQ70574	SAL_WET_1	Saltwater Creek	Wetland	\$ 2,930,749	2009
PIPSQ70575	SAL_WET_10	Saltwater Creek	Wetland	\$ 1,948,608	2009
PIPSQ70576	SAL_WET_11	Saltwater Creek	Wetland	\$ 570,340	2009
PIPSQ70577	SAL_WET_12	Saltwater Creek	Wetland	\$ 2,304,883	2011
PIPSQ70579	SAL_WET_14	Saltwater Creek	Wetland	\$ 921,219	2016
PIPSQ70583	SAL_WET_18	Saltwater Creek	Wetland	\$ 5,910,041	2012
PIPSQ70584	SAL_WET_2	Saltwater Creek	Wetland	\$ 756,846	2013
PIPSQ70585	SAL_WET_3	Saltwater Creek	Wetland	\$ 1,853,064	2013
PIPSQ70587	SAL_WET_5	Saltwater Creek	Wetland	\$ 3,898,448	2016
PIPSQ70588	SAL_WET_6	Saltwater Creek	Wetland	\$ 1,006,581	2016
PIPSQ70589	SAL_WET_7	Saltwater Creek	Wetland	\$ 1,144,264	2016
PIPSQ70590	SAL_WET_8	Saltwater Creek	Wetland	\$ 1,379,112	2017
PIPSQ70591	SAL_WET_9	Saltwater Creek	Wetland	\$ 1,667,558	2018
PIPSQ70592	SC_GPT_1	Sandy Creek	GPT	\$ 474,022	2023
PIPSQ70593	SC_GPT_2	Sandy Creek	GPT	\$ 474,022	2023
PIPSQ70594	SC_GPT_3	Sandy Creek	GPT	\$ 100,736	2024
PIPSQ70595	SC_GPT_4	Sandy Creek	GPT	\$ 470,131	2024
PIPSQ70596	SC_GPT_5	Sandy Creek	GPT	\$ 71,171	2025
PIPSQ70597	SC_GPT_6	Sandy Creek	GPT	\$ 462,445	2026
PIPSQ70598	SC_GPT_7	Sandy Creek	GPT	\$ 134,466	2026
PIPSQ70599	SC_GPT_8	Sandy Creek	GPT	\$ 318,079	2027
PIPSQ70600	SC_GPT_9	Sandy Creek	GPT	\$ 315,468	2028
PIPSQ70601	SC_REH_1	Sandy Creek	Rehabilitation	\$ 1,925,835	2016
PIPSQ70602	SC_REV_1	Sandy Creek	Revegetation	\$ 2,553,749	2028
PIPSQ70603	SC_ST_1	Sandy Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70604	SC_ST_2	Sandy Creek	Sediment Trap	\$ 29,674	2029
PIPSQ70605	SC_TR_1	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70606	SC_TR_10	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70607	SC_TR_11	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70608	SC_TR_12	Sandy Creek	Trash Rack	\$ 9,891	2029
PIPSQ70609	SC_TR_13	Sandy Creek	Trash Rack	\$ 9,891	2029
PIPSQ70610	SC_TR_14	Sandy Creek	Trash Rack	\$ 9,891	2029
PIPSQ70611	SC_TR_15	Sandy Creek	Trash Rack	\$ 9,891	2029
PIPSQ70612	SC_TR_16	Sandy Creek	Trash Rack	\$ 9,891	2029
PIPSQ70613	SC_TR_17	Sandy Creek	Trash Rack	\$ 9,891	2029
PIPSQ70614	SC_TR_18	Sandy Creek	Trash Rack	\$ 9,891	2029
PIPSQ70615	SC_TR_2	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70616	SC_TR_3	Sandy Creek	Trash Rack	\$ 9,973	2028

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70617	SC_TR_4	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70618	SC_TR_5	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70619	SC_TR_6	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70620	SC_TR_7	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70621	SC_TR_8	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70622	SC_TR_9	Sandy Creek	Trash Rack	\$ 9,973	2028
PIPSQ70623	SC_WET_1	Sandy Creek	Wetland	\$ 1,246,965	2013
PIPSQ70624	SC_WET_2	Sandy Creek	Wetland	\$ 1,433,182	2021
PIPSQ70625	SD_REH_1	Samford Downs	Rehabilitation	\$ 707,242	2018
PIPSQ70626	SD_REH_2	Samford Downs	Rehabilitation	\$ 6,340,896	2023
PIPSQ70627	SD_REH_3	Samford Downs	Rehabilitation	\$ 2,271,006	2025
PIPSQ70628	SD_REV_1	Samford Downs	Revegetation	\$ 629,888	2026
PIPSQ70629	SD_REV_2	Samford Downs	Revegetation	\$ 1,241,477	2028
PIPSQ70630	SD_RMIN_1	Samford Downs	RCMA Minor	\$ 175,108	2011
PIPSQ70631	SD_RMIN_2	Samford Downs	RCMA Minor	\$ 770,789	2018
PIPSQ70632	SID_GPT_1	Sideling Creek	GPT	\$ 59,612	2011
PIPSQ70633	SID_GPT_2	Sideling Creek	GPT	\$ 55,350	2020
PIPSQ70634	SID_GPT_3	Sideling Creek	GPT	\$ 16,816	2028
PIPSQ70635	SID_REV_1	Sideling Creek	Revegetation	\$ 2,199,934	2026
PIPSQ70636	SID_RMIN_1	Sideling Creek	RCMA Minor	\$ 99,759	2012
PIPSQ70726	SV_GPT_1	Samford Village	GPT	\$ 141,283	2020
PIPSQ70728	SV_RMIN_1	Samford Village	RCMA Minor	\$ 82,272	2014
PIPSQ70729	SV_ST_1	Samford Village	Sediment Trap	\$ 29,674	2029
PIPSQ70730	SV_TR_1	Samford Village	Trash Rack	\$ 10,393	2023
PIPSQ70731	TG_GPT_1	Todds Gully	GPT	\$ 113,993	2009
PIPSQ70732	TG_GPT_10	Todds Gully	GPT	\$ 531,997	2009
PIPSQ70733	TG_GPT_11	Todds Gully	GPT	\$ 81,203	2009
PIPSQ70734	TG_GPT_12	Todds Gully	GPT	\$ 79,875	2011
PIPSQ70735	TG_GPT_13	Todds Gully	GPT	\$ 79,875	2011
PIPSQ70736	TG_GPT_14	Todds Gully	GPT	\$ 58,637	2013
PIPSQ70737	TG_GPT_15	Todds Gully	GPT	\$ 514,745	2013
PIPSQ70738	TG_GPT_16	Todds Gully	GPT	\$ 58,637	2013
PIPSQ70739	TG_GPT_17	Todds Gully	GPT	\$ 149,673	2013
PIPSQ70740	TG_GPT_18	Todds Gully	GPT	\$ 58,156	2014
PIPSQ70741	TG_GPT_19	Todds Gully	GPT	\$ 510,520	2014
PIPSQ70742	TG_GPT_2	Todds Gully	GPT	\$ 58,156	2014
PIPSQ70743	TG_GPT_20	Todds Gully	GPT	\$ 502,174	2016
PIPSQ70744	TG_GPT_21	Todds Gully	GPT	\$ 76,651	2016
PIPSQ70745	TG_GPT_22	Todds Gully	GPT	\$ 502,174	2016
PIPSQ70746	TG_GPT_23	Todds Gully	GPT	\$ 502,174	2016
PIPSQ70747	TG_GPT_24	Todds Gully	GPT	\$ 56,270	2018
PIPSQ70748	TG_GPT_25	Todds Gully	GPT	\$ 493,964	2018
PIPSQ70749	TG_GPT_26	Todds Gully	GPT	\$ 493,964	2018
PIPSQ70750	TG_GPT_27	Todds Gully	GPT	\$ 493,964	2018
PIPSQ70751	TG_GPT_28	Todds Gully	GPT	\$ 493,964	2018
PIPSQ70752	TG_GPT_29	Todds Gully	GPT	\$ 74,779	2019
PIPSQ70753	TG_GPT_3	Todds Gully	GPT	\$ 55,808	2019
PIPSQ70754	TG_GPT_30	Todds Gully	GPT	\$ 489,909	2019
PIPSQ70755	TG_GPT_31	Todds Gully	GPT	\$ 74,165	2020
PIPSQ70756	TG_GPT_32	Todds Gully	GPT	\$ 336,970	2020
PIPSQ70757	TG_GPT_33	Todds Gully	GPT	\$ 104,113	2020
PIPSQ70758	TG_GPT_34	Todds Gully	GPT	\$ 54,896	2021
PIPSQ70759	TG_GPT_35	Todds Gully	GPT	\$ 477,945	2022
PIPSQ70761	TG_GPT_37	Todds Gully	GPT	\$ 53,998	2023
PIPSQ70762	TG_GPT_38	Todds Gully	GPT	\$ 474,022	2023
PIPSQ70763	TG_GPT_39	Todds Gully	GPT	\$ 71,760	2024
PIPSQ70764	TG_GPT_4	Todds Gully	GPT	\$ 53,555	2024
PIPSQ70765	TG_GPT_40	Todds Gully	GPT	\$ 71,171	2025
PIPSQ70766	TG_GPT_41	Todds Gully	GPT	\$ 71,171	2025
PIPSQ70767	TG_GPT_42	Todds Gully	GPT	\$ 52,679	2026
PIPSQ70768	TG_GPT_43	Todds Gully	GPT	\$ 52,679	2026
PIPSQ70769	TG_GPT_44	Todds Gully	GPT	\$ 17,096	2026
PIPSQ70770	TG_GPT_45	Todds Gully	GPT	\$ 52,247	2027
PIPSQ70771	TG_GPT_46	Todds Gully	GPT	\$ 52,247	2027
PIPSQ70772	TG_GPT_5	Todds Gully	GPT	\$ 51,818	2028
PIPSQ70773	TG_GPT_6	Todds Gully	GPT	\$ 51,818	2028
PIPSQ70774	TG_GPT_7	Todds Gully	GPT	\$ 68,863	2029
PIPSQ70775	TG_GPT_8	Todds Gully	GPT	\$ 451,151	2029
PIPSQ70776	TG_GPT_9	Todds Gully	GPT	\$ 68,863	2029
PIPSQ70777	TG_REV_1	Todds Gully	Revegetation	\$ 1,160,456	2029
PIPSQ70778	TG_RMAJ_1	Todds Gully	RCMA Major	\$ 234,253	2008

Project ID	Project Name	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSQ70779	TG_WET_1	Todds Gully	Wetland	\$ 1,334,002	2008
PIPSQ70780	WC_REH_2	Wongam Creek	Rehabilitation	\$ 3,502,283	2010
PIPSQ70781	WC_REV_1	Wongam Creek	Revegetation	\$ 6,843,358	2021
PIPSQ70782	WC_REV_2	Wongam Creek	Revegetation	\$ 1,878,304	2029
PIPSQ70783	WC_RMIN_1	Wongam Creek	RCMA Minor	\$ 32,996	2010
PIPSQ70784	WC_RMIN_2	Wongam Creek	RCMA Minor	\$ 397,292	2025
PIPSQ70785	WC_ST_1	Wongam Creek	Sediment Trap	\$ 29,919	2028
PIPSQ70786	WC_TR_1	Wongam Creek	Trash Rack	\$ 11,664	2009
				\$418,806,986	

Table 4.6D – Creek Quantity Stormwater Works

Project ID	GIS IDENTIFIER	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSD70004	BC_CU_1	Branch Creek	Crossing Upgrade	\$ 466,943	2016
PIPSD70010	CC_RES_1	Conflagration Creek	Corridor - Reserve	\$ 4,514,412	2025
PIPSD70011	COU_DB_1	Coulthards Creek	Detention Basin	\$ 948,340	2026
	COU_DB_2	Coulthards Creek	Detention Basin	\$ 1,677,994	2011
	COU_OCW_1	Coulthards Creek	Open Channel Work	\$ 774,056	2012
PIPSD70012	COU_RES_1	Coulthards Creek	Corridor - Reserve	\$ 592,298	2008
PIPSD70017	CT_CU_3	Cabbage Tree Creek	Crossing Upgrade	\$ 301,648	2014
PIPSD70021	FC_DB_2	Freshwater Creek	Detention Basin	\$ 2,697,173	2010
PIPSD70022	FC_DB_3	Freshwater Creek	Detention Basin	\$ 1,816,895	2014
PIPSD70024	FM_CU_1	Four Mile Creek	Crossing Upgrade	\$ 270,253	2023
PIPSD70025	FM_DB_1	Four Mile Creek	Detention Basin	\$ 456,871	2029
PIPSD70026	FM_DB_2	Four Mile Creek	Detention Basin	\$ 215,588	2020
PIPSD70027	FM_DB_3	Four Mile Creek	Detention Basin	\$ 295,434	2019
PIPSD70037	GR_CU_1	Griffin	Crossing Upgrade	\$ 433,029	2023
PIPSD70038	GR_CU_2	Griffin	Crossing Upgrade	\$ 429,475	2024
PIPSD70039	GR_CU_3	Griffin	Crossing Upgrade	\$ 418,986	2027
PIPSD70040	GR_DB_1	Griffin	Detention Basin	\$ 194,987	2017
PIPSD70041	GR_DB_2	Griffin	Detention Basin	\$ 443,858	2020
PIPSD70042	GR_DB_3	Griffin	Detention Basin	\$ 362,321	2023
PIPSD70047	KB_OCW_1	Kedron Brook	Open Channel Work	\$ 1,162,569	2025
PIPSD70058	OM_DB_2	One Mile Creek	Detention Basin	\$ 1,404,832	2011
PIPSD70062	PE_DB_1	Petrie	Detention Basin	\$ 182,545	2025
PIPSD70067	SAL_CU_3	Saltwater Creek	Crossing Upgrade	\$ 92,452	2010
PIPSD70068	SAL_CU_4	Saltwater Creek	Crossing Upgrade	\$ 30,817	2010
PIPSD70069	SAL_DB_1	Saltwater Creek	Detention Basin	\$ 282,918	2011
PIPSD70070	SAL_DB_10	Saltwater Creek	Detention Basin	\$ 255,749	2010
PIPSD70071	SAL_DB_11	Saltwater Creek	Detention Basin	\$ 230,000	2008
PIPSD70073	SAL_DB_2	Saltwater Creek	Detention Basin	\$ 126,161	2029
PIPSD70077	SAL_DB_6	Saltwater Creek	Detention Basin	\$ 171,774	2017
PIPSD70080	SAL_DB_9	Saltwater Creek	Detention Basin	\$ 159,153	2016
PIPSD70081	SAL_RES_1	Saltwater Creek	Corridor - Reserve	\$ 28,572,335	2022
PIPSD70082	SAL_RES_4	Saltwater Creek	Corridor - Reserve	\$ 9,363,448	2029
PIPSD70101	TG_CU_1	Todds Gully	Crossing Upgrade	\$ 673,251	2016
PIPSD70102	TG_CU_2	Todds Gully	Crossing Upgrade	\$ 207,980	2019
PIPSD70103	TG_CU_3	Todds Gully	Crossing Upgrade	\$ 431,893	2024
PIPSD70104	TG_CU_4	Todds Gully	Crossing Upgrade	\$ 73,316	2027
PIPSD70105	TG_OCW_1	Todds Gully	Open Channel Work	\$ 207,627	2009
PIPSD70106	TG_OCW_2	Todds Gully	Open Channel Work	\$ 211,314	2011
PIPSD70048	KC_BS_1	Kingfisher Creek	Bank Stabilisation	\$ 178,032	2025
PIPSD70045	KB_BS_1	Kedron Brook	Bank Stabilisation	\$ 568,946	2012
PIPSD70046	KB_BS_2	Kedron Brook	Bank Stabilisation	\$ 559,645	2014
PIPSD70055	OM_BS_1	One Mile Creek	Bank Stabilisation	\$ 1,367,926	2026
PIPSD70056	OM_BS_3	One Mile Creek	Bank Stabilisation	\$ 245,472	2009
PIPSD70057	OM_BS_4	One Mile Creek	Bank Stabilisation	\$ 241,459	2011
PIPSD00069	SAL_BS_1	Saltwater Creek	Bank Stabilisation	\$ 6,155,160	2021
PIPSD90001	GR_BS_1	Griffin	Bank Stabilisation	\$ 1,904	2014
PIPSD90002	GR_BS_2	Griffin	Bank Stabilisation	\$ 10,279	2014
PIPSD90003	GR_BS_3	Griffin	Bank Stabilisation	\$ 25,697	2014
PIPSD90004	GR_BS_4	Griffin	Bank Stabilisation	\$ 10,469	2014
				\$ 70,515,680	

Table 4.6E – Local Quantity Stormwater Works

Project ID	GIS IDENTIFIER	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSD70109	BS01_OCW1	Brendale/Strathpine	Open Channel Work	\$2,245,173	2010
PIPSD70001	BS01_PD_1	Brendale/Strathpine	Pipe Drainage	\$4,603,881	2017
PIPSD70002	BS01_PD_2	Brendale/Strathpine	Pipe Drainage	\$535,465	2017
PIPSD70008	BS01_PD_3	Brendale/Strathpine	Pipe Drainage	\$1,285,417	2019
PIPSD70009	BS01_PD_4	Brendale/Strathpine	Pipe Drainage	\$1,209,443	2024
PIPSD70013	COU01_PD_1	Coulthards Creek	Pipe Drainage	\$508,437	2012
PIPSD70014	COU01_PD_2	Coulthards Creek	Pipe Drainage	\$112,178	2008
PIPSD70030	FW01_PD_1	Freshwater Creek	Pipe Drainage	\$634,134	2012
PIPSD70031	FW01_PD_2	Freshwater Creek	Pipe Drainage	\$1,678,102	2012
PIPSD70032	FW01_PD_3	Freshwater Creek	Pipe Drainage	\$3,311,099	2028
PIPSD70033	FW02_PD_1	Freshwater Creek	Pipe Drainage	\$827,006	2020
PIPSD70034	FW02_PD_2	Freshwater Creek	Pipe Drainage	\$208,340	2027
PIPSD70035	FW03_PD_1	Freshwater Creek	Pipe Drainage	\$853,151	2022
PIPSD70036	FW03_PD_2	Freshwater Creek	Pipe Drainage	\$890,421	2027
PIPSD70059	P01_PD_1	Petrie	Pipe Drainage	\$1,915,884	2010
PIPSD70060	P01_PD_2	Petrie	Pipe Drainage	\$734,407	2018
PIPSD70061	P01_PD_3	Petrie	Pipe Drainage	\$1,795,873	2029
				\$23,348,411	

Table 4.6F – Local Quality Stormwater Works

Project ID	GIS IDENTIFIER	SERVICE CATCHMENT	TYPE OF WORK	NPV (as at 1 January 2009)	TIMING OF WORKS (YEAR)
PIPSD70999	BS01_GPT_1	Brendale / Strathpine	GPT	\$195,116	2011

4.7 Stormwater Infrastructure Costs by Catchment

The distribution of the costs of existing and future planned infrastructure works apportioned between existing and future development is demonstrated in Table 4.7A below. The level of future development contribution towards the total cost of the stormwater infrastructure network per catchment is highlighted in the table.

The proportion of future infrastructure expenditure anticipated to be collected from future development after 01 January 2009 is equivalent to 39.4% without giving regard to the capping regime. The remaining 61.6% of future infrastructure costs will be funded directly by Council so that costs associated with augmentations within the existing network to address the DSS are not passed to proponents of development approved after 01 January 2009.

Table 4.7A – Future Stormwater Infrastructure Costs by Catchment allocated between existing and future demand in NPV as at 01 January 2009

Catchment	Quantity Existing	Quantity Future	Total Quantity	Quality Existing	Quality Future	Total Quality	Est. % funding rate ¹
Albany Creek	\$0	\$0	\$0	\$10,139,665	\$528,738	\$10,668,403	5.0%
Branch Creek	\$206,233	\$260,710	\$466,943	\$6,634,539	\$7,911,776	\$14,546,315	54.4%
Brendale Strathpine	\$0	\$0	\$0	\$1,549,906	\$686,706	\$2,236,612	30.7%
BS01	\$6,329,757	\$3,549,620	\$9,879,378	\$118,797	\$76,319	\$195,116	36.0%
Cabbage Tree Creek	\$292,904	\$55,961	\$348,865	\$10,128,777	\$1,898,125	\$12,026,902	15.8%
CH01	\$620,011	\$604	\$620,615	\$0	\$0	\$0	0.1%
Conflagration Creek	\$0	\$4,965,853	\$4,965,853	\$6,360,180	\$2,907,504	\$9,267,684	55.3%
Coulthards Creek	389,407	\$3,462,511	\$4,051,918	\$3,772,296	\$1,076,682	\$4,848,977	53.6%
Dayboro Village	\$0	\$0	\$0	\$3,657,350	\$1,993,948	\$5,651,298	35.3%
Eatons Hill/Draper	\$0	\$0	\$0	\$7,979,444	\$1,806,796	\$9,786,239	18.5%
Eatons Hill/Warner	\$0	\$0	\$0	\$12,742,375	\$731,848	\$13,474,224	5.4%
Four Mile Creek	\$208,712	\$1,507,736	\$1,716,449	\$23,102,594	\$7,037,014	\$30,139,608	26.8%
Freshwater Creek	\$18,062	\$4,522,492	\$4,540,554	\$12,404,992	\$35,264,691	\$47,669,684	76.2%
FW01	\$5,074,364	\$548,971	\$5,623,335	\$0	\$0	\$0	9.8%
FW02	\$643,081	\$392,265	\$1,035,346	\$0	\$0	\$0	37.9%
FW03	\$1,656,544	\$87,028	\$1,743,573	\$0	\$0	\$0	5.0%
Griffin	\$666,153	\$1,702,650	\$2,368,804	\$11,671,055	\$12,272,840	\$23,943,894	53.1%
Kedron Brook	\$2,338,282	\$95	\$2,338,376	\$10,063,747	\$374	\$10,064,121	0.0%
Kingfisher Creek	\$169,575	\$8,457	\$178,032	\$9,399,303	\$468,727	\$9,868,030	4.7%
North Pine	\$3,201,773	\$3,121,782	\$6,323,555	\$42,750,646	\$8,330,287	\$51,080,933	19.9%
One Mile Creek	\$1,526,374	\$1,791,869	\$3,318,243	\$24,821,054	\$5,424,200	\$30,245,254	21.5%
P01	\$4,443,768	\$2,395	\$4,446,163	\$0	\$0	\$0	0.1%
Petrie	\$0	\$182,545	\$182,545	\$12,854,438	\$523,400	\$13,377,838	5.2%
Saltwater Creek	\$2,074,002	\$47,195,283	\$49,269,285	\$41,398,765	\$83,516,875	\$124,915,639	75.0%
Samford Downs	\$0	\$0	\$0	\$10,061,583	\$2,212,924	\$12,274,507	18.0%
Samford Village	\$0	\$0	\$0	\$244,179	\$31,454	\$275,632	11.4%
Sandy Creek	\$0	\$0	\$0	\$9,717,213	\$501,350	\$10,218,563	4.9%
Sideling Creek	\$0	\$0	\$0	\$2,420,060	\$11,412	\$2,431,472	0.5%
South Pine	\$4,379,378	\$2,177,243	\$6,556,621	\$134,742,686	\$43,364,013	\$178,106,699	24.7%
Todds Gully	\$1,418,469	\$386,912	\$1,805,380	\$9,405,437	\$2,617,760	\$12,023,197	21.7%
Wongam Creek	\$0	\$0	\$0	\$8,626,401	\$4,132,238	\$12,758,639	32.4%
Total	\$35,856,850	\$75,922,982	\$111,779,832	\$426,767,480	\$225,327,999	\$652,095,479	39.4%

Table 4.7B – Future Stormwater Infrastructure cost allocation between existing and future demand in NPV as at 01 January 2009

Allocation	Infrastructure Cost		
	Quantity	Quality	Total
Existing Development	\$35,856,850	\$426,767,480	\$462,624,330
Future Development	\$75,922,982	\$225,327,999	\$301,250,981
TOTAL	\$111,779,832	\$652,095,479	\$763,875,311

¹ Future Infrastructure Costs are allocated to both existing and future demand. This value represents the estimated level of funding for future infrastructure to be met by Contributions in each catchment. The remainder of funding for the planned works is to be met by Council's own funds, and may include sources such as general revenue, grants and subsidies and Developer Contributions collected under superseded policies (representing existing demand). The actual level of contribution is dependent on actual growth and its timing.

Schedule A: Demand Factors

Table A – Demand Factors for Stormwater Infrastructure Contributions

LAND ZONE	Contributing Factor (CF _{QAL} /Ha)	Contributing Factor (CF _{QTY} /Ha)
Central Business	1.90	0.19
Commercial	1.74	0.19
Extractive Industry	0.87	0.06
General Industry	1.90	0.19
Local Business	1.74	0.19
Neighbourhood Facilities	1.63	0.19
Park Residential	0.58	0.06
Residential A (lots ≥600m ²) and Future Urban	1.32	0.13
Residential A (lots <600m ²)	1.52	0.15
Residential B	1.63	0.19
Rural (lots no less than 16 Ha)	0.00	0.00
Rural Residential and Rural other than above	0.25	0.06
Service Industry	1.74	0.19
Special Facilities	*	*
Special Purposes	*	*
Special Residential (Urban)	1.32	0.13
Special Residential (Non-Urban)	0.58	0.06
Sports and Recreation	*	*
Home Industry	1.32	0.19
Urban Village	1.90	0.19
Village Centre	1.74	0.19
Special Development	*	*

The applicable Charge Area in (Ha) is to be calculated exclusive of any area under the Q100 level for River Level contributions, and any area under the Q50 level for Creek Level Contributions.

NOTE:

The demand factors/contribution factors listed in Table A above apply to all development applications for reconfiguring a lot (RAL) or a material change of use (MCU) corresponding to the actual zone of the land.

If the development proposal incorporates a land use which is not specifically listed as "consistent" for the zone of the land in chapter 3 of the *PineRiversPlan*, the demand factor for that component of the development will be based on the demand factor for any zone in which that land use and the majority of the other uses comprising the development are listed as "consistent".

* From chapter 3 of the *PineRiversPlan*, determine what zone, in which the proposal would constitute a "consistent" land use and apply the demand factor corresponding to that zone. (Where more than one zone would apply, the most appropriate zone in that context is to be used.)

Schedule B: Infrastructure Contribution Rates

Table B – Stormwater Infrastructure Contribution Rates

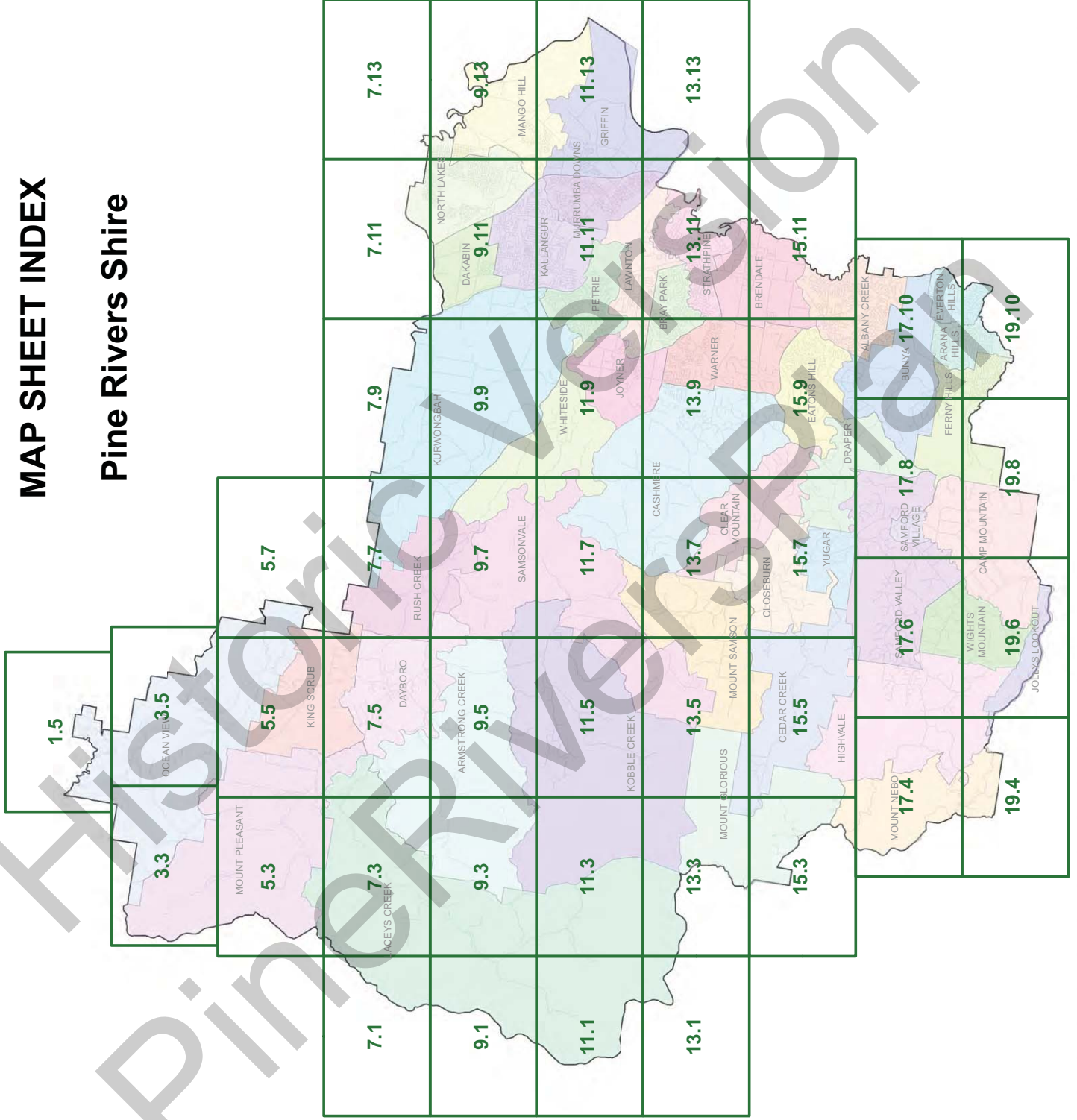
CATCHMENT	(ICR/ECA _{QAL})	(ICR/ECA _{QTY})
RIVER CATCHMENT		
South Pine	\$31,125	\$9,765
North Pine	\$15,270	\$41,683
CREEK CATCHMENT		
South Pine River Catchment		
Four Mile Creek	\$34,754	\$55,843
Coulthards Creek	\$14,565	\$333,902
Brendale/Strathpine	\$9,030	\$0
Conflagration Creek	\$16,829	\$206,392
Eatons Hill/Warner	\$49,362	-
Eatons Hill/Draper	\$23,158	-
Albany Creek	\$60,594	\$0
Sandy Creek	\$34,142	\$0
Kingfisher Creek	\$47,729	\$8,742
Wongam Creek	\$47,551	\$0
Samford Village	\$3,831	\$0
Samford Downs	\$35,535	\$0
Branch Creek	\$76,891	\$16,672
North Pine River Catchment		
Todds Gully	\$21,758	\$32,334
One Mile Creek	\$56,264	\$116,466
Petrie	\$20,861	\$60,039
Sideling Creek	\$44,448	\$0
Griffin	\$55,147	\$63,732
Dayboro Village	\$25,854	\$0
Coastal Creeks		
Cabbage Tree Creek	\$23,199	\$6,715
Kedron Brook	\$20,103	\$47,012
Freshwater Creek	\$71,449	\$62,711
Saltwater Creek	\$66,659	\$279,250
LOCAL CATCHMENT		
Coulthards CH01	\$0	\$299,429
Brendale Strathpine BS01	\$1,927	\$988,294
Petrie P01	\$0	\$1,187,820
Freshwater FW01	\$0	\$741,822
Freshwater FW02	\$0	\$409,579
Freshwater FW03	\$0	\$450,977

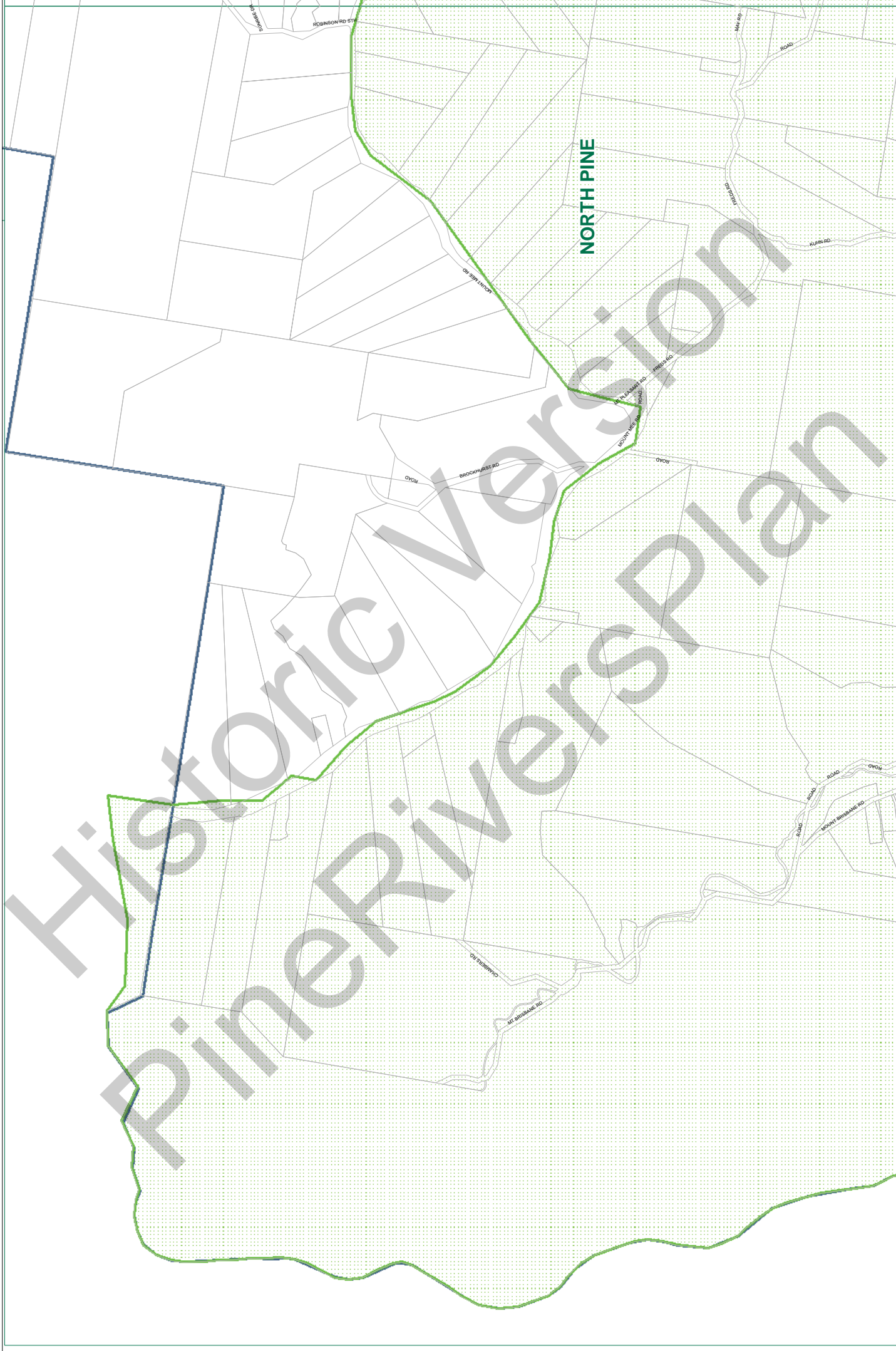
Schedule C: Service Catchments

Historic Version
PineRiversPlan

MAP SHEET INDEX

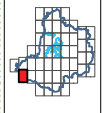
Pine Rivers Shire





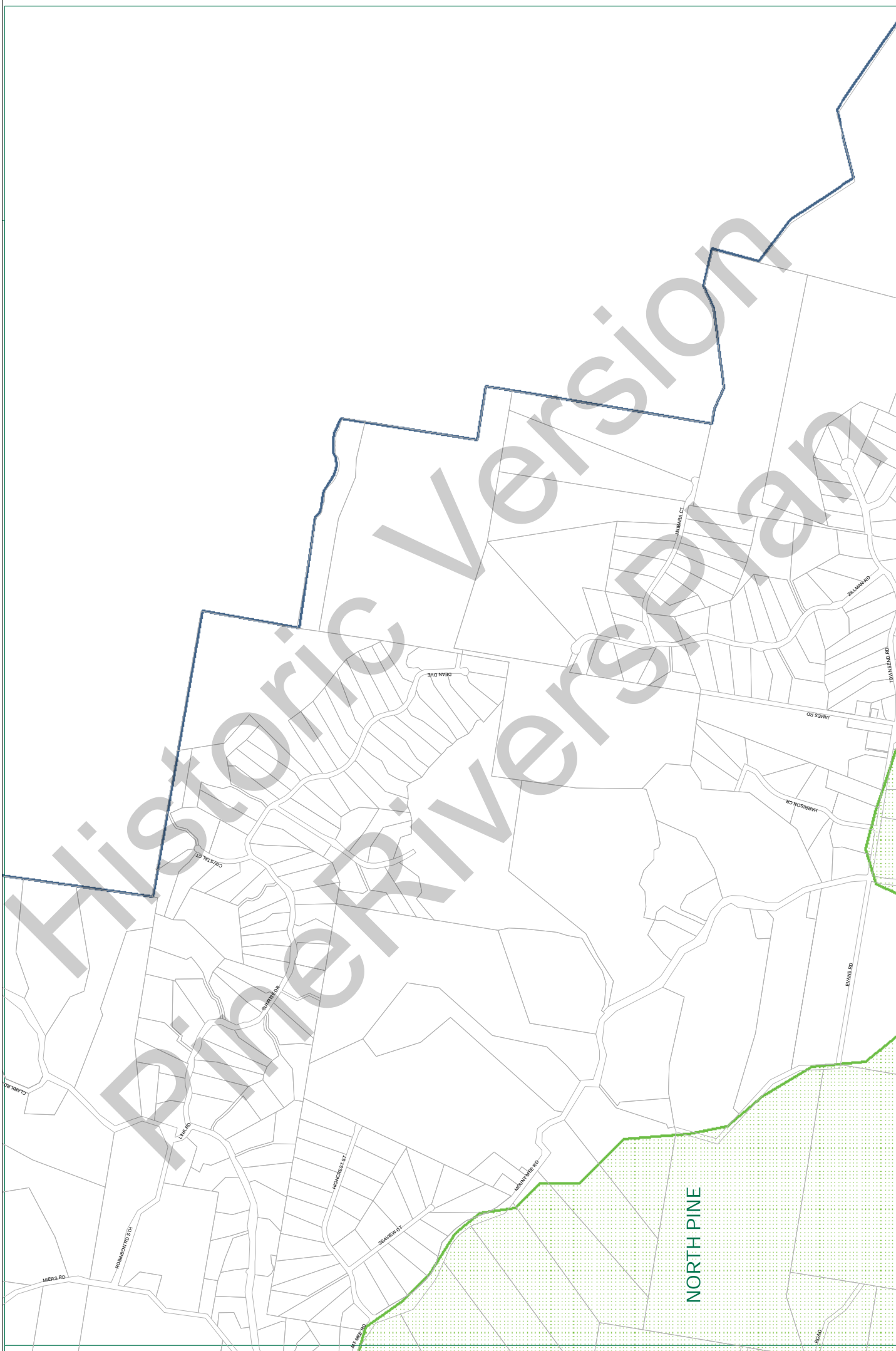
PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

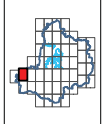
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MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER SERVICE CATCHMENTS
 Map Number 3.5

PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009

1.5	3.3	3.5	5.3	5.5	5.7
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Stormwater Local Catchments Shire Border

Stormwater Creek Catchments

Stormwater River Catchments

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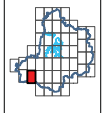
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NORTH PINE



PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

3.3	3.5
5.3	5.5
7.1	7.3
	7.5



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

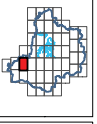
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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

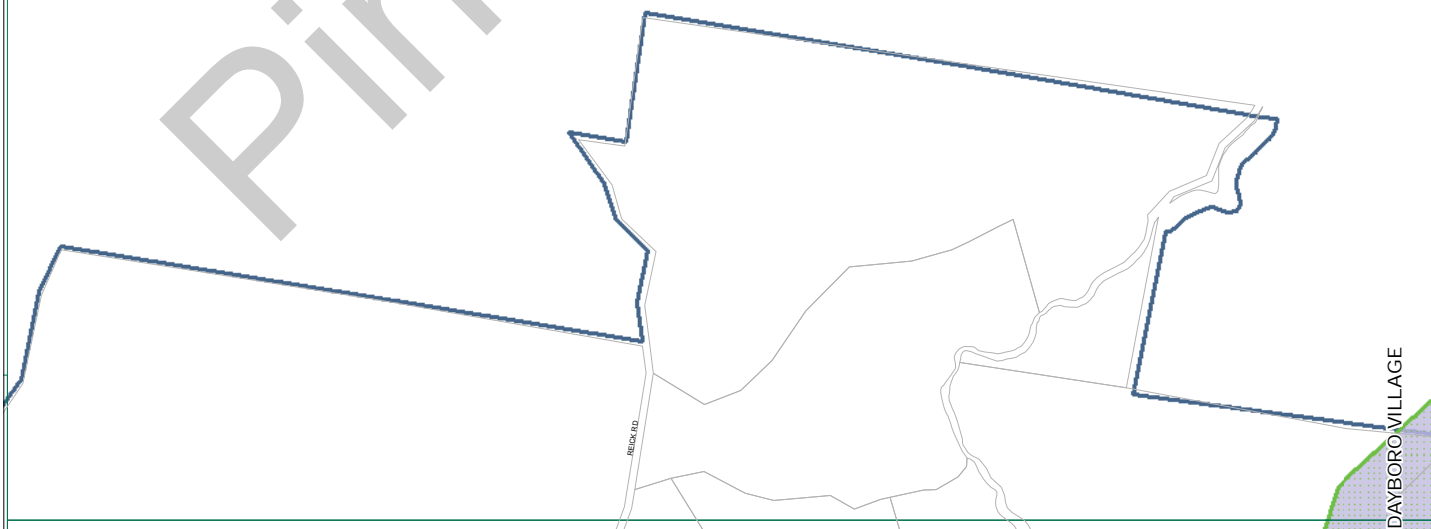


3.3	3.5	3.7
5.3	5.5	5.7
7.3	7.5	7.7

PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER SERVICE CATCHMENTS
 Map Number 5.5

Historic Version Pine Rivers Plan

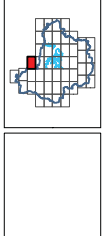


DAYBORO VILLAGE

0 62.5 125 250 375 500
Metres
Scale
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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



5.7	7.7	7.9
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PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

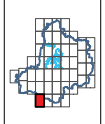
MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS
Map Number 5.7



MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS
Map Number 7.1

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

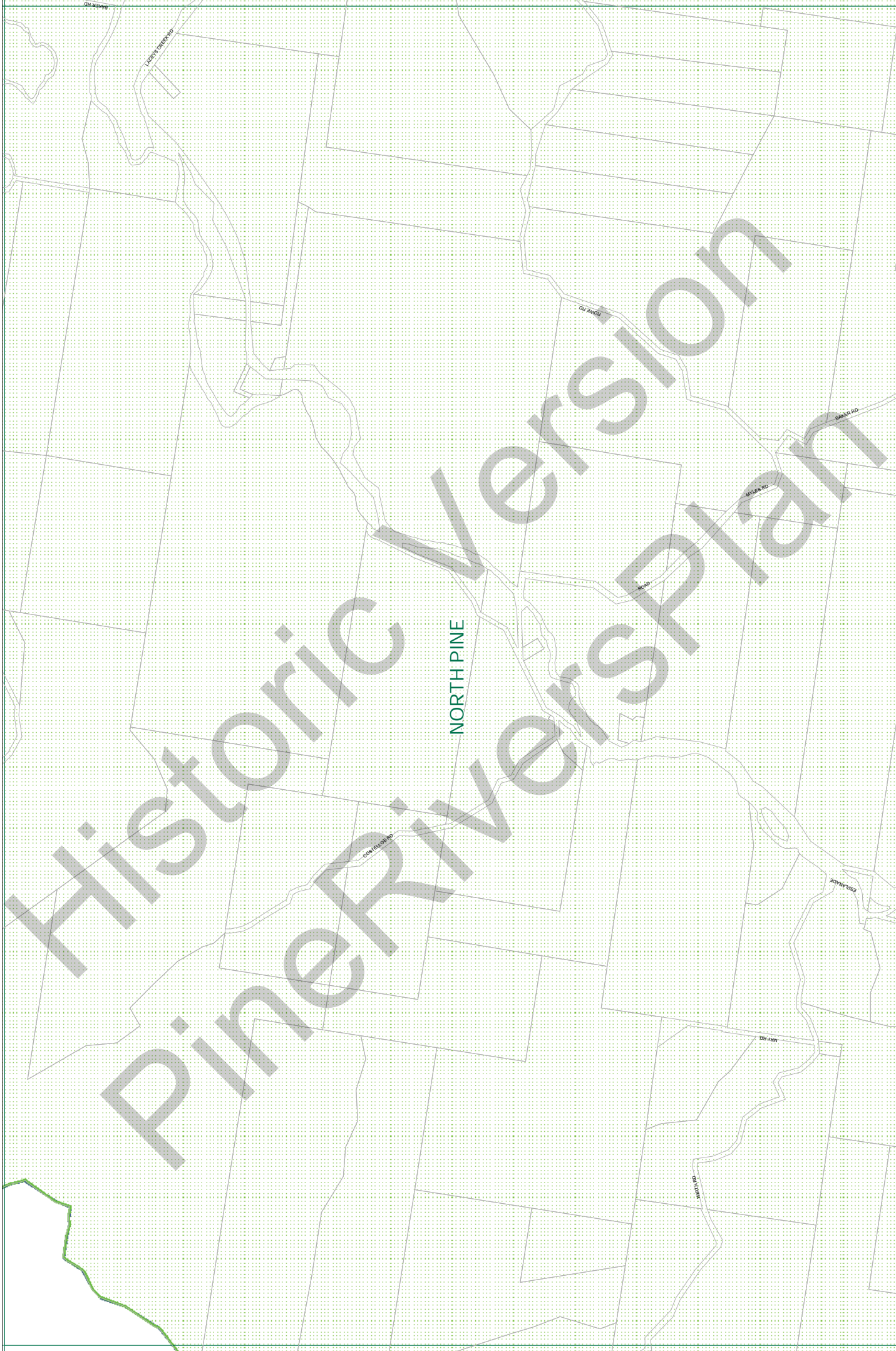
5.3	5.5
7.1	7.3
9.1	9.3
	9.5



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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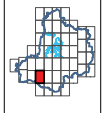


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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



7.1	5.3	5.5
9.1	7.3	7.5
	9.3	9.5

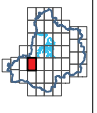
PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
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STORMWATER
EFFECTIVE FROM 29 October 2009



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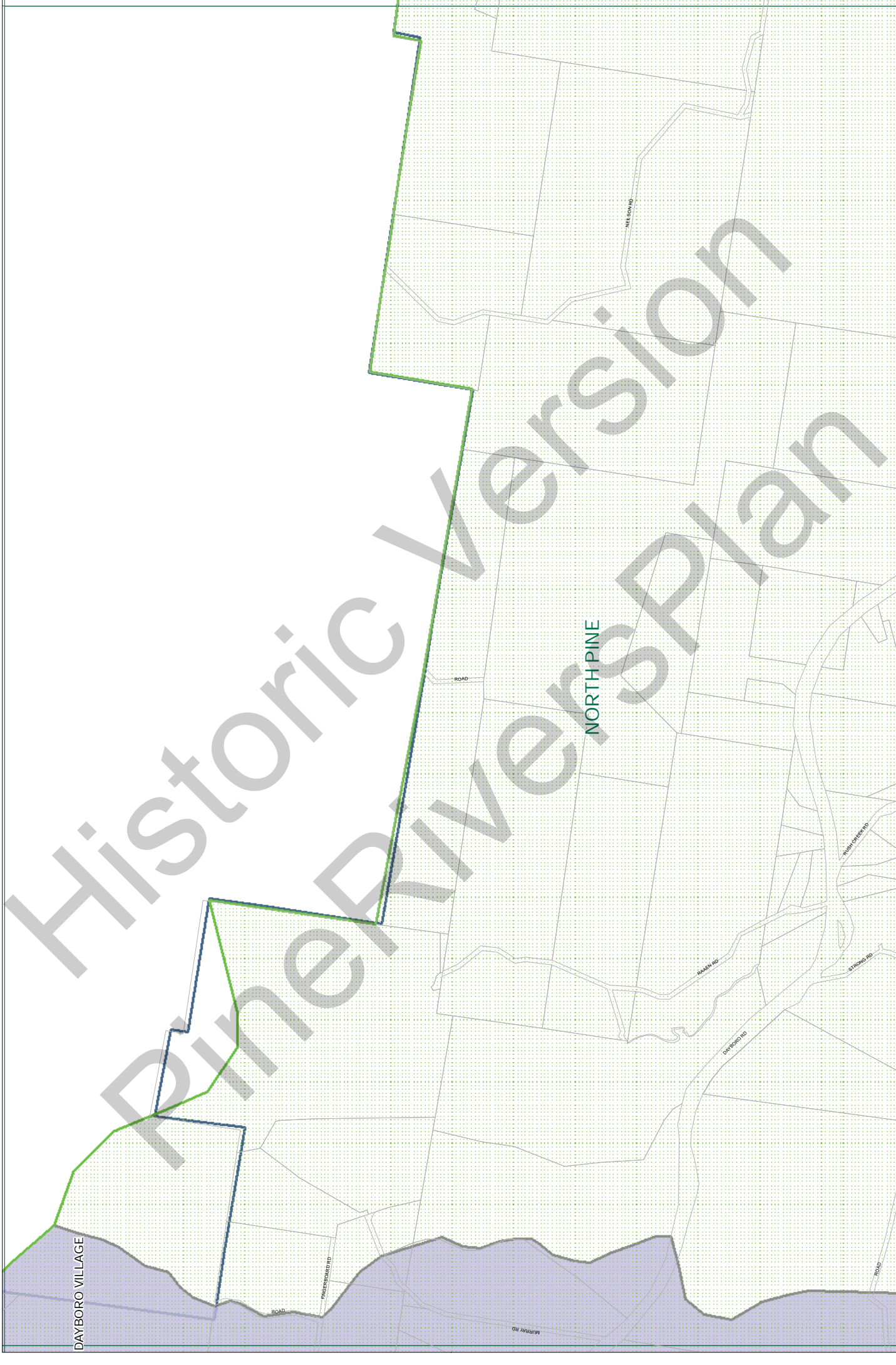
Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



5.3	5.5	5.7
7.3	7.5	7.7
9.3	9.5	9.7

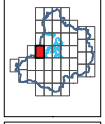
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 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
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MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER SERVICE CATCHMENTS
 Map Number 7.5



PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009

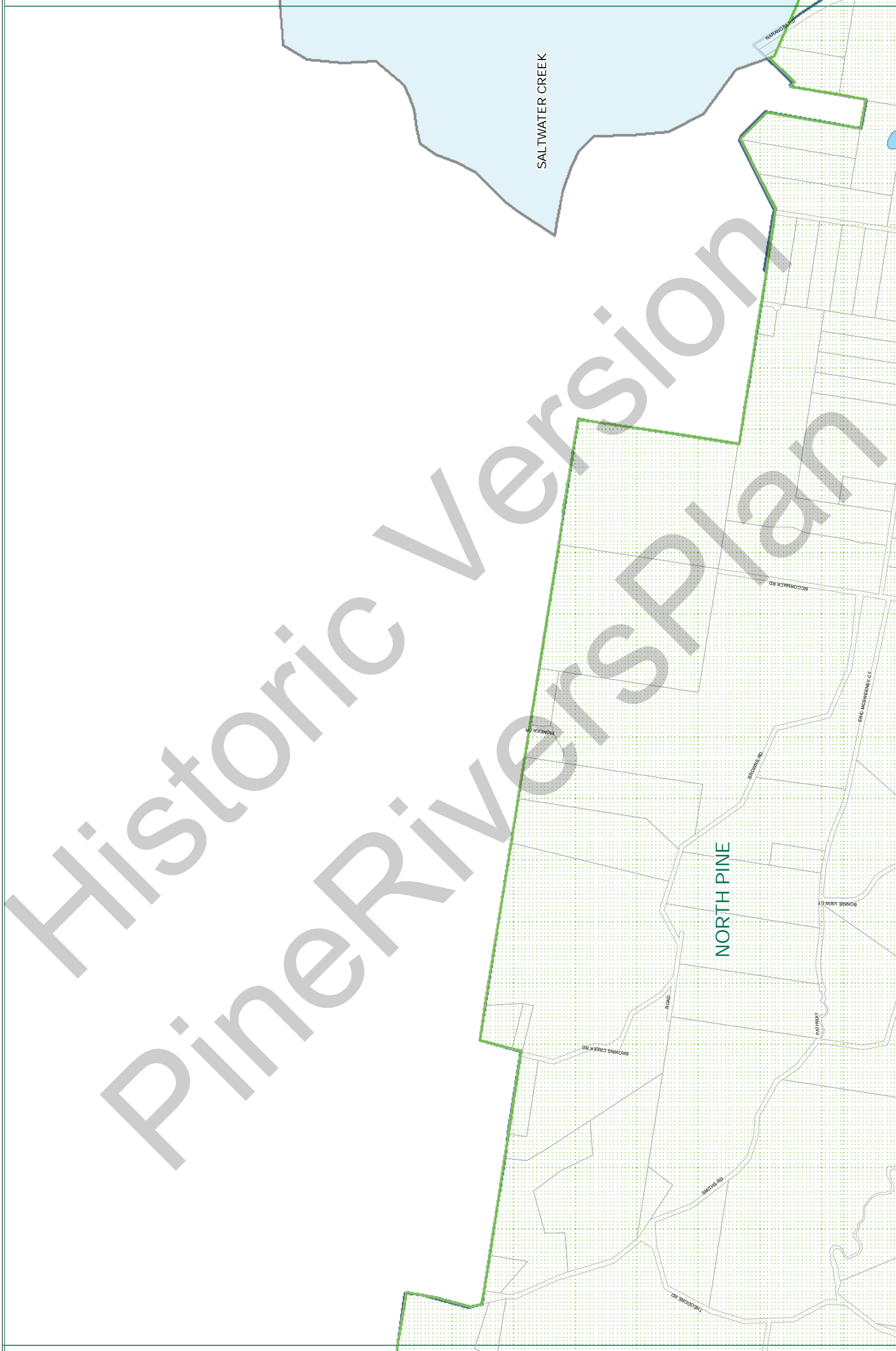
5.5	5.7	7.5	7.7	7.9
9.5	9.7	9.7	9.7	9.9



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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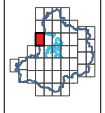
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MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS
Map Number 7.9

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

5.7	7.7	7.9	7.11
	9.7	9.9	9.11



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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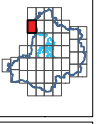
Historic Version
 Pine Rivers Plan

SALTWATER CREEK

MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER SERVICE CATCHMENTS
 Map Number 7.11

PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009

7.9	7.11	7.13
9.9	9.11	9.13



Stormwater Local Catchments Shire Border

Stormwater Creek Catchments

Stormwater River Catchments

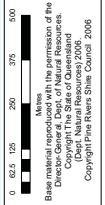
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Historic Version PineRiversPlan

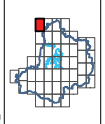
SALTWATER CREEK

14th BANK ST
GARDNER ST



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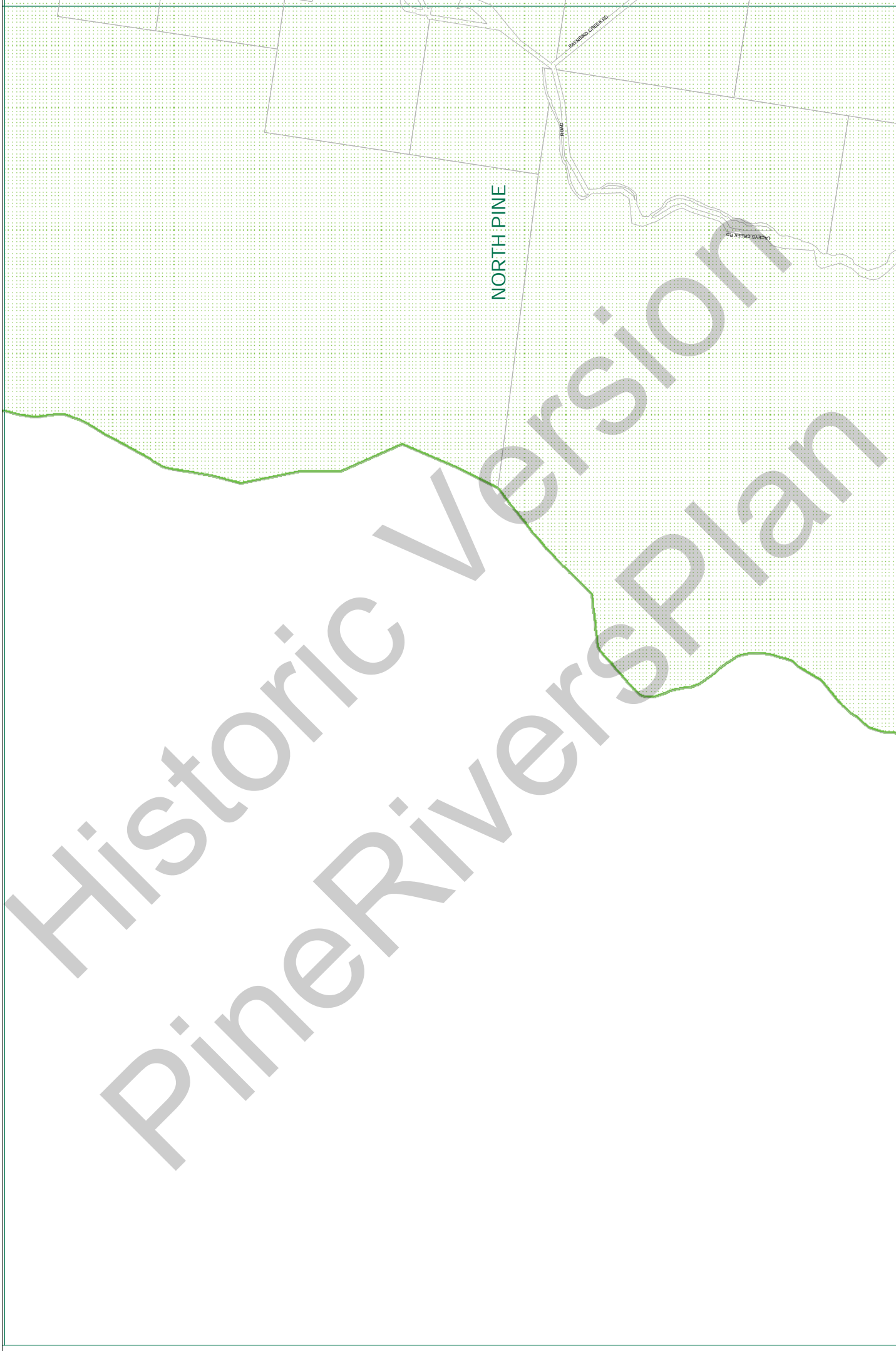
- Stormwater Local Catchments Shire Border
- Stormwater Creek Catchments
- Stormwater River Catchments



7.11	7.13
9.11	9.13

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
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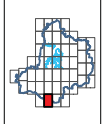
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Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS
Map Number 7.13



MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS
Map Number 9.1

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

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9.1	9.3	9.5
11.1	11.3	11.5



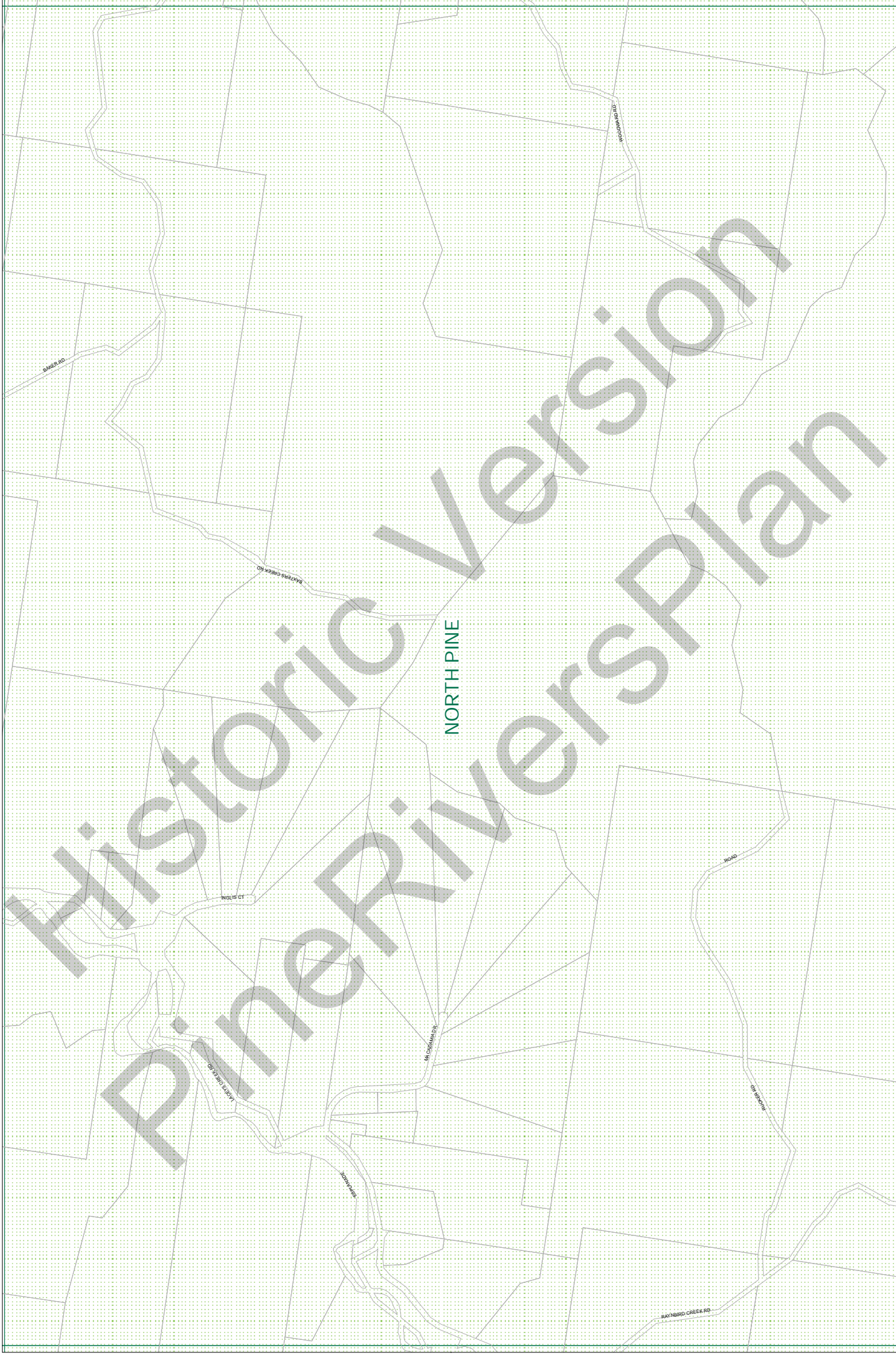
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Stormwater Creek Catchments

Stormwater River Catchments

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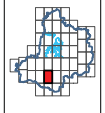
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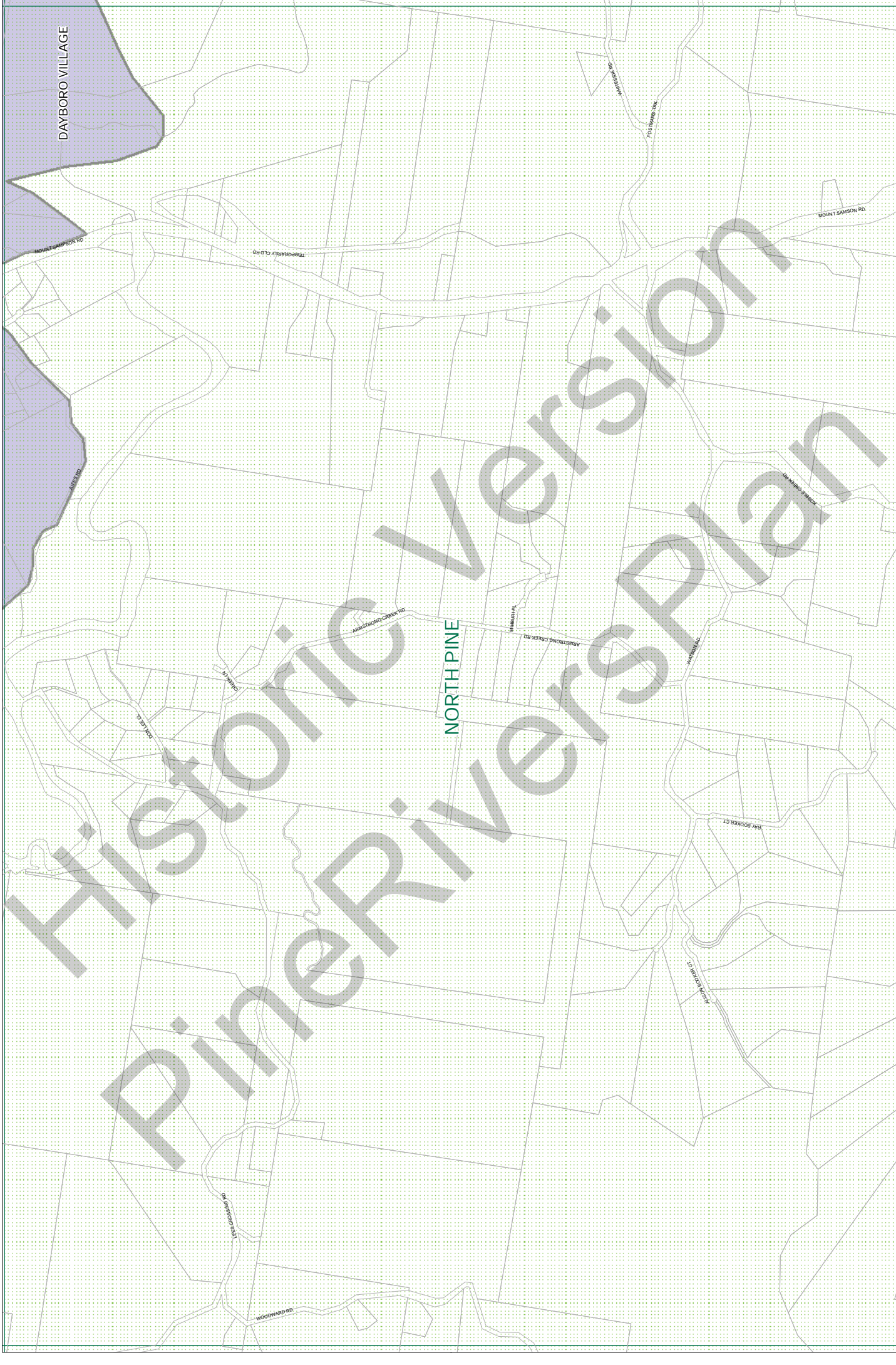
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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



7-1	7-3	7-5
9.1	9.3	9.5
11.1	11.3	11.5

PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009

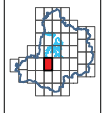


DAYBORO VILLAGE

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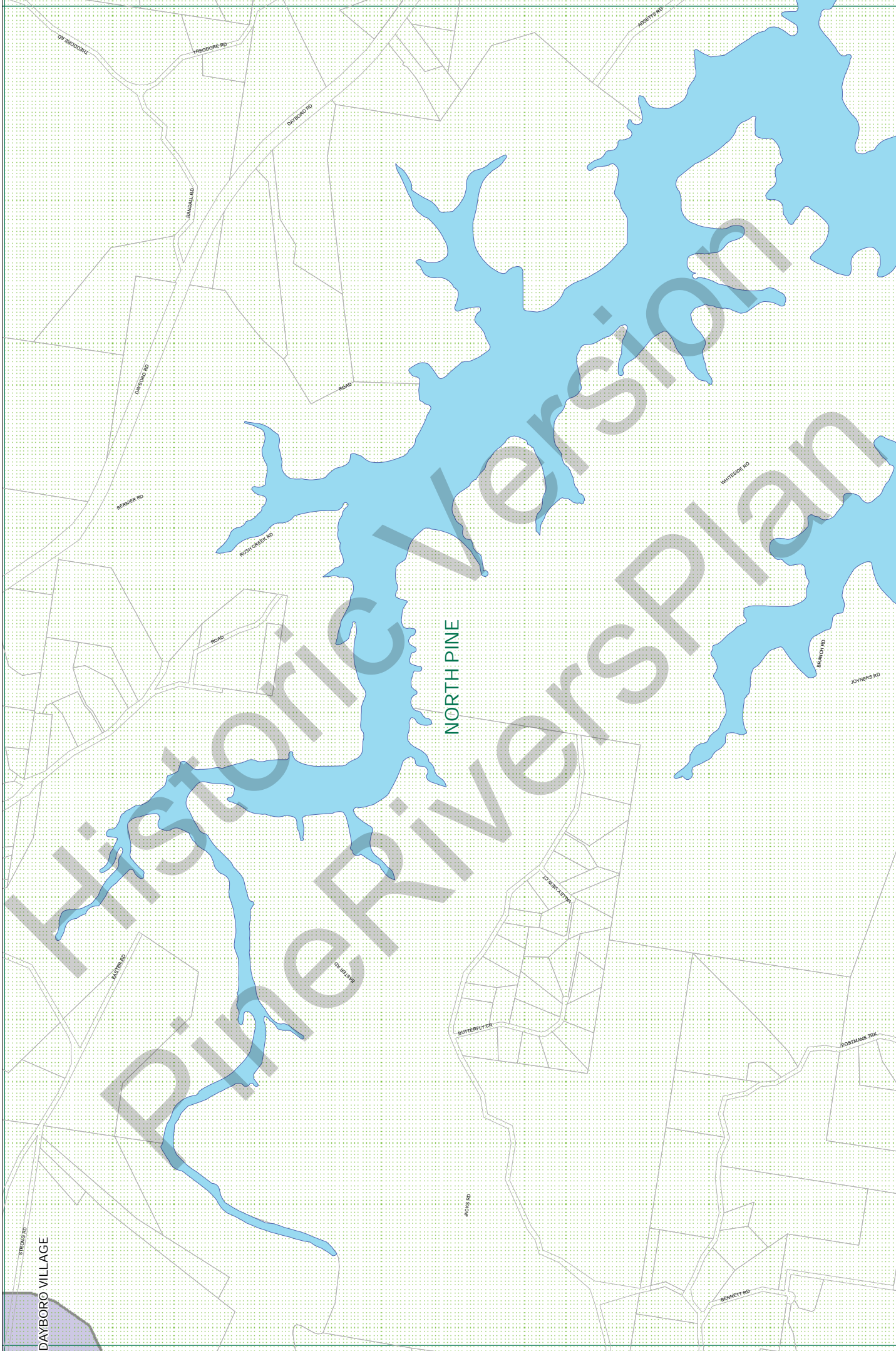
 Stormwater Local Catchments  Stormwater Creek Catchments
 Stormwater River Catchments



7.3	7.5	7.7
9.3	9.5	9.7
11.3	11.5	11.7

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
Pine River's Shire
STORMWATER SERVICE CATCHMENTS
Map Number 9.5



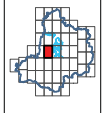
DAYBORO VILLAGE

NORTH PINE

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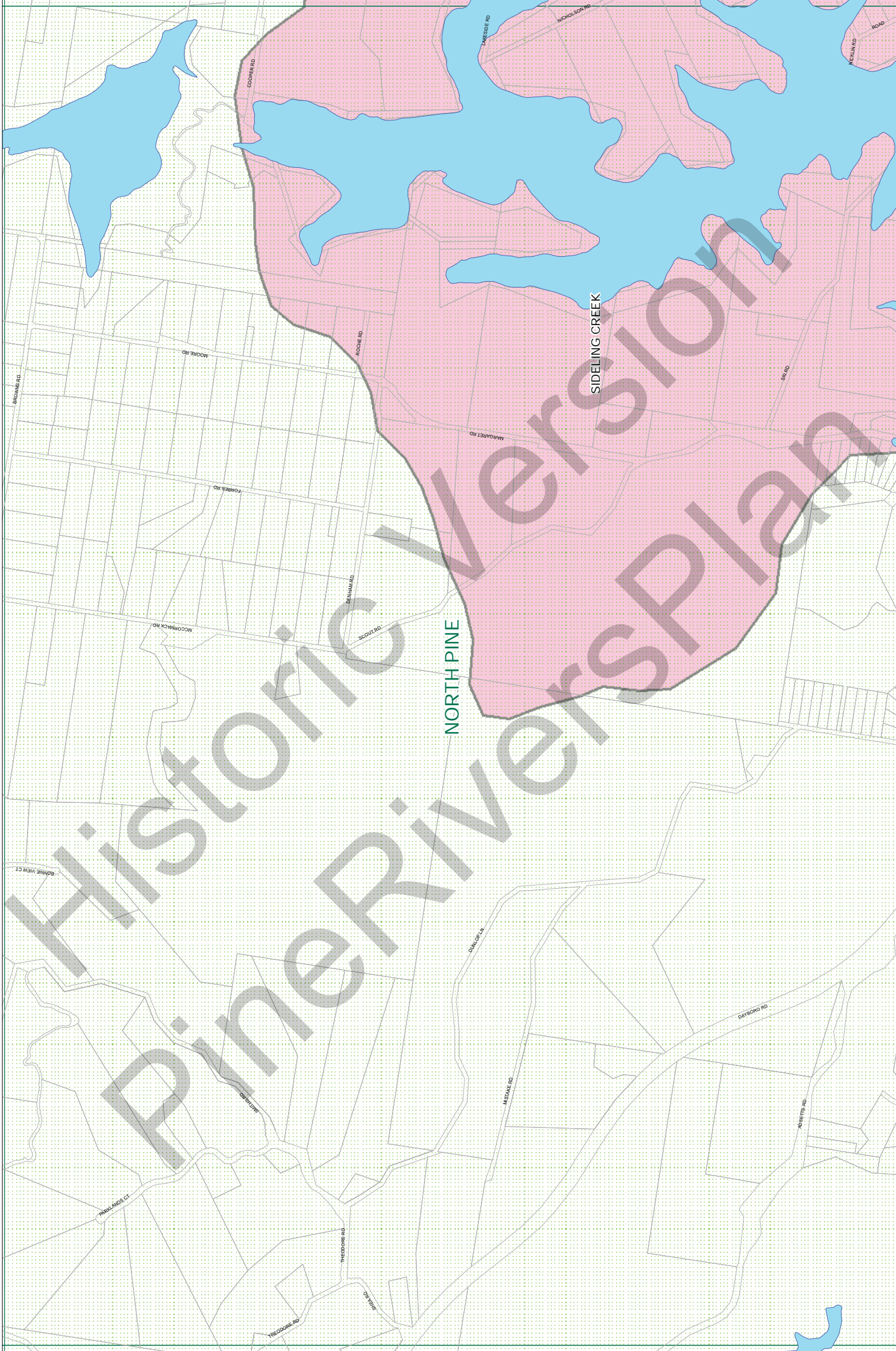
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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



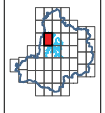
7.5	7.7	7.9
9.5	9.7	9.9
11.5	11.7	11.9

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

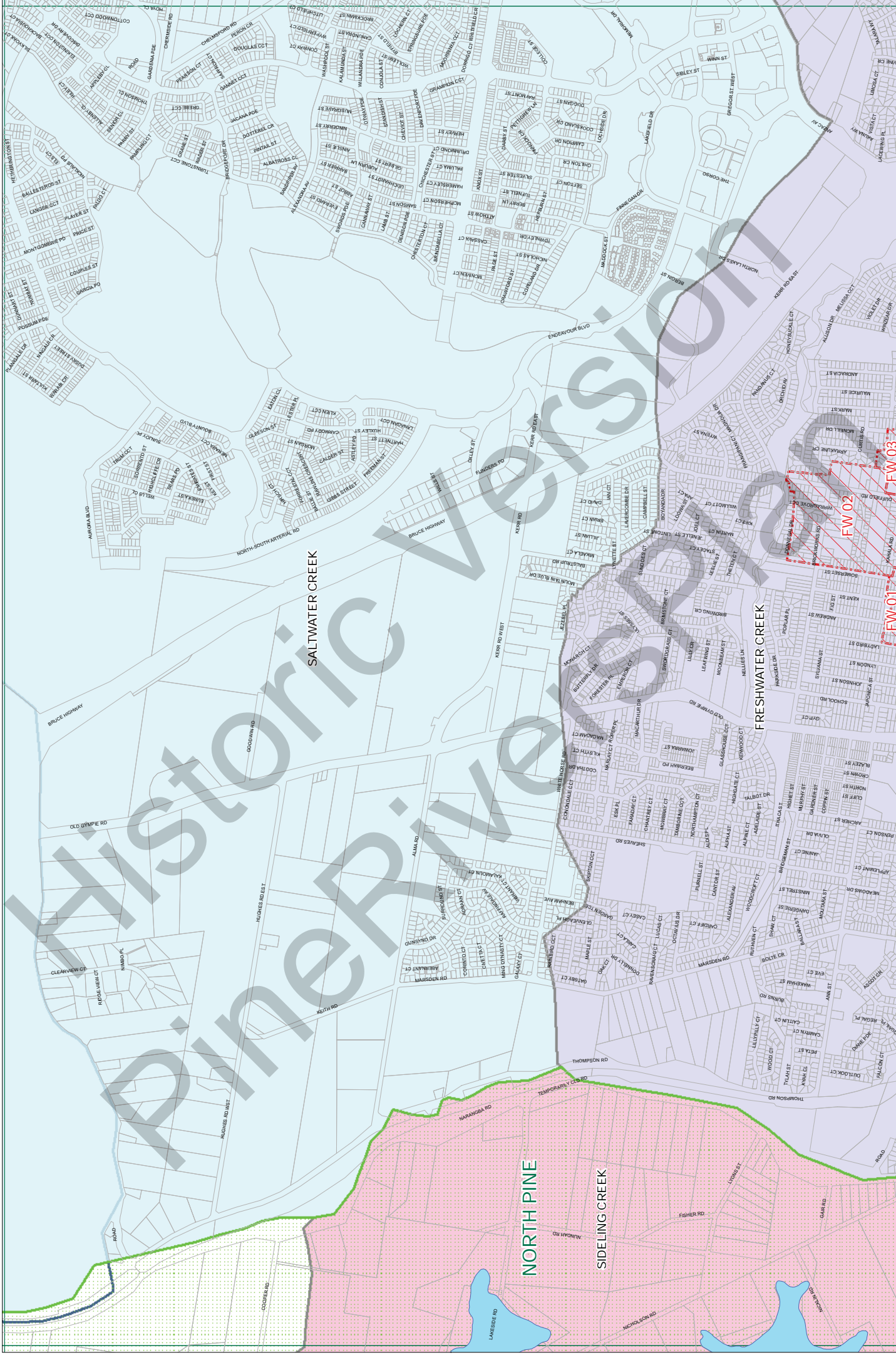
7.7	7.9	7.11
9.7	9.9	9.11
11.7	11.9	11.11



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

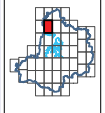
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PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

7.9	7.11	7.13
9.9	9.11	9.13
11.9	11.11	11.13



Stormwater Local Catchments Shire Border
Stormwater Creek Catchments
Stormwater River Catchments

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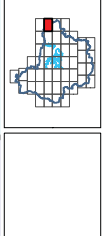


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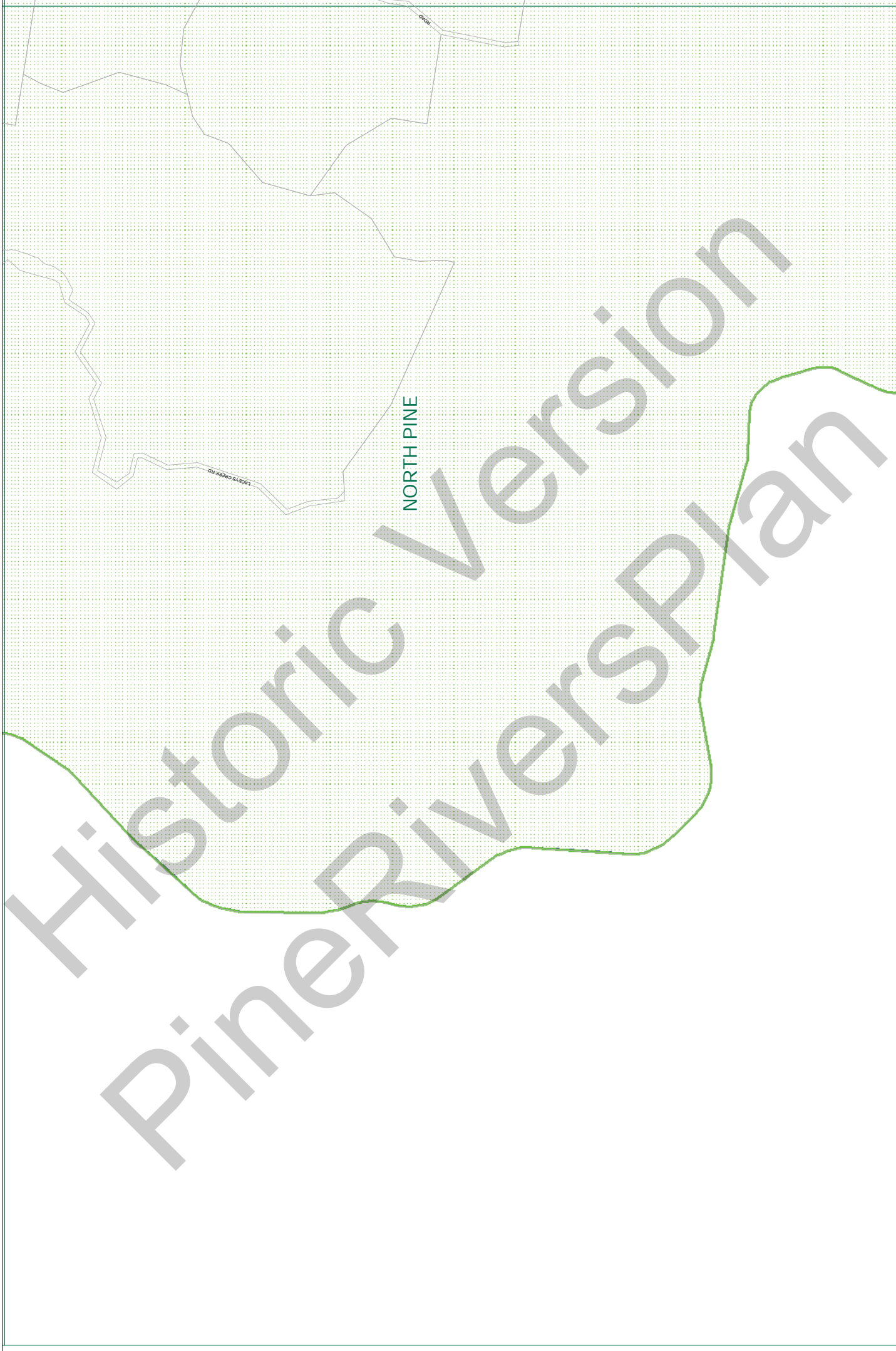
Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



7.9	7.11	7.13
9.9	9.11	9.13
11.9	11.11	11.13

PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER SERVICE CATCHMENTS
 Map Number 9.13



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0 62.5 125 200 375 500
Metres

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Stormwater Local Catchments Shire Border

Stormwater Creek Catchments

Stormwater River Catchments

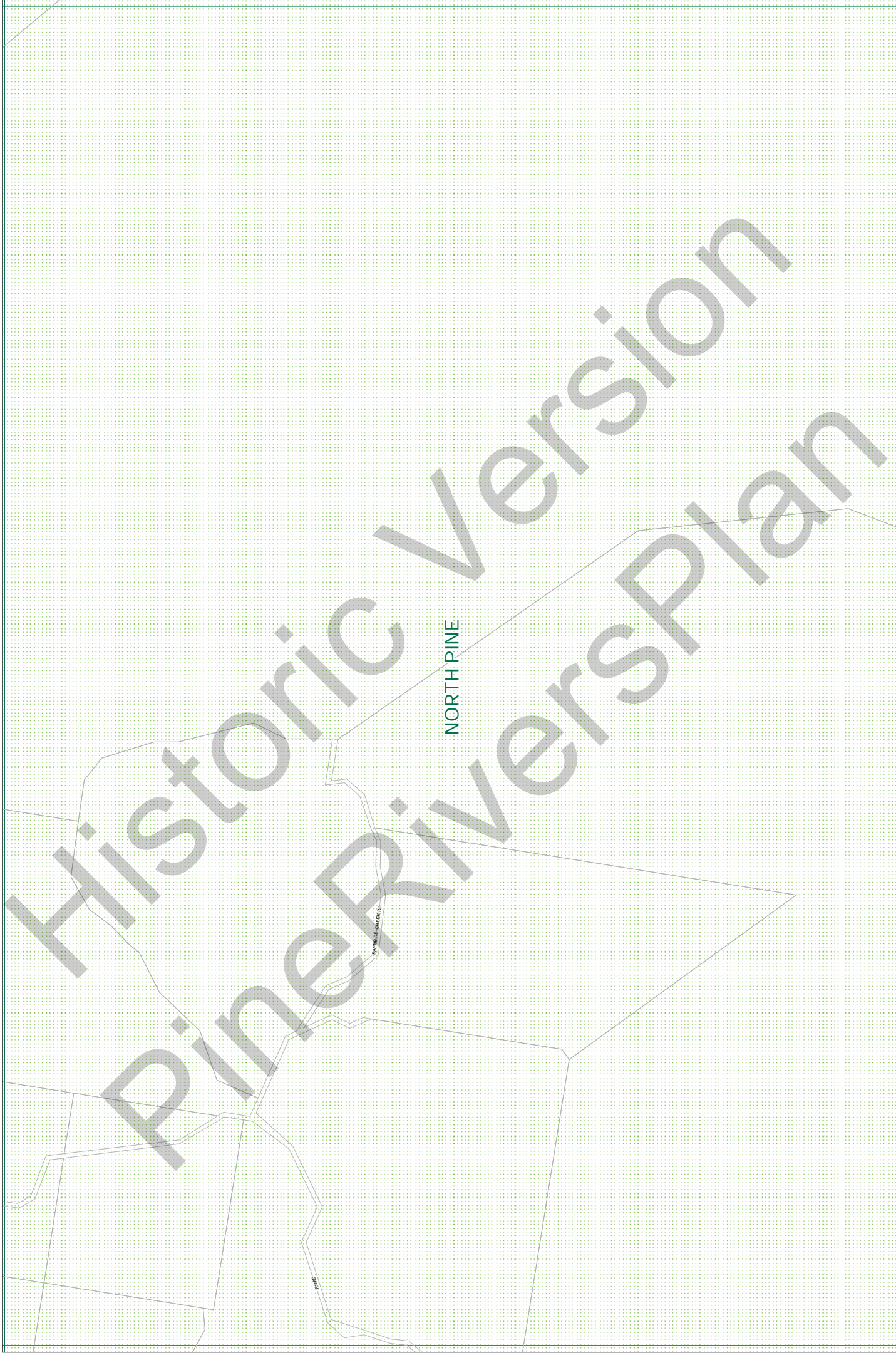


9.1 9.3 9.5
11.1 11.3 11.5
13.1 13.3

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS

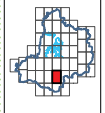
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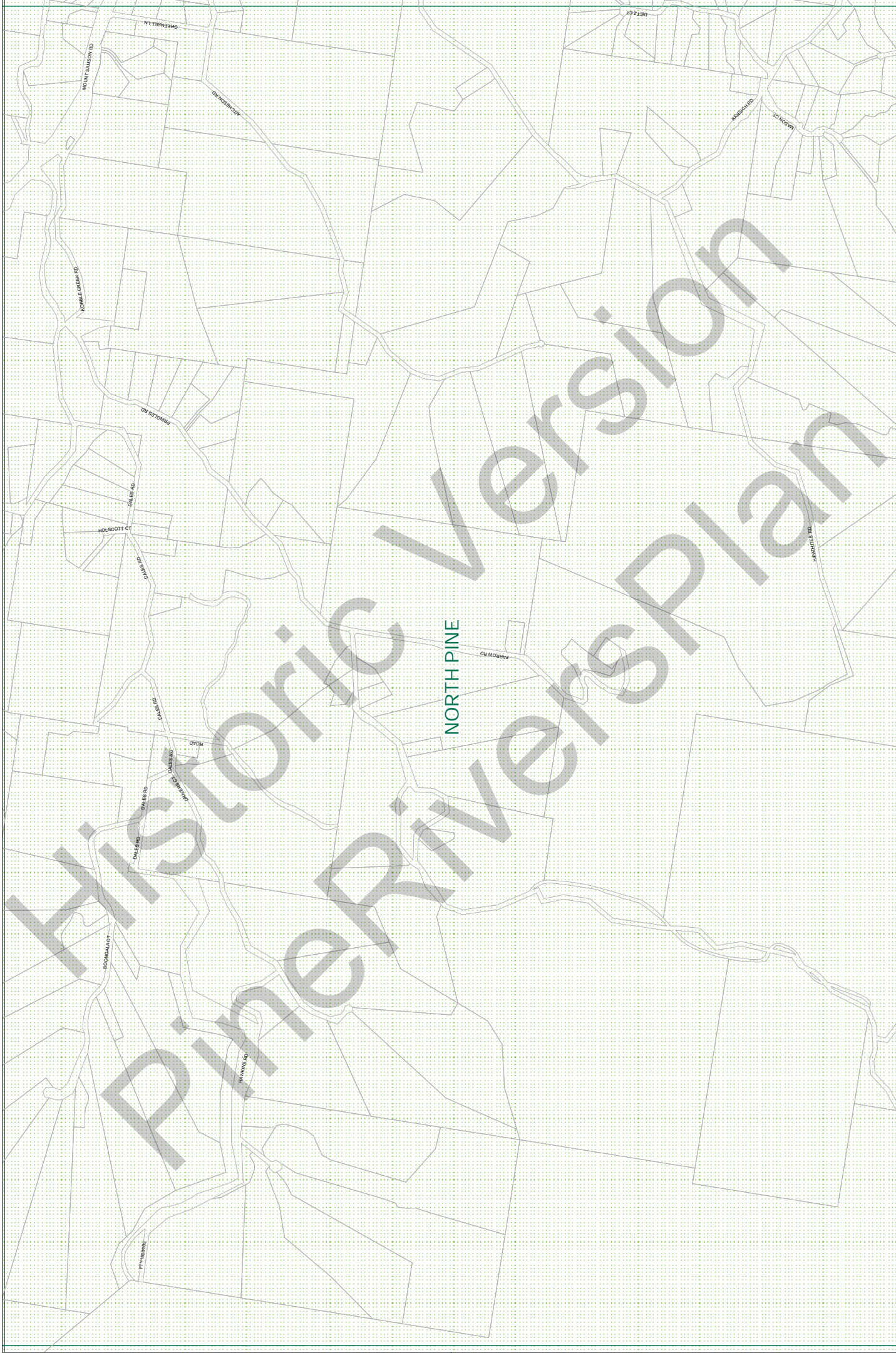
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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

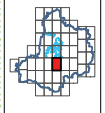


9.1	9.3	9.5
11.1	11.3	11.5
13.1	13.3	13.5

PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
EFFECTIVE FROM 29 October 2009



9.3	9.5	9.7
11.3	11.5	11.7
13.3	13.5	13.7

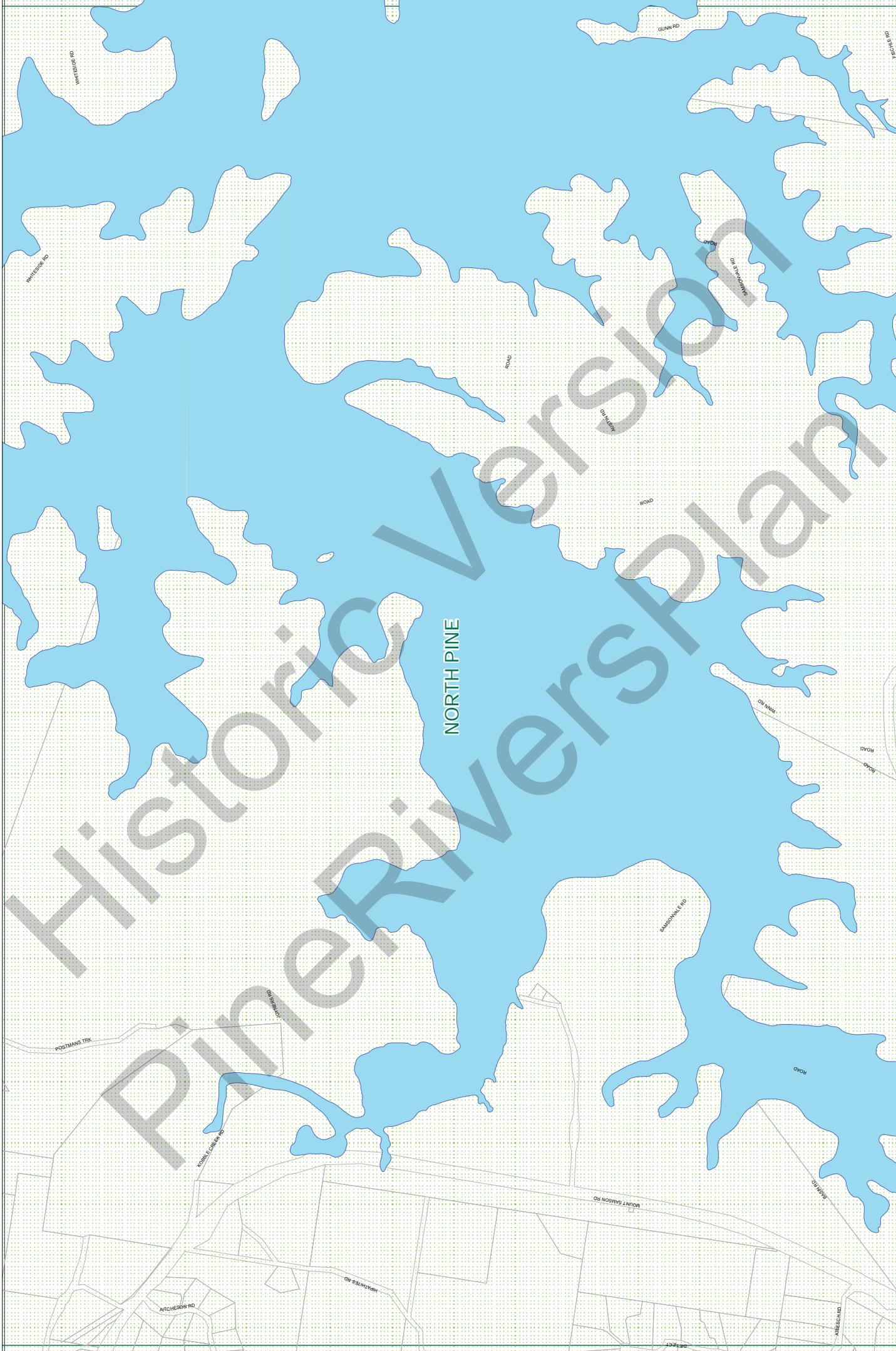


Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

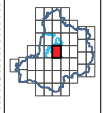
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NORTH PINE



9.5	9.7	9.9
11.5	11.7	11.9
13.5	13.7	13.9



Stormwater Local Catchments Shire Border

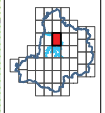
Stormwater Creek Catchments

Stormwater River Catchments

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11.7	11.9	11.11
13.7	13.9	13.11

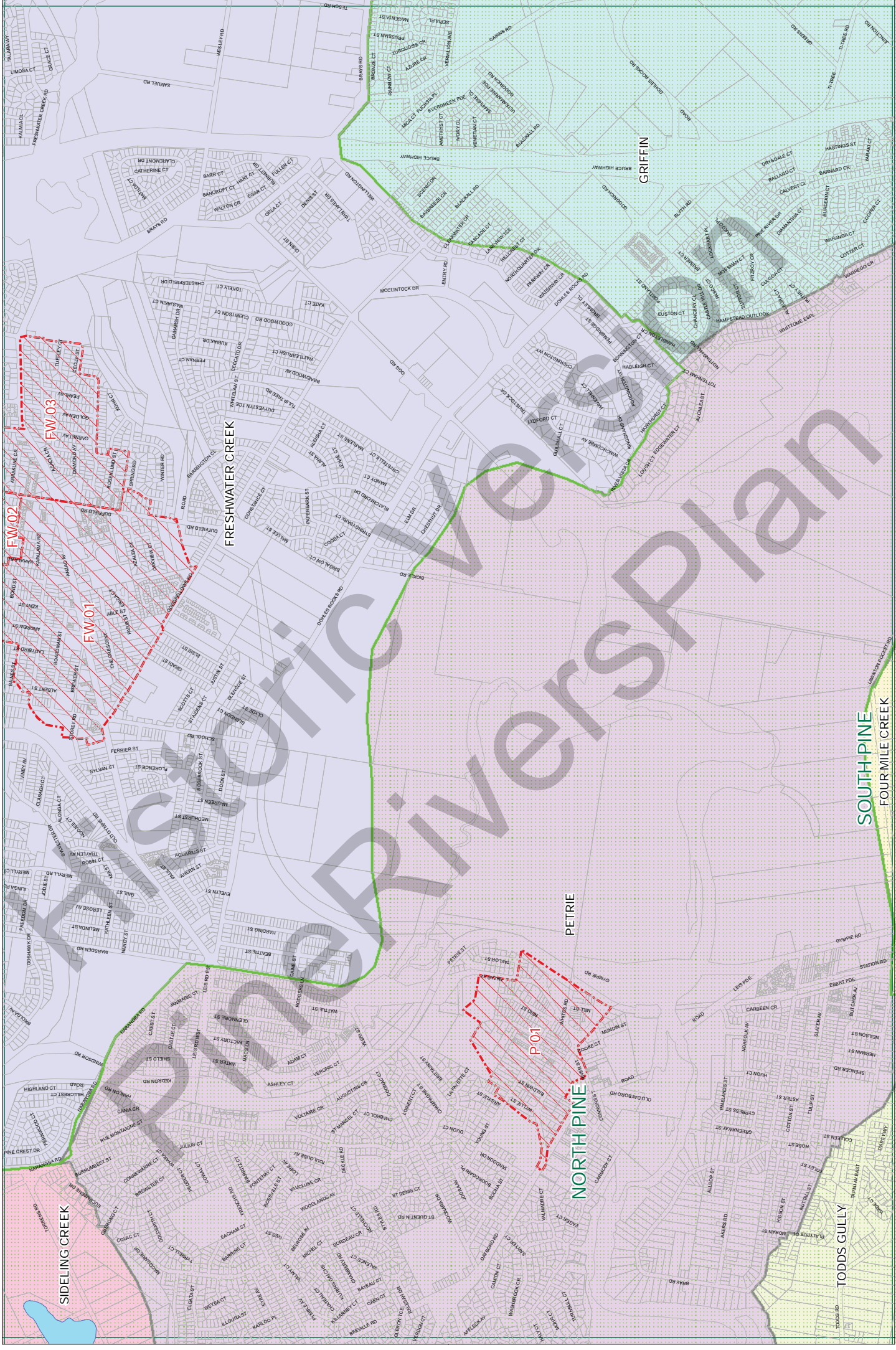


Stormwater Local Catchments Shire Border

Stormwater Creek Catchments Stormwater River Catchments

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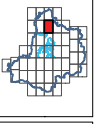
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STORMWATER SERVICE CATCHMENTS

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
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STORMWATER
EFFECTIVE FROM 29 October 2009

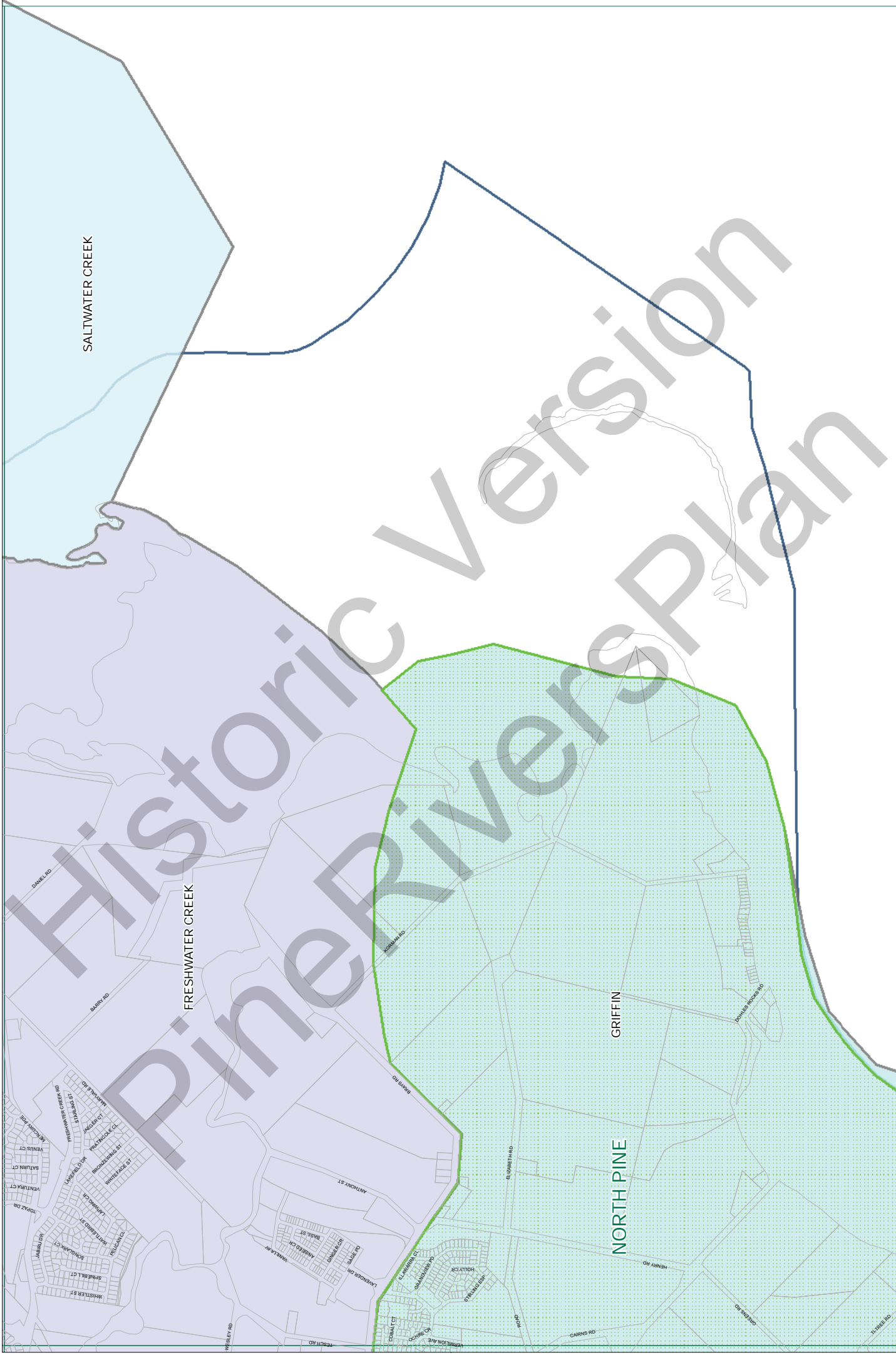
9.9	9.11	9.13
11.9	11.11	11.13
13.9	13.11	13.13



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

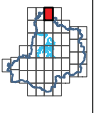
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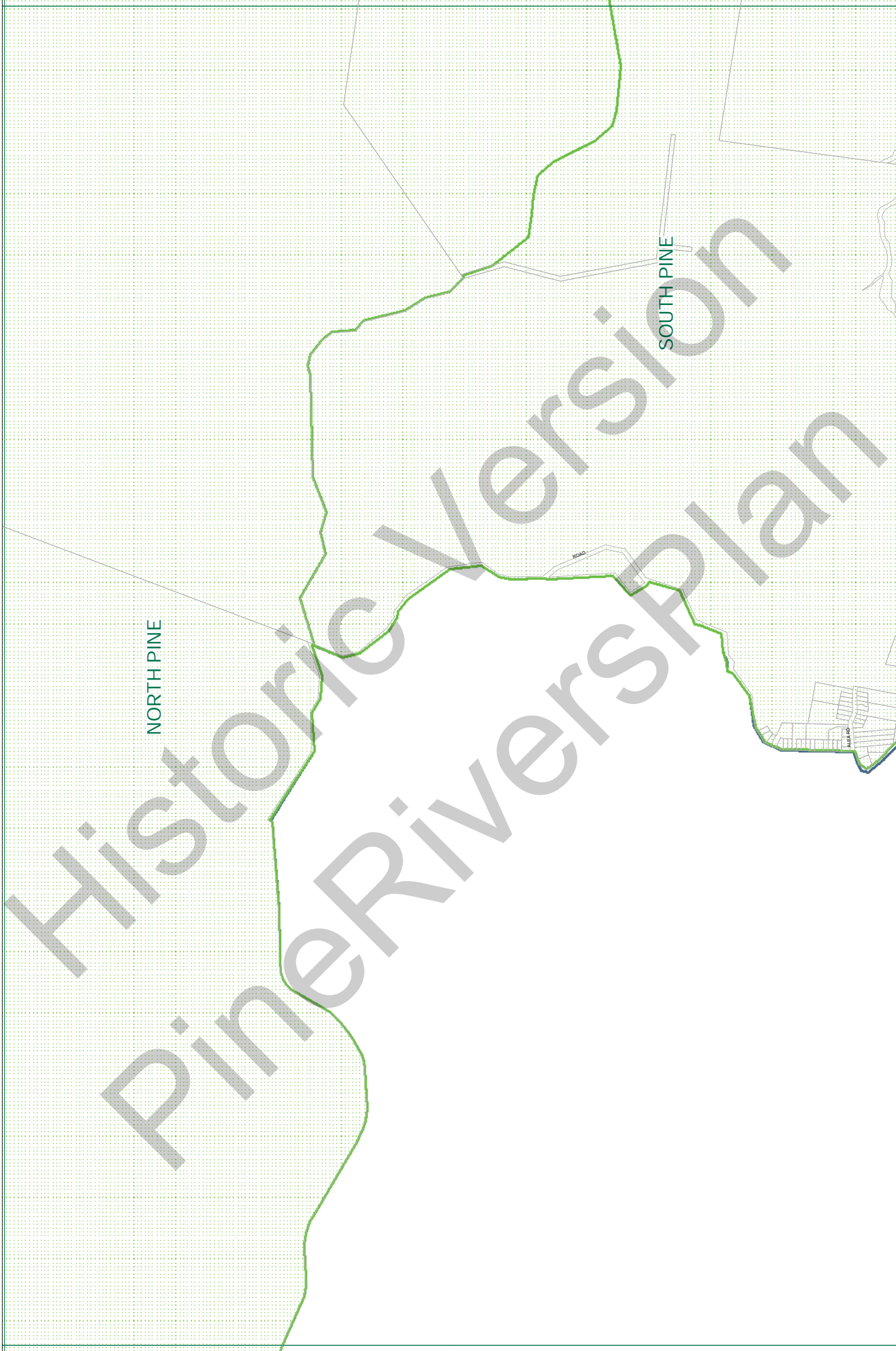
11.11	11.13
13.11	13.13



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

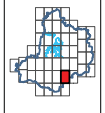
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Scale bar showing 0, 62.5, 125, 250, 375, 500 meters.



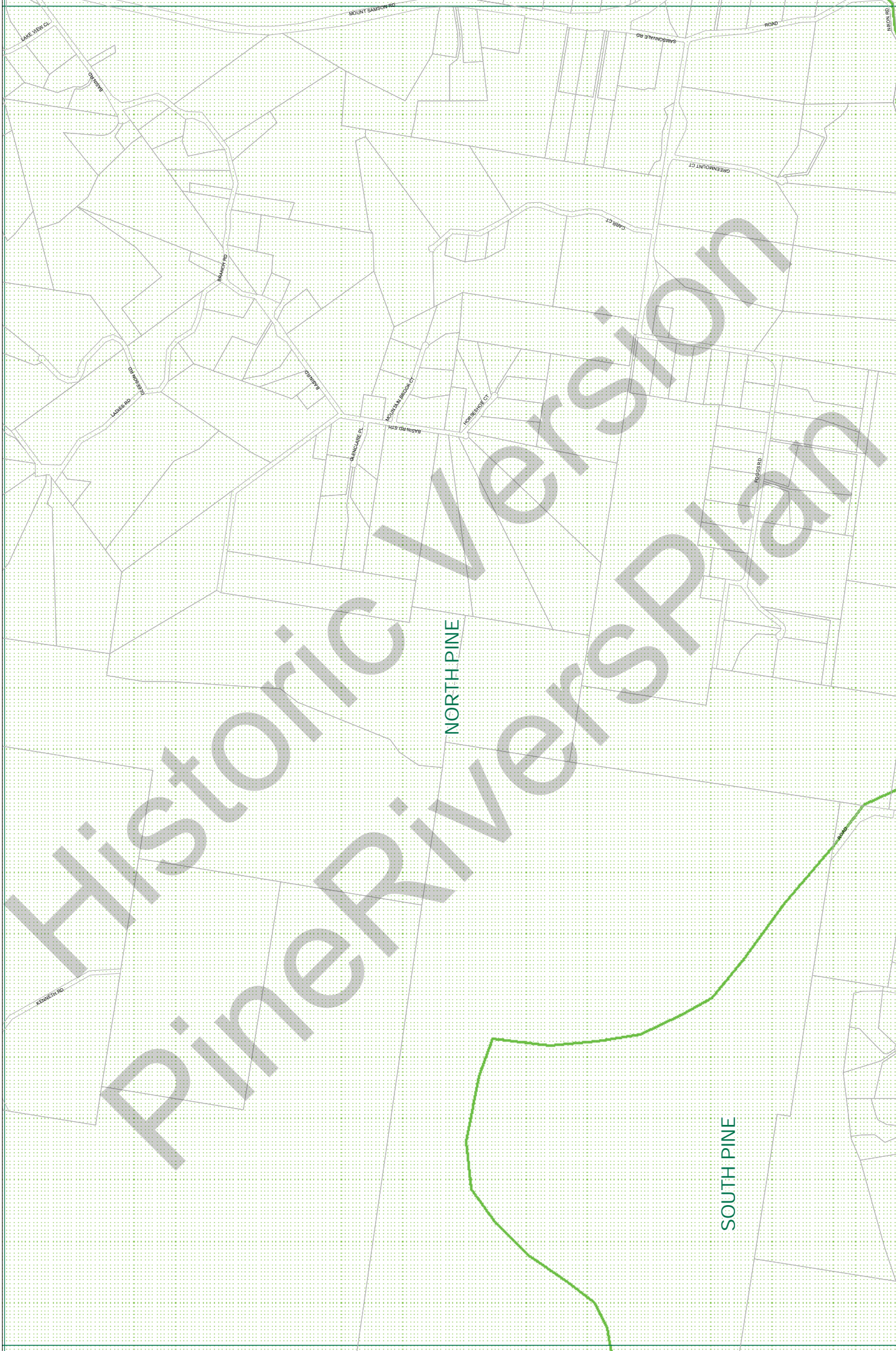
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DEVELOPMENT CONTRIBUTIONS FOR
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STORMWATER
EFFECTIVE FROM 29 October 2009

11.1	11.3	11.5
13.1	13.3	13.5
	15.3	15.5



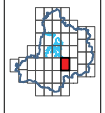
Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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STORMWATER
EFFECTIVE FROM 29 October 2009

11.3	11.5	11.7
13.3	13.5	13.7
15.3	15.5	15.7

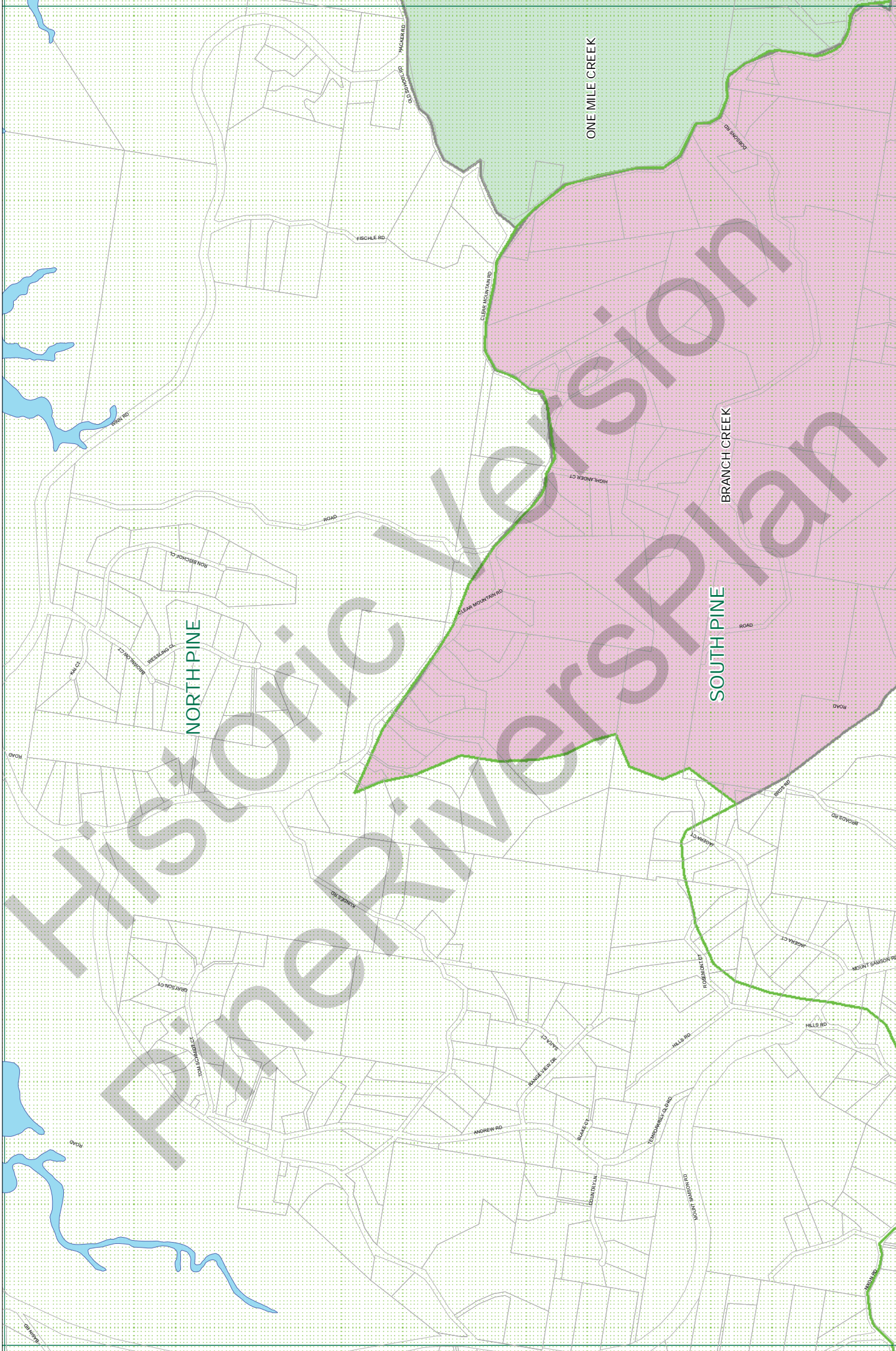


Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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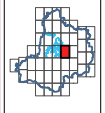
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Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS
Map Number 13.7

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DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

11.5	11.7	11.9
13.5	13.7	13.9
15.5	15.7	15.9



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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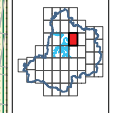
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STORMWATER
EFFECTIVE FROM 29 October 2009

11.7	11.9	11.11
13.7	13.9	13.11
15.7	15.9	15.11



Stormwater Local Catchments Shire Border

Stormwater Creek Catchments

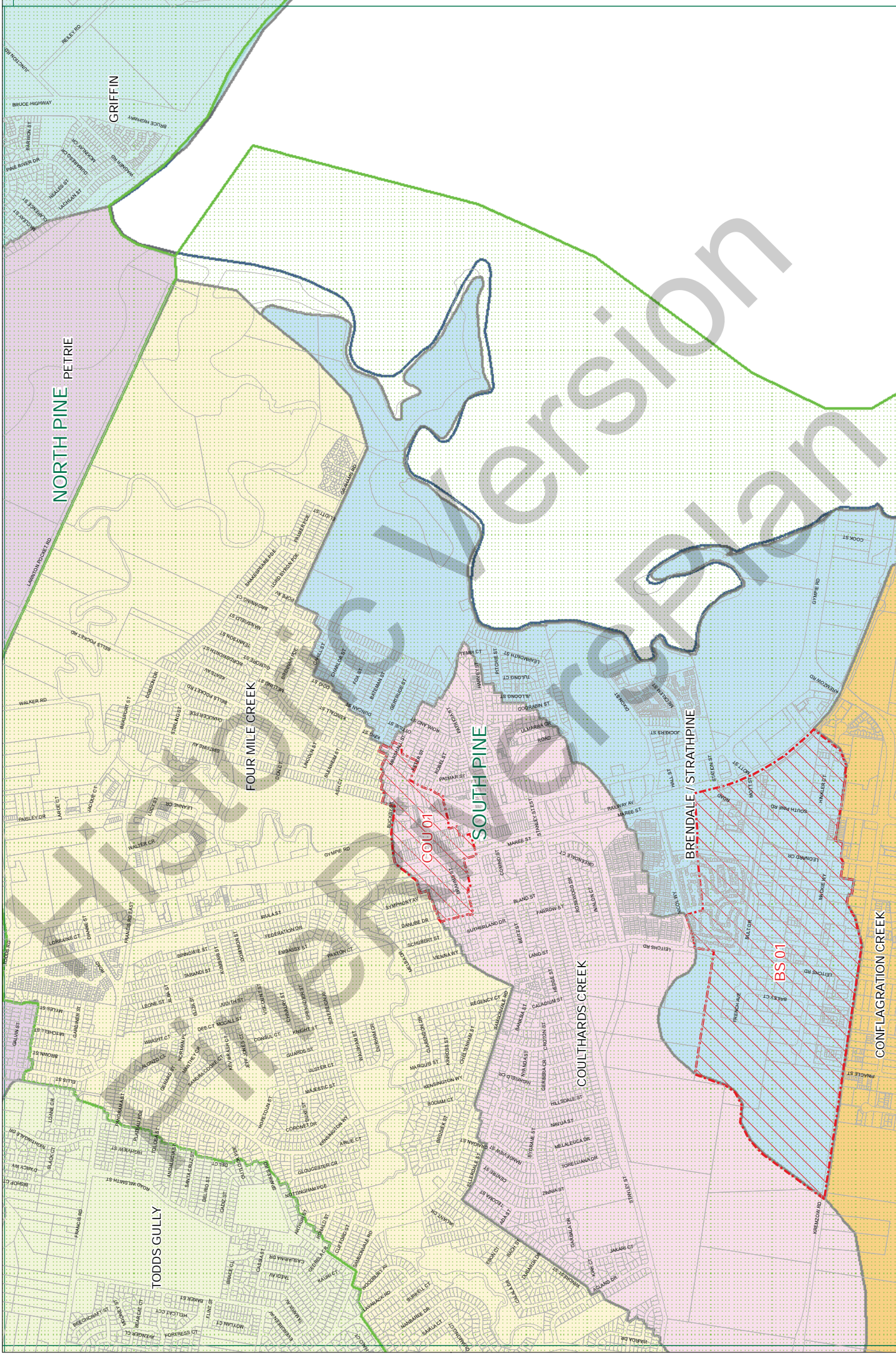
Stormwater River Catchments

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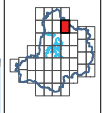
BRANCH CREEK

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Meters

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11.9	11.11	11.13
13.9	13.11	13.13
15.9	15.11	



Stormwater Local Catchments Shire Border

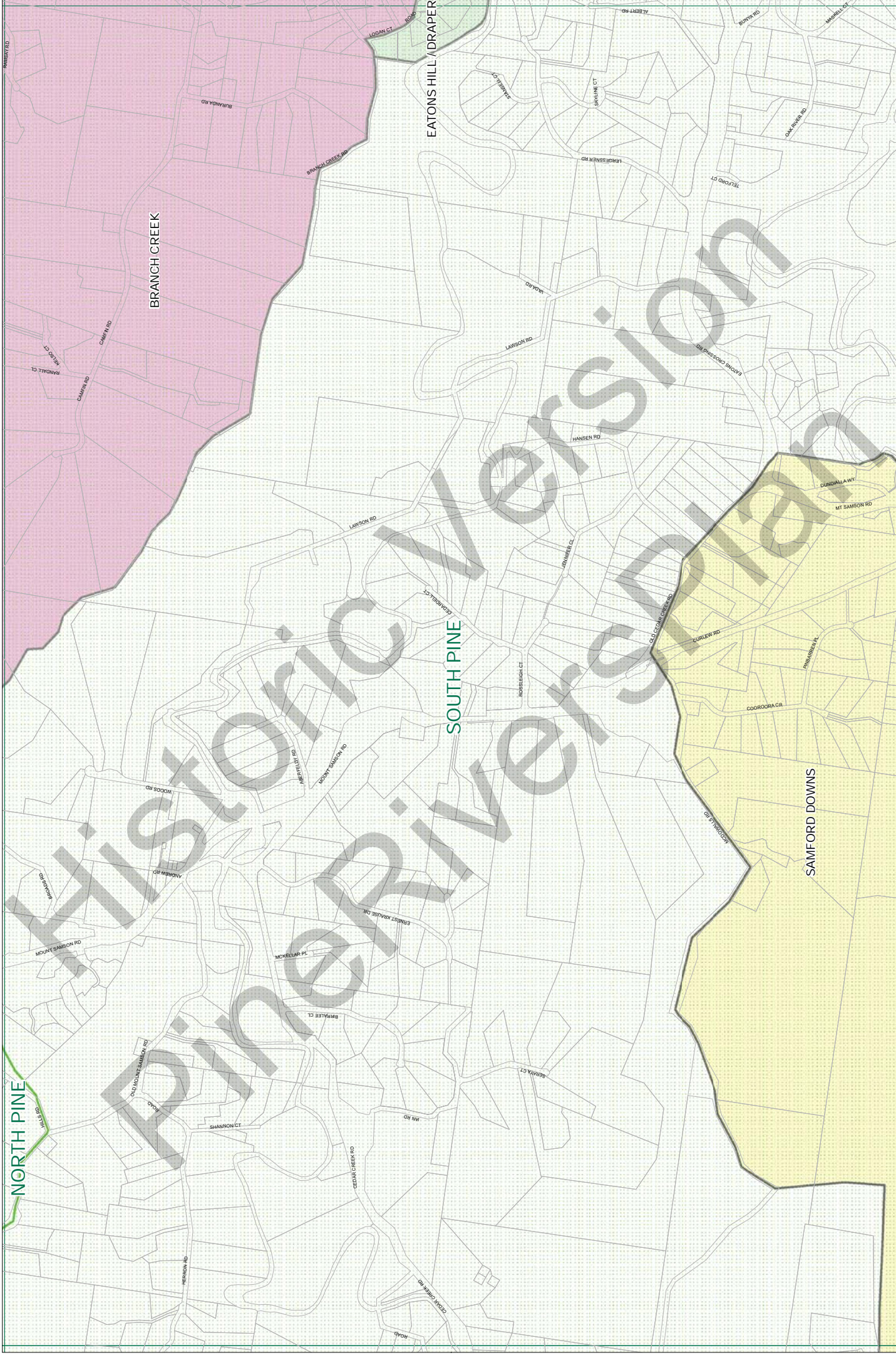
Stormwater Creek Catchments

Stormwater River Catchments

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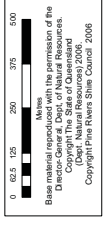
NORTH PINE

BRANCH CREEK

EATONS HILL / DRAPER

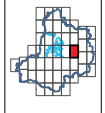
SOUTH PINE

SAMFORD DOWNS



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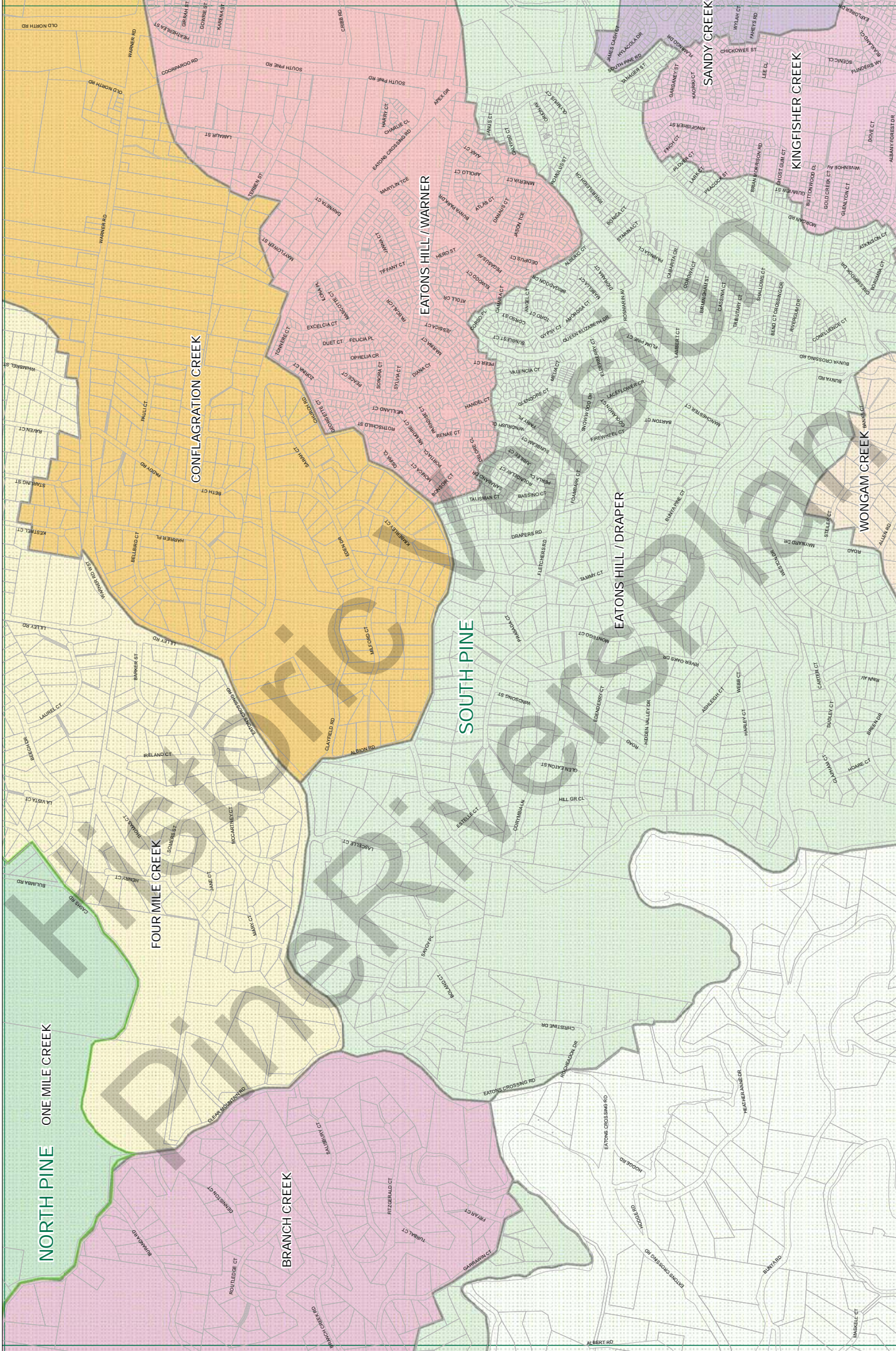
- Stormwater Local Catchments
 - Stormwater Creek Catchments
 - Stormwater River Catchments
- Shire Border



13.5	13.7	13.9
15.5	15.7	15.9
17.6	17.8	

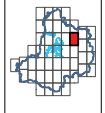
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DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER SERVICE CATCHMENTS
Map Number 15.7



PLANNING SCHEME POLICY PSP24
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 STORMWATER
 EFFECTIVE FROM 29 October 2009

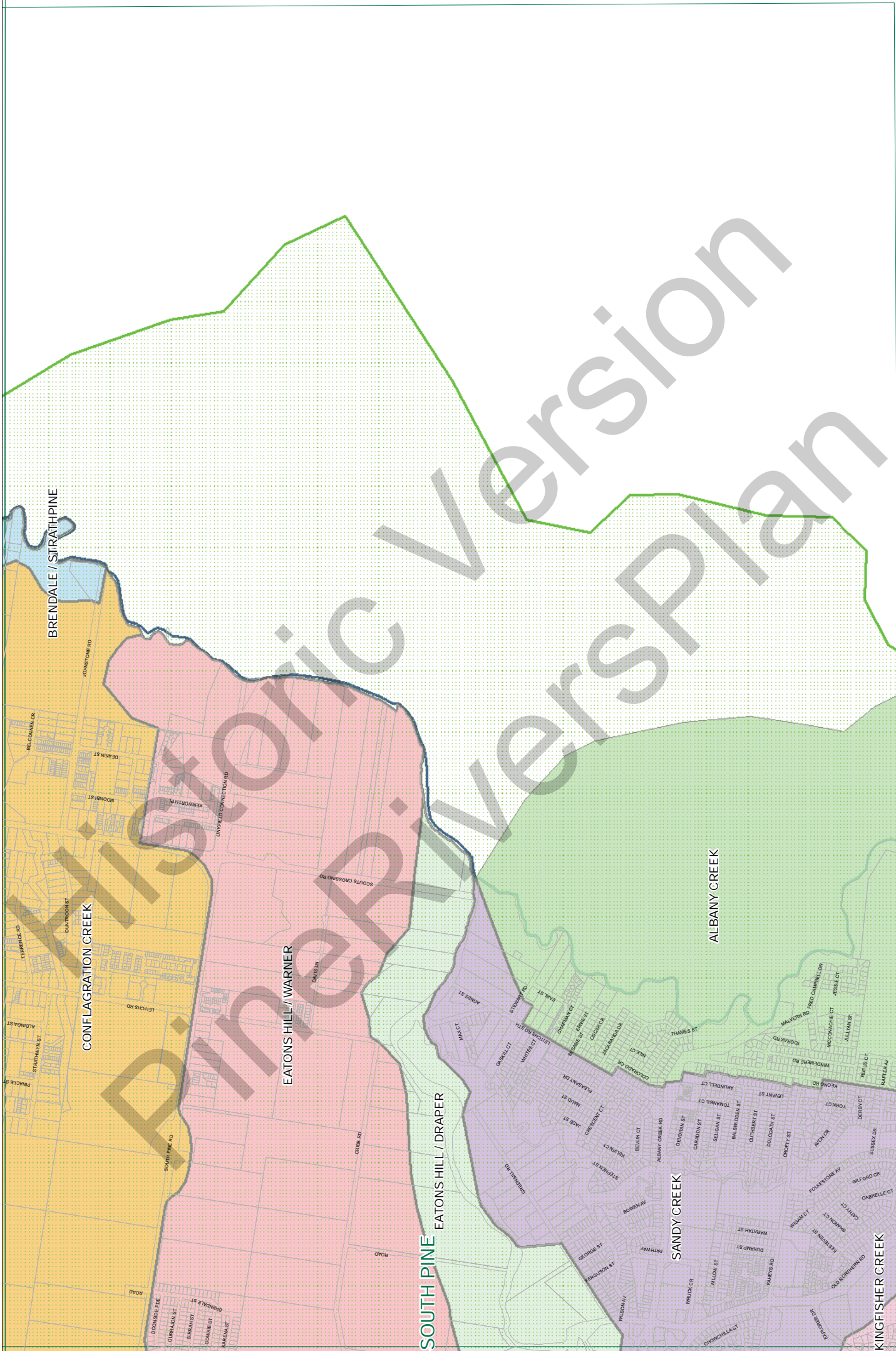
13.7	13.9	13.11
15.7	15.9	15.11
17.8	17.10	



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

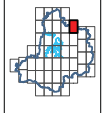
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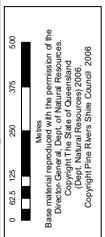
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STORMWATER
EFFECTIVE FROM 29 October 2009

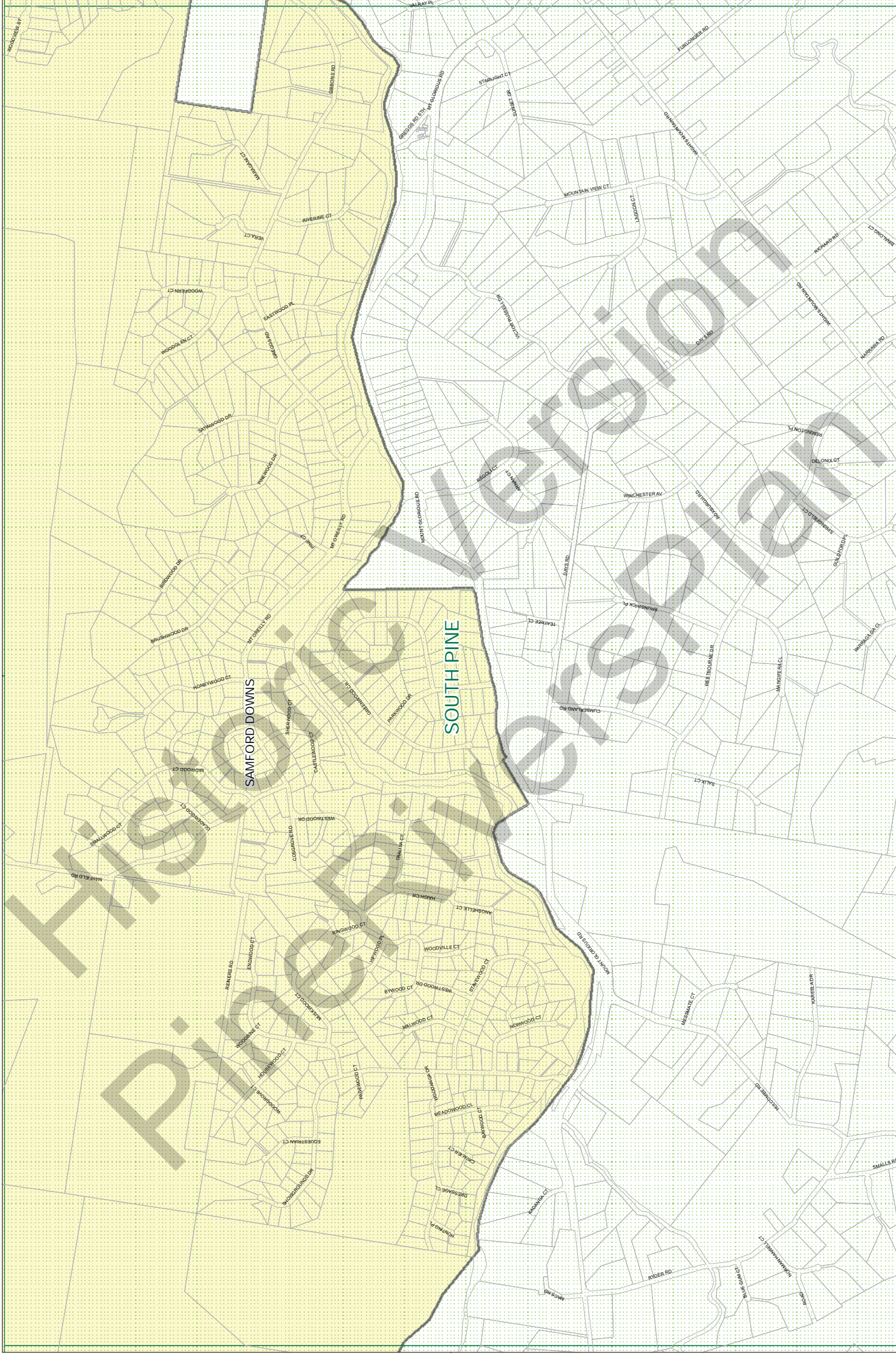
13.11	13.13
15.11	



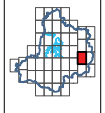
Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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15.5	15.7
17.4	17.6
17.8	19.3
19.4	19.6



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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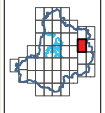
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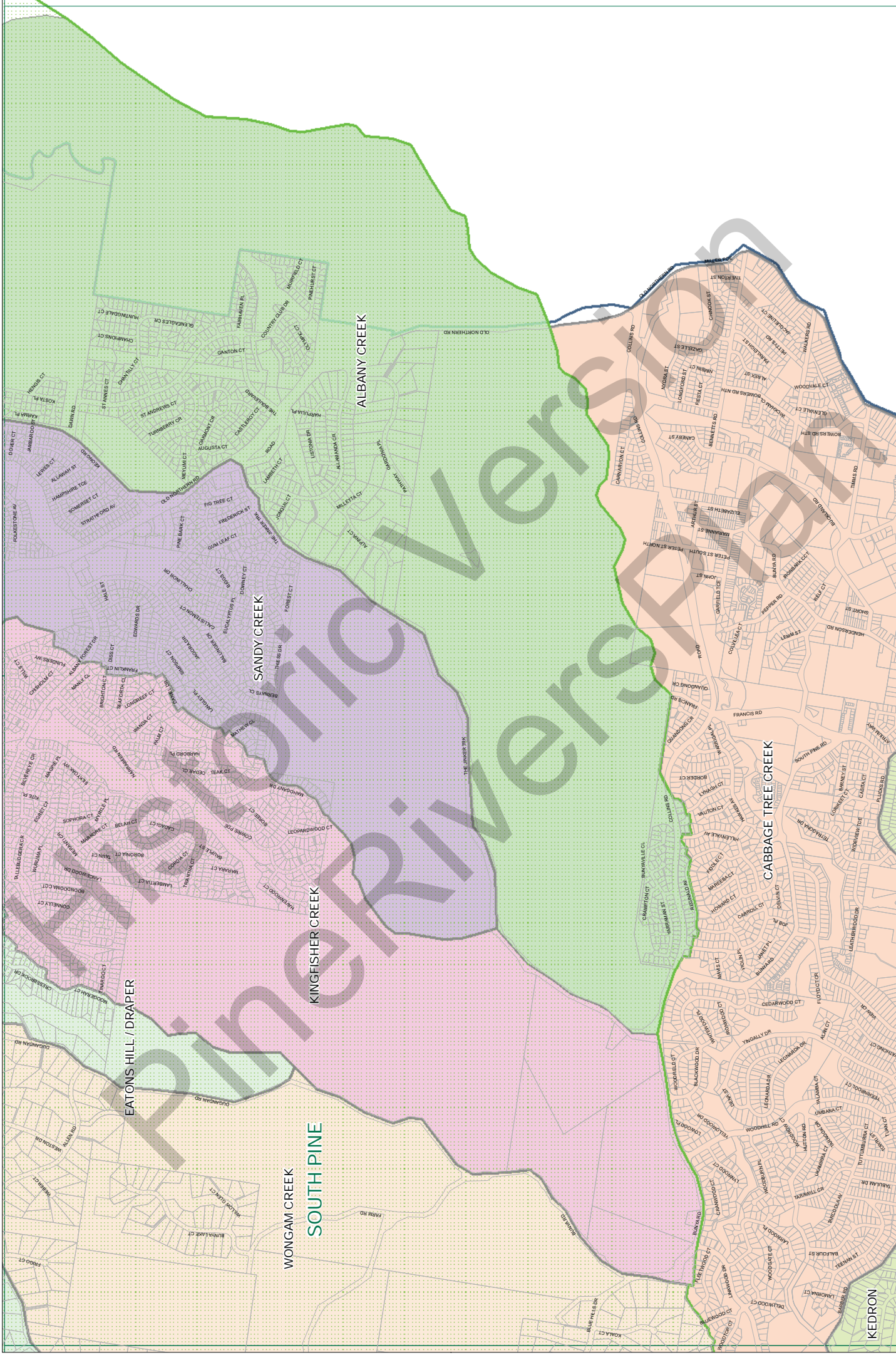
- Stormwater Local Catchments
- Shire Border
- Stormwater Creek Catchments
- Stormwater River Catchments



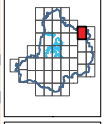
15.7	15.9
17.6	17.8
19.6	19.8
	19.10

PLANNING SCHEME POLICY PSP24
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 STORMWATER
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MORETON BAY REGIONAL COUNCIL
 Pine River Shire
 STORMWATER SERVICE CATCHMENTS
 Map Number 17.8



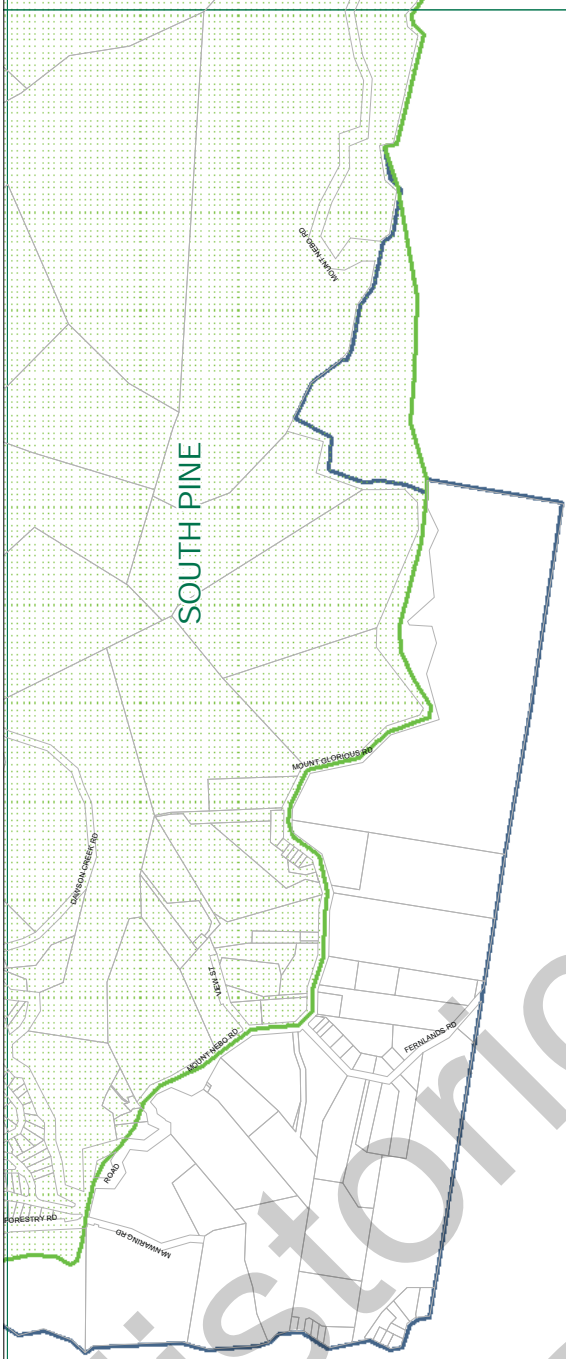
15.7	15.9	15.11
17.8	17.10	19.10
19.8	19.10	



Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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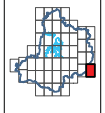


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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



17.4	17.6
19.4	19.6

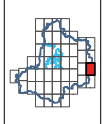
PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



Scale: 0 62.5 125 250 375 500 Meters
 Stormwater Local Catchments © Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments
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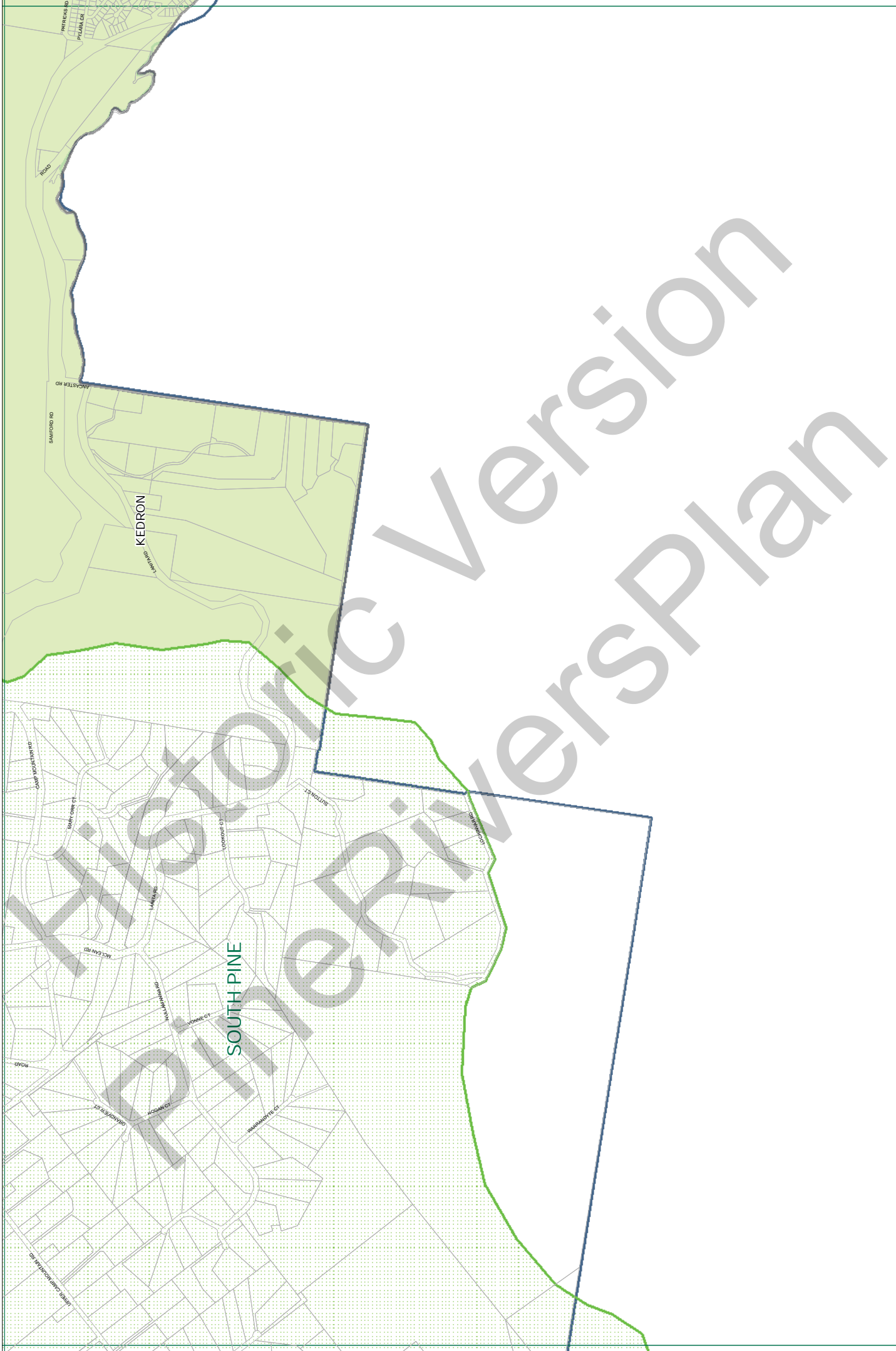
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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



17.4	17.6	17.8
19.4	19.6	19.8

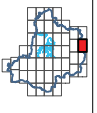
PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009



0 62.5 125 250 375 500
Metres
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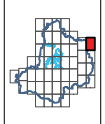
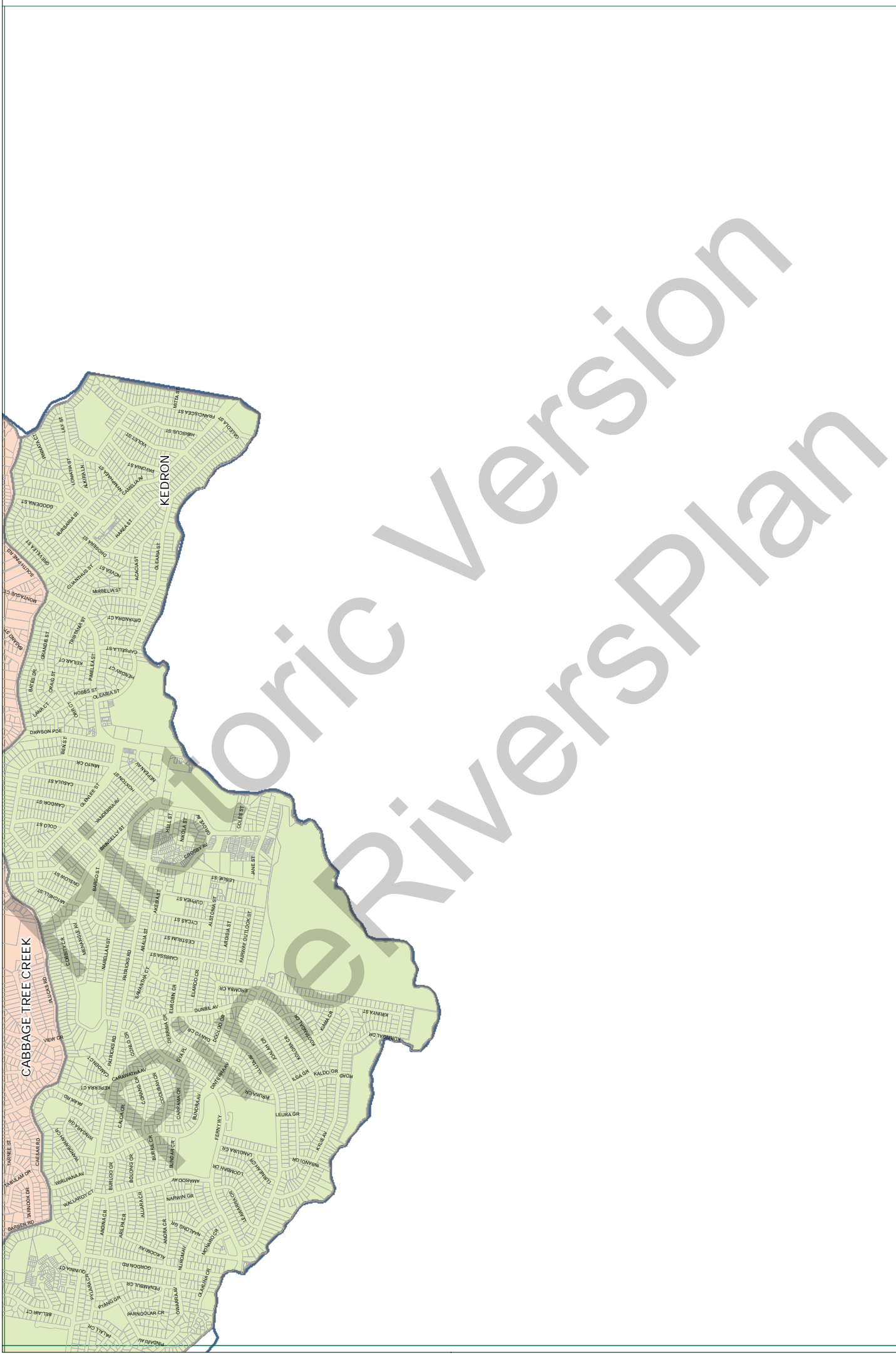
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Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments



17.6	17.8	17.10
19.6	19.8	19.10

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



Stormwater Local Catchments Shire Border
 Stormwater Creek Catchments
 Stormwater River Catchments

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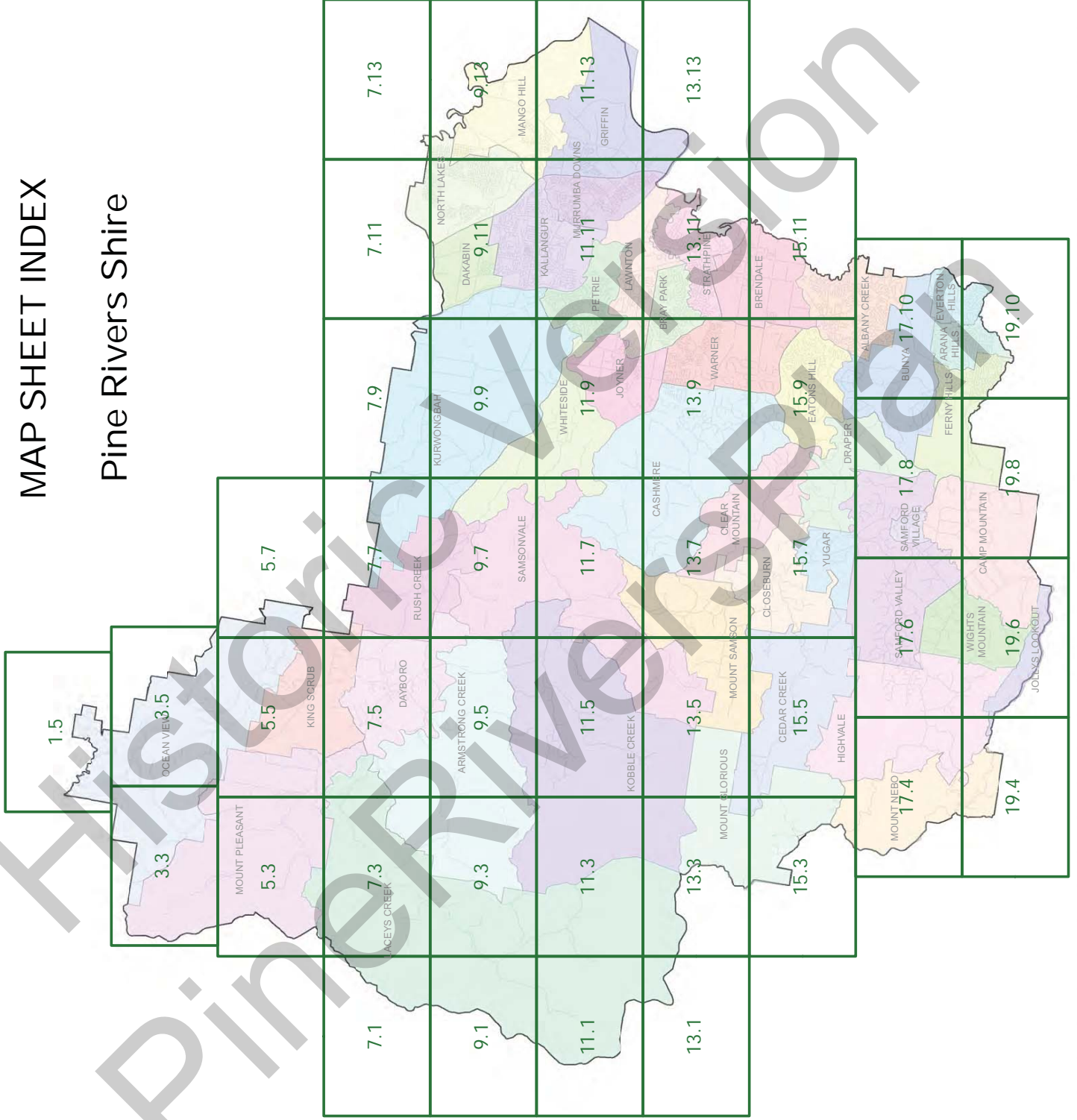
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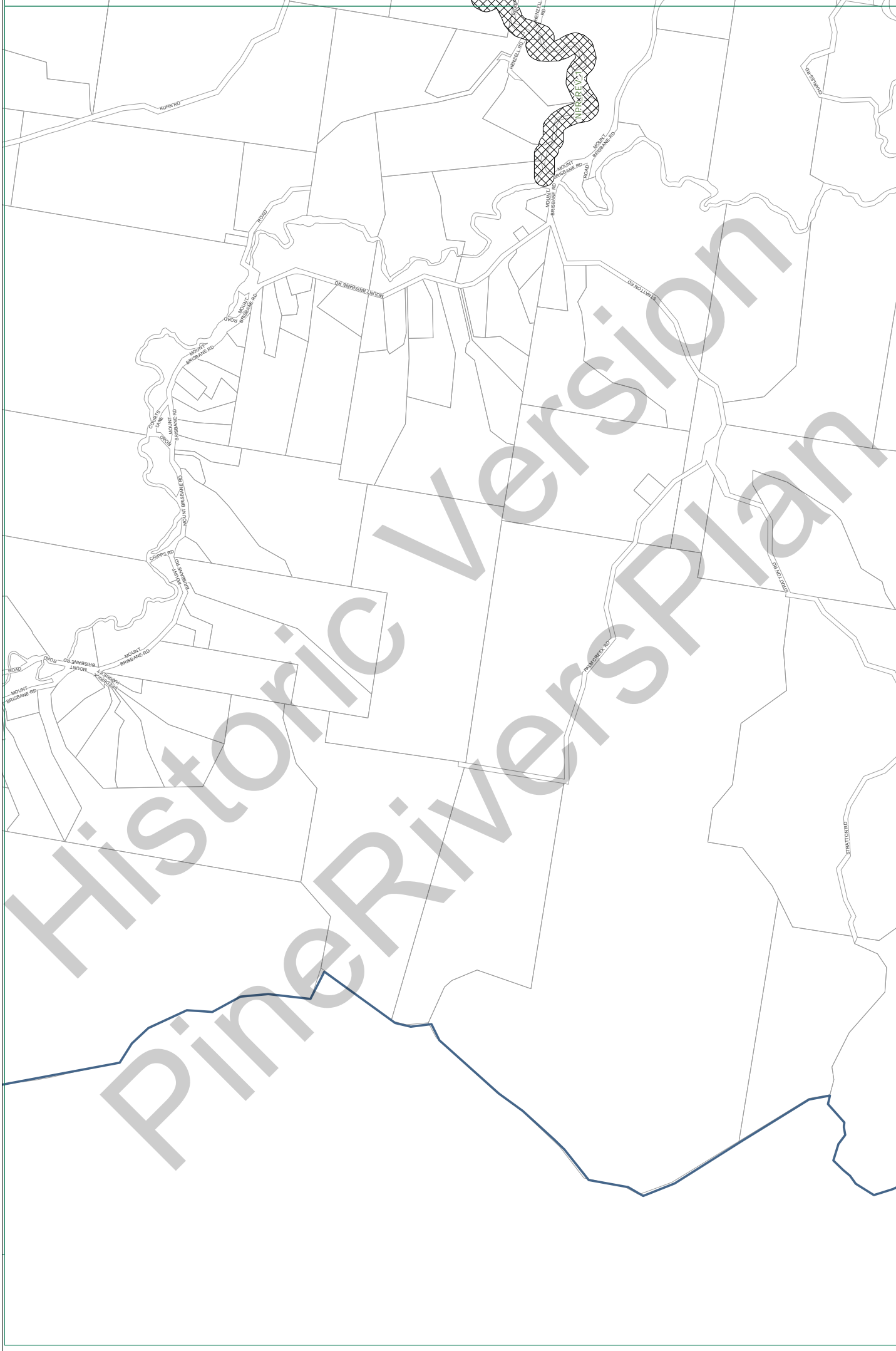
Schedule D: Network Assets

Historic Version
PineRiversPlan

MAP SHEET INDEX

Pine Rivers Shire





0 62.5 125 200 375 500
Metres

Scale: 1:10000

Bar scale showing distances in metres: 0, 62.5, 125, 200, 375, 500.

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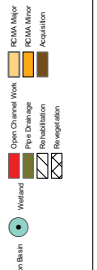
FUTURE INFRASTRUCTURE

- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- Wetland
- Sedimentation Basin
- Swale
- Train Busk
- Other Channel Work
- Pipe Drainage
- Revegetation
- No Vegetation
- ICMA Major
- ICMA Minor
- Assessment

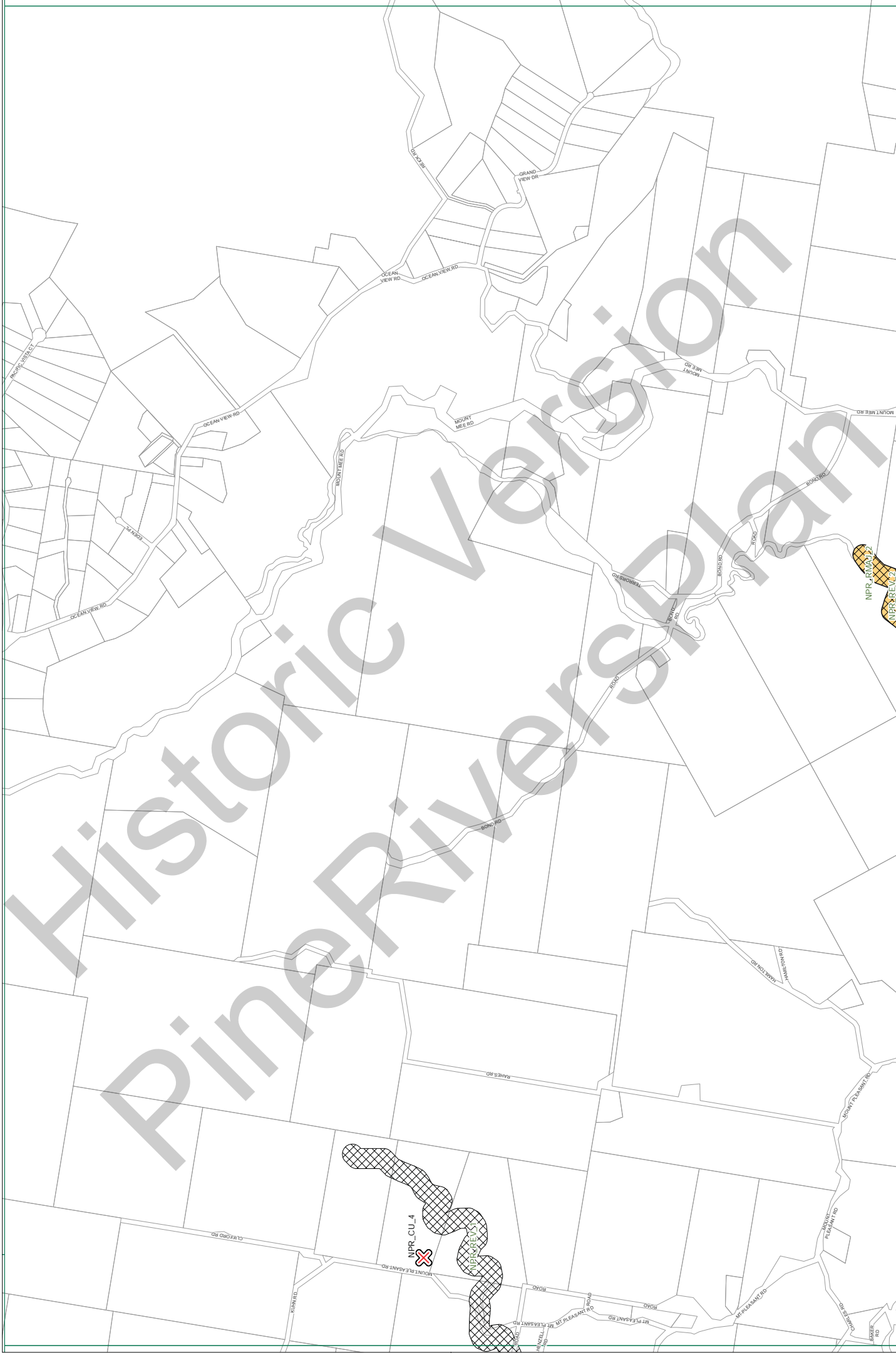
Deviation Basin
 GPT
 Inversion Basin
 Crossing Upgrade
 Wetland
 Sedimentation Basin
 Swale
 Train Busk

PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009

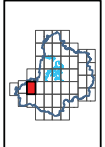
3.3	3.5	5.3	5.5
7.1	7.3	7.5	



MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER NETWORK PLAN
 FOR TRUNK INFRASTRUCTURE
 Map Number 5.3



PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
 EFFECTIVE FROM 29 October 2009



3.3	3.5
5.3	5.5
7.3	7.5
5.7	7.7

- ICMA Major
- ICMA Minor
- Association
- Other Channel Work
- Pipe Drainage
- Reinstatement
- No Reinstatement

- Wetland
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- GPT
- Sewer
- Train Buck

Future Infrastructure

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NPR_CUL.3

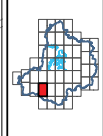
Scale bar: 0, 62.5, 125, 250, 375, 500 Meters
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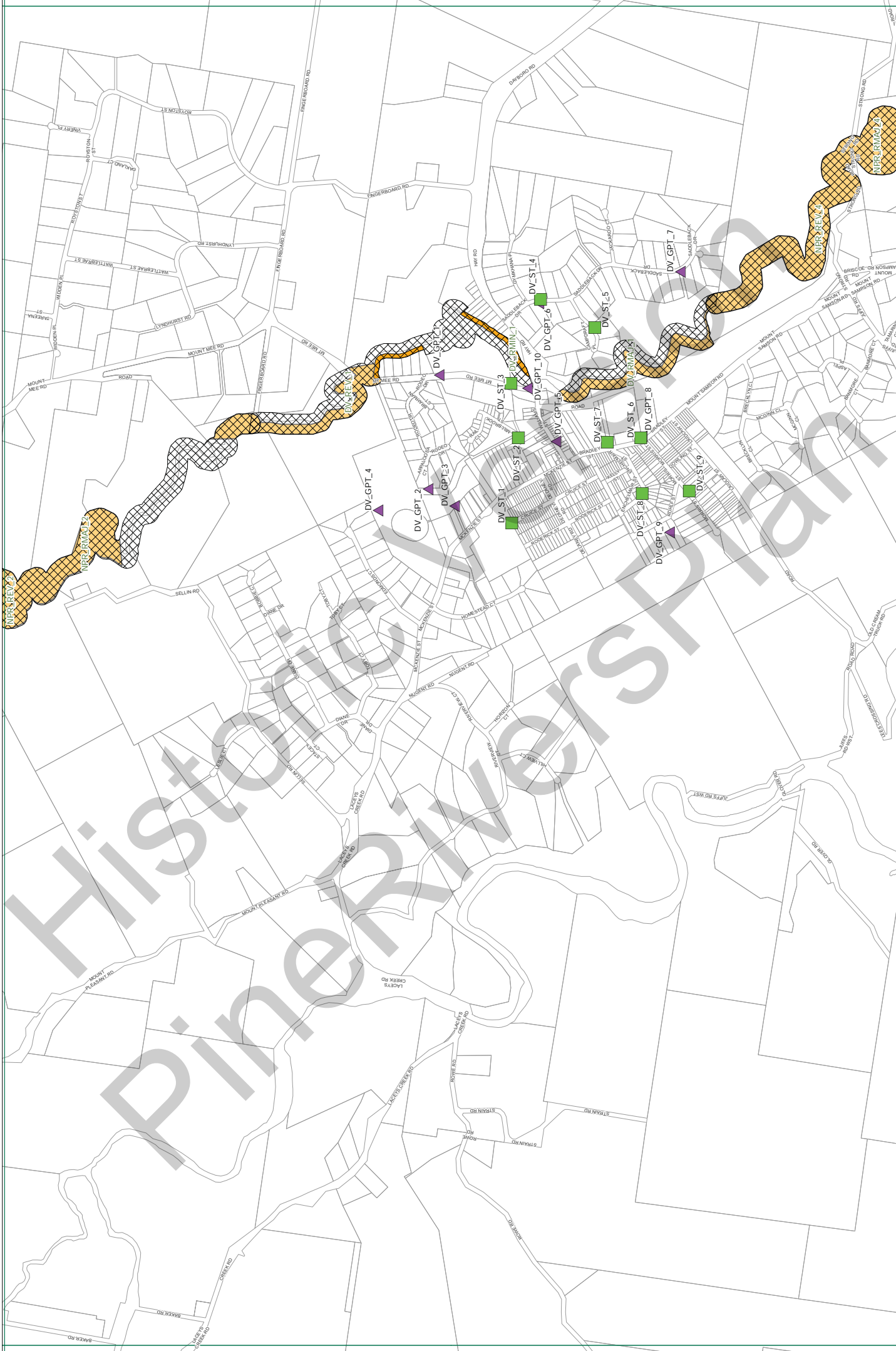
Future Infrastructure

- Bank Stabilisation
- Inversion Basin
- Overcrossing
- Wetland
- Retention on Basin
- Sewer
- Train Busk
- Deviation Basin
- GPT
- Subsidence
- Other Channel Work
- Pipe Drainage
- Revegetation
- No Vegetation
- ICMA Major
- ICMA Minor
- Assessment

5.3	5.5
7.1	7.3
9.1	9.3
7.5	9.5



PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER



Scale: 0 62.5 125 200 375 500 Meters

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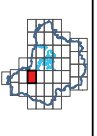
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Future Infrastructure

- Bank Stabilisation
- Inversion Basin
- Crossing Logroad
- Detention Basin
- GPT
- Stormwater Trap
- Sedimentation Basin
- Swale
- Train Busk

- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No Vegetation
- Wetland
- ICMA Major
- ICMA Minor
- Assessment

5.3	5.5	5.7
7.3	7.5	7.7
9.3	9.5	9.7



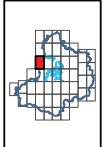
PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER NETWORK PLAN
FOR TRUNK INFRASTRUCTURE
Map Number 7.5

Historic Version
Pine River Stormwater Plan

MORETON BAY REGIONAL COUNCIL
Pine River's Shire
STORMWATER NETWORK PLAN
FOR TRUNK INFRASTRUCTURE
Map Number 7.9

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



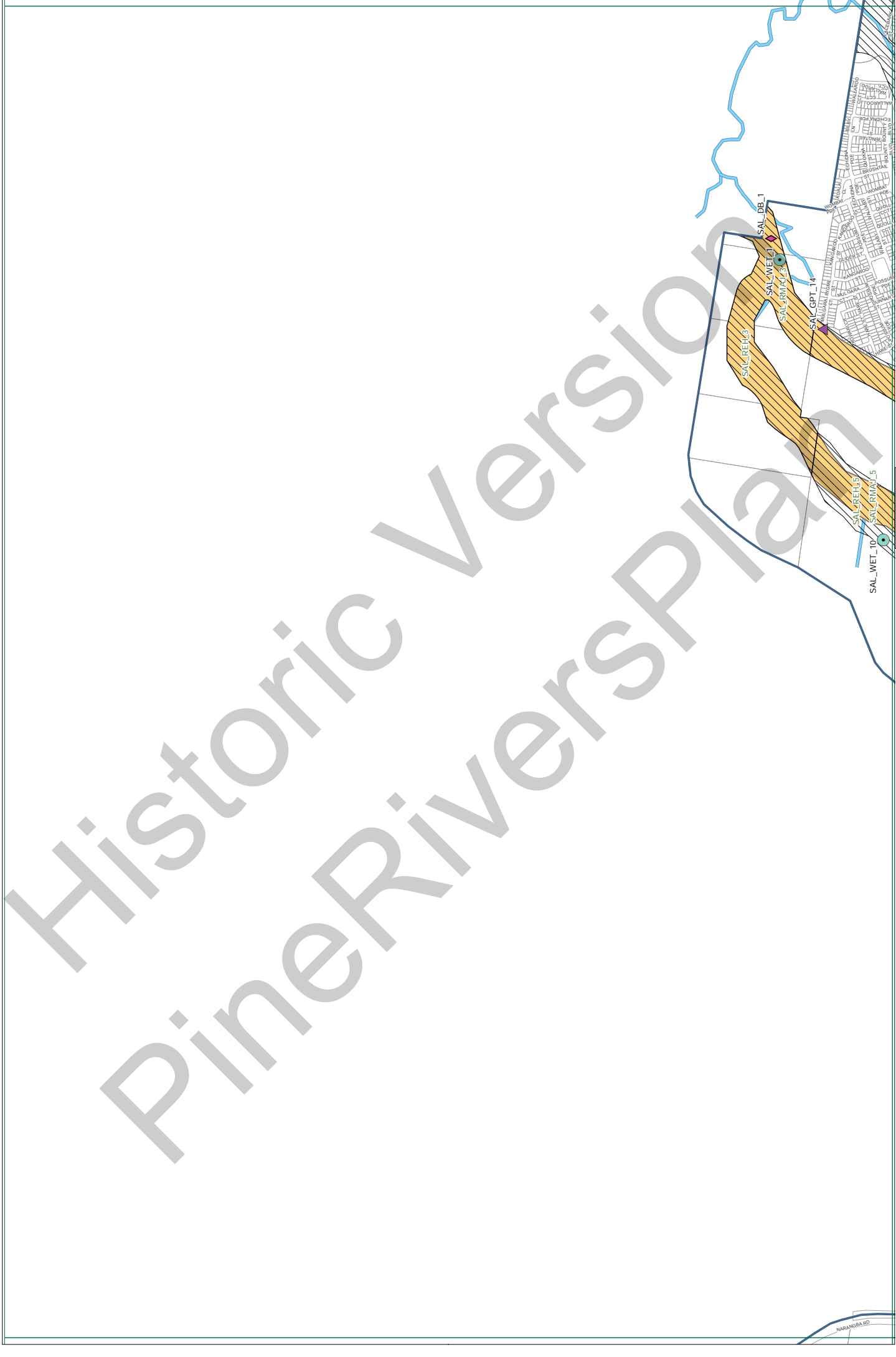
5.7	7.7	7.9	7.11
9.7	9.9	9.9	9.11

- ICMA Major
- ICMA Minor
- Assessment
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No Vegetation
- Wetland
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- GPT
- Swale
- Soakaway Trap
- Train Back
- Crossing Upgrade

- Future Infrastructure**
- Wetland
 - Sedimentation Basin
 - Deviation Basin
 - Bank Stabilisation
 - Inversion Basin
 - GPT
 - Swale
 - Soakaway Trap
 - Train Back
 - Crossing Upgrade

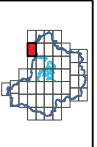
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Metres
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MORETON BAY REGIONAL COUNCIL
Pine River's Shire
STORMWATER NETWORK PLAN
FOR TRUNK INFRASTRUCTURE
Map Number 7.11

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



7.9	7.11	7.13
9.9	9.11	9.13
11.9	11.11	11.13

- ECMA Major
- ECMA Minor
- Assessment
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No Vegetation
- Wetland

- Development on Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- Sedimentation Basin
- GPT
- Soakaway
- Basin
- Tram Stop
- Tram Stop

FUTURE INFRASTRUCTURE

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Historic Version Pine River SPlan

0 62.5 125 200 375 500
Metres

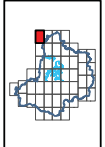
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Future Infrastructure

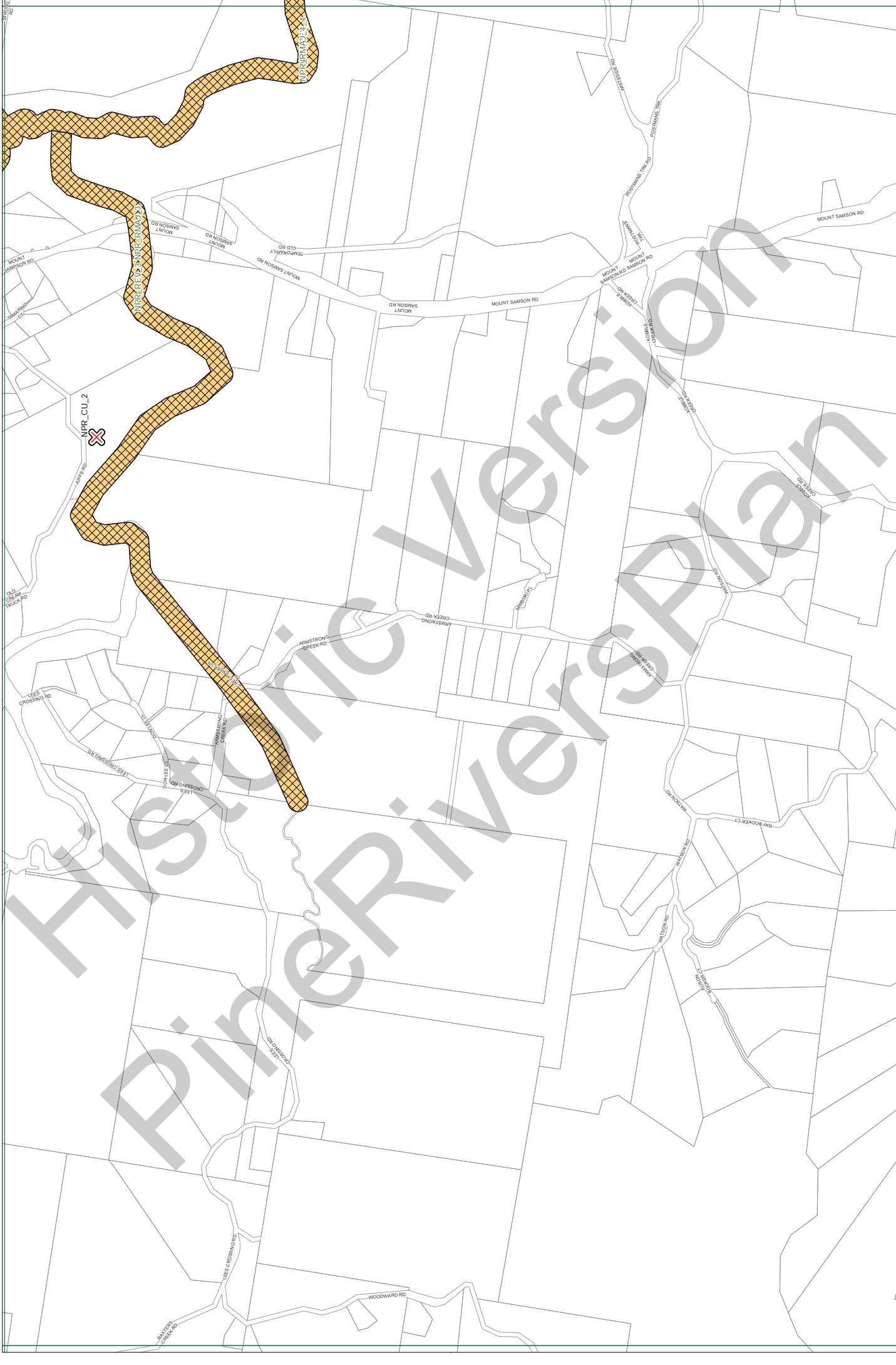
- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- Devotion Basin
- GPT
- Sedimentation Basin
- Bottle
- Trash Box
- Wetland
- No vegetation
- Revegetation
- Other Channel Work
- Pipe Drainage
- ECMA Major
- ECMA Minor
- Acquisition

7.11	7.13
9.11	9.13

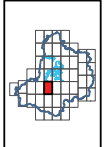


PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER NETWORK PLAN
FOR TRUNK INFRASTRUCTURE
Map Number 7.13



PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



7.3	7.5	7.7
9.3	9.5	9.7
11.3	11.5	11.7

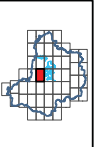
Future Infrastructure

- ICMA Major
- ICMA Minor
- Assessment
- Open Channel Work
- Pipe Drainage
- Reconstruction
- No Vegetation
- Wetland
- Submersible Basin
- Retention Basin
- Diversion Basin
- Bank Stabilisation
- Inoculation Basin
- Crossing Upgrade
- Tram Bus
- Tram Bus
- Tram Bus

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PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



7.5	7.7	7.9
9.5	9.7	9.9
11.5	11.7	11.9

Legend

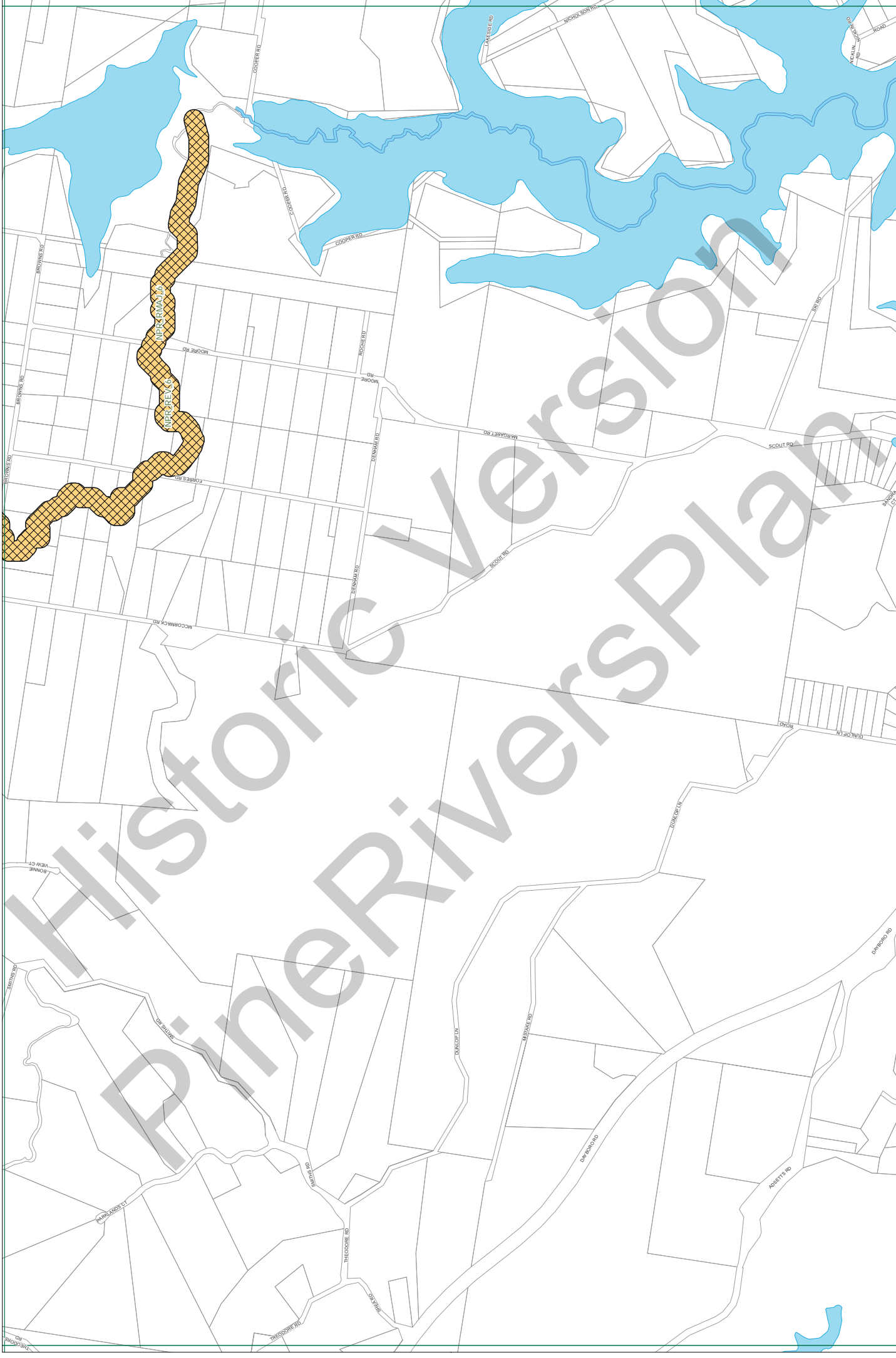
- ICMA Major
- ICMA Minor
- Assessment
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No Vegetation
- Wetland
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inoculation Basin
- Crossing Upgrade
- Tram Buck

Future Infrastructure

- Wetland
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inoculation Basin
- Crossing Upgrade
- Tram Buck

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Metres
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Metres
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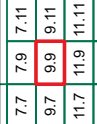
Future Infrastructure

Sewerage
Stormwater
Other Infrastructure

Other Infrastructure

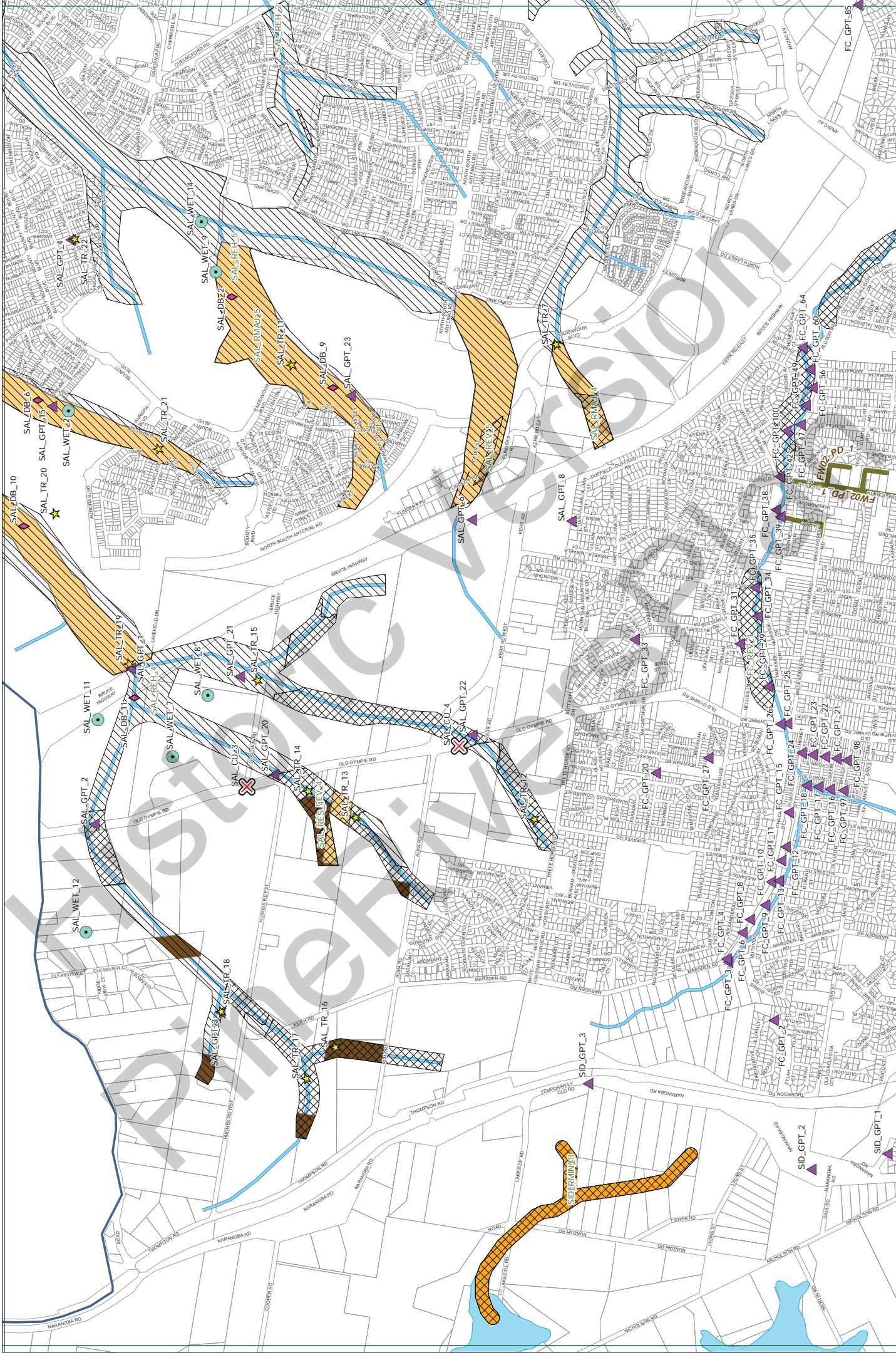
Water
Sewerage
Stormwater
Other Infrastructure

7.7	7.9	7.11
9.7	9.9	9.11
11.7	11.9	11.11

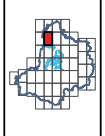


PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR TRUNK INFRASTRUCTURE - STORMWATER
EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
Pine Rivers Shire
STORMWATER NETWORK PLAN FOR TRUNK INFRASTRUCTURE
Map Number 9.9



PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



7.9	7.11	7.13
9.9	9.11	9.13
11.9	11.11	11.13

Future Infrastructure

- Bank Stabilisation
- Inversion Basin
- Downfall Basin
- Submerison Basin
- Wetland
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No vegetation
- Wetland
- Rehabilitation
- No vegetation

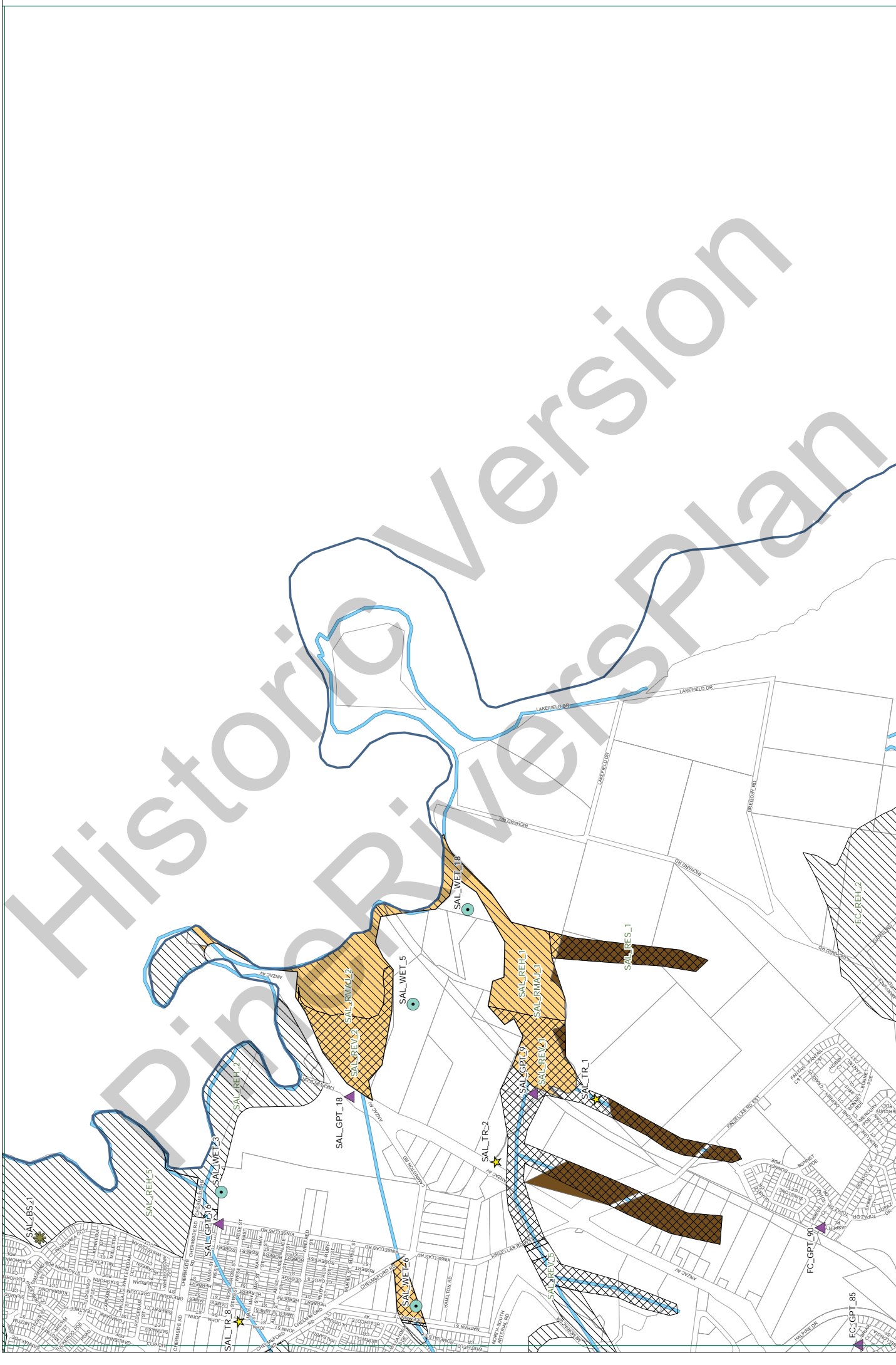
Future Infrastructure Legend:

- Bank Stabilisation
- Inversion Basin
- Downfall Basin
- Submerison Basin
- Wetland
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No vegetation

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Metres

Scale

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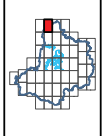
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FUTURE INFRASTRUCTURE

- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- Wetland
- Sedimentation Basin
- GP
- Stormwater Trap
- Open Channel Work
- Pipe Drainage
- Reconstruction
- No Infrastructure
- ECMA Major
- ECMA Minor
- Assessment

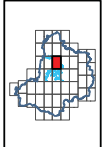
- Deception Basin
- GP
- Stormwater Trap
- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- Wetland
- Sedimentation Basin
- GP
- Stormwater Trap
- Open Channel Work
- Pipe Drainage
- Reconstruction
- No Infrastructure
- ECMA Major
- ECMA Minor
- Assessment

7.11	7.13
9.11	9.13
11.11	11.13



PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009

MORETON BAY REGIONAL COUNCIL
Pine River's Shire
STORMWATER NETWORK PLAN
FOR TRUNK INFRASTRUCTURE
Map Number 9.13

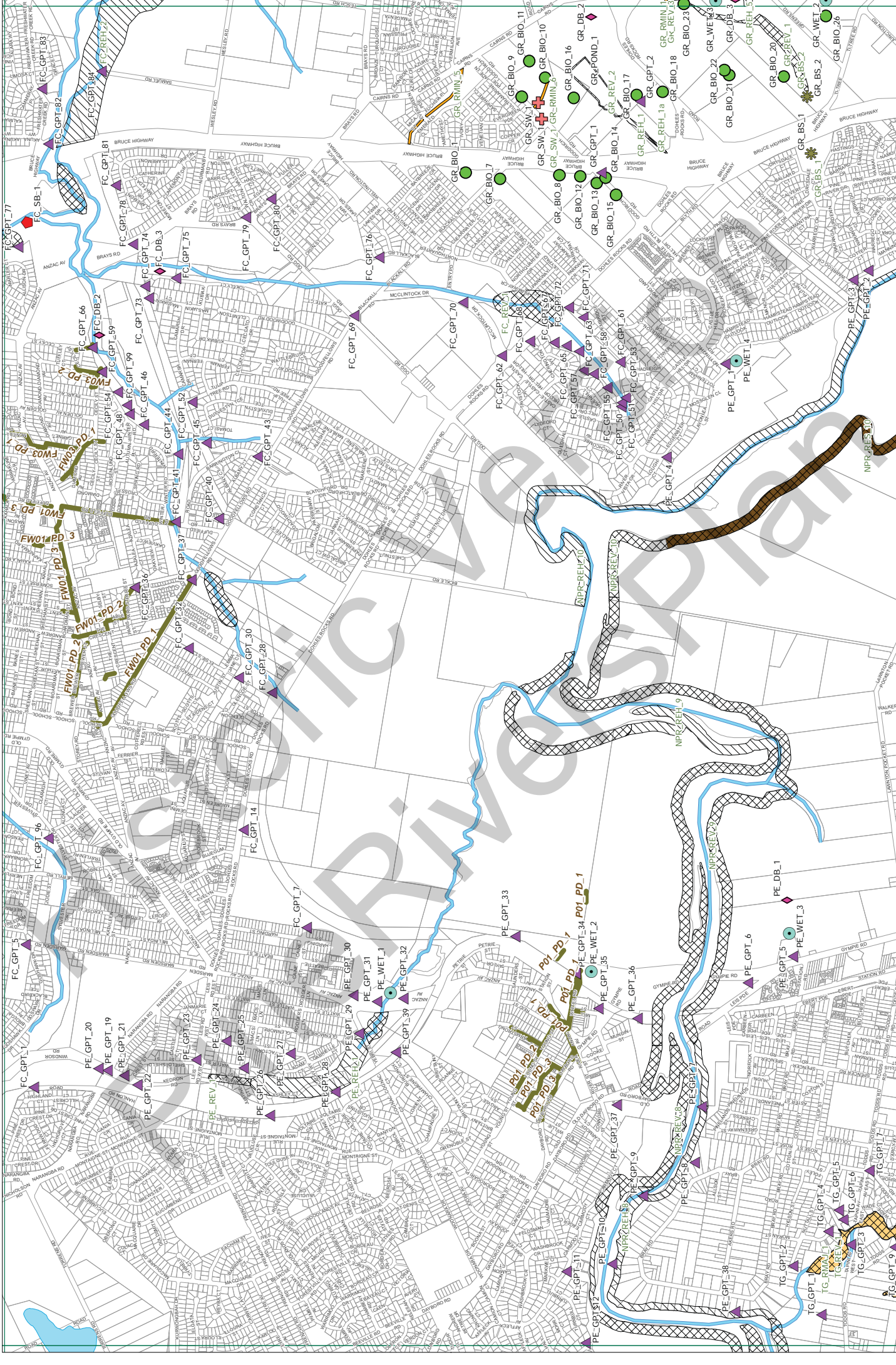


9.7	9.9	9.11
11.7	11.9	11.11
13.7	13.9	13.11

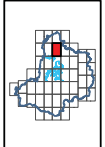
Future Infrastructure

- ECMA Major
- ECMA Minor
- Assessment
- Other Channel Work
- Pipe Damage
- Reconstruction
- No Replacements
- Wetland
- Submergence Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- Tram Track
- Tram Stop
- Tram Back
- Tram Stop
- Tram Back

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PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



9.9	9.11	9.13
11.9	11.11	11.13
13.9	13.11	13.13

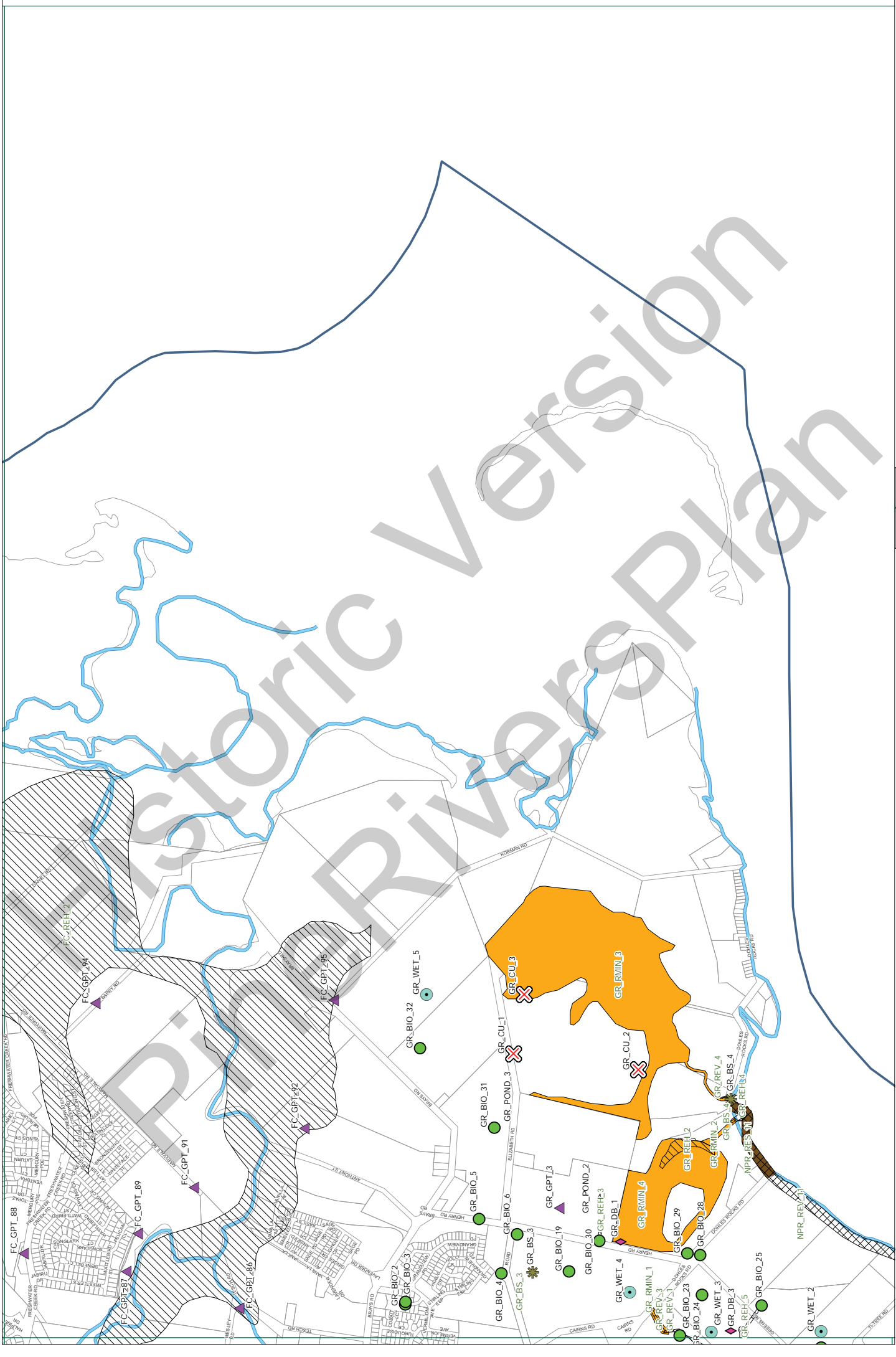
Future Infrastructure

- ACMA Major
- ACMA Minor
- Assessment
- Open Channel Work
- Pipe Drains
- Reconstruction
- No Vegetation
- Wetland
- Redundant/Blank
- Reconstruction/Blank
- Swale
- Team Back
- Bank Stabilisation
- Detention Basin
- Inversion Basin
- GPT
- Detention Trip
- Crossing Upgrade

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MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER NETWORK PLAN
 FOR TRUNK INFRASTRUCTURE
 Map Number 11.13

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 DEVELOPMENT CONTRIBUTIONS FOR
 TRUNK INFRASTRUCTURE -
 STORMWATER
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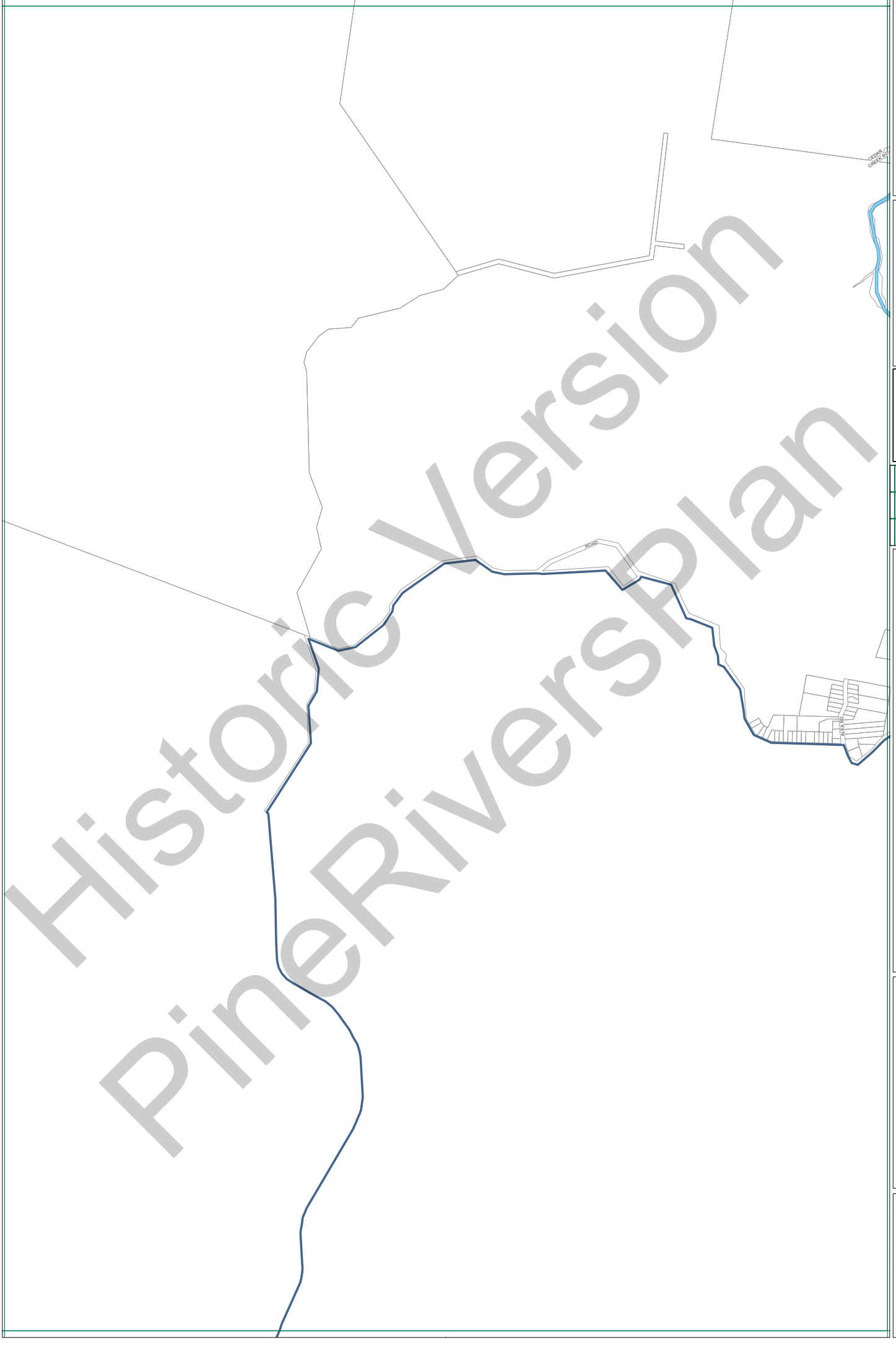
11.11	11.13
13.11	13.13

Future INFRASTRUCTURE

- FCMA Major
- FCMA Minor
- Association
- Open Channel Work
- Pipe Drainage
- Revegetation
- No Vegetation
- Wetland
- Sedimentation Basin
- Detention Basin
- Bank Stabilisation
- Inundation Basin
- Soakaway
- Stormwater Trap
- Stream Bank
- Swale
- GPT
- Stormwater Upgrade

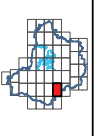
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Scale: 0 to 500 Meters



MORETON BAY REGIONAL COUNCIL
Pine River's Shire
STORMWATER NETWORK PLAN
FOR TRUNK INFRASTRUCTURE
Map Number 13.3

PLANNING SCHEME POLICY PSP24
DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



11.1	11.3	11.5
13.1	13.3	13.5
15.3	15.3	15.5

Other Channel Work

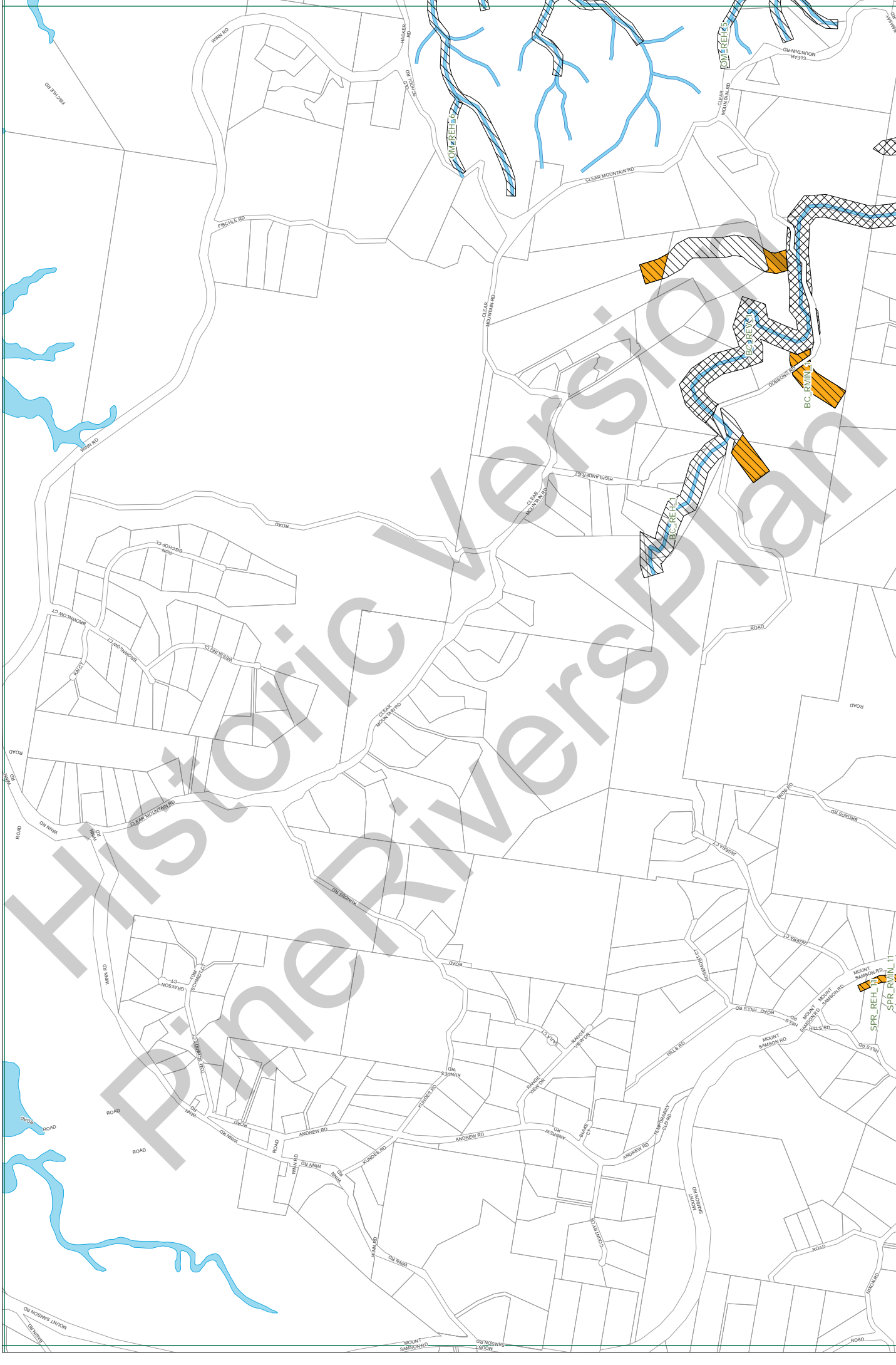
- ECMA Major
- ECMA Minor
- Assessment
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No Rehabilitation

Future Infrastructure

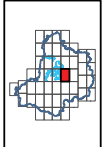
- Wetland
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Swale
- GPI
- Soakaway
- Tram Track
- Soakaway
- Crossing Upgrade

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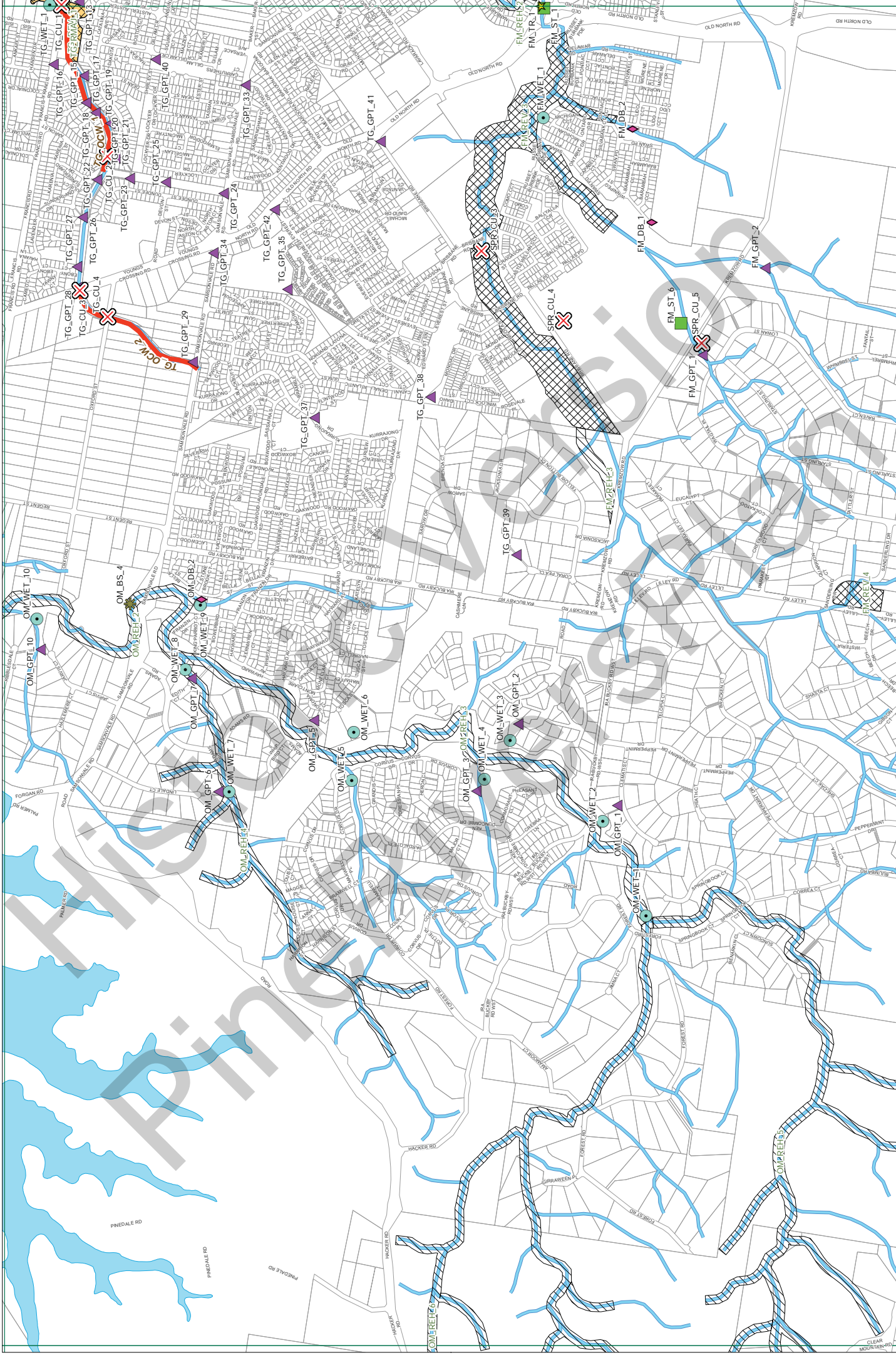


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13.5	13.7	13.9
15.5	15.7	15.9

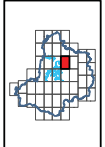
Future Infrastructure

- ECMA Major
- ECMA Minor
- Assessment
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No upgrades
- Wetland
- Sedimentation Basin
- Detention Basin
- Bank Stabilisation
- Inversion Basin
- Crossing Upgrade
- Tram Bus
- Tram Stop
- Tram Stop
- Tram Stop

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STORMWATER
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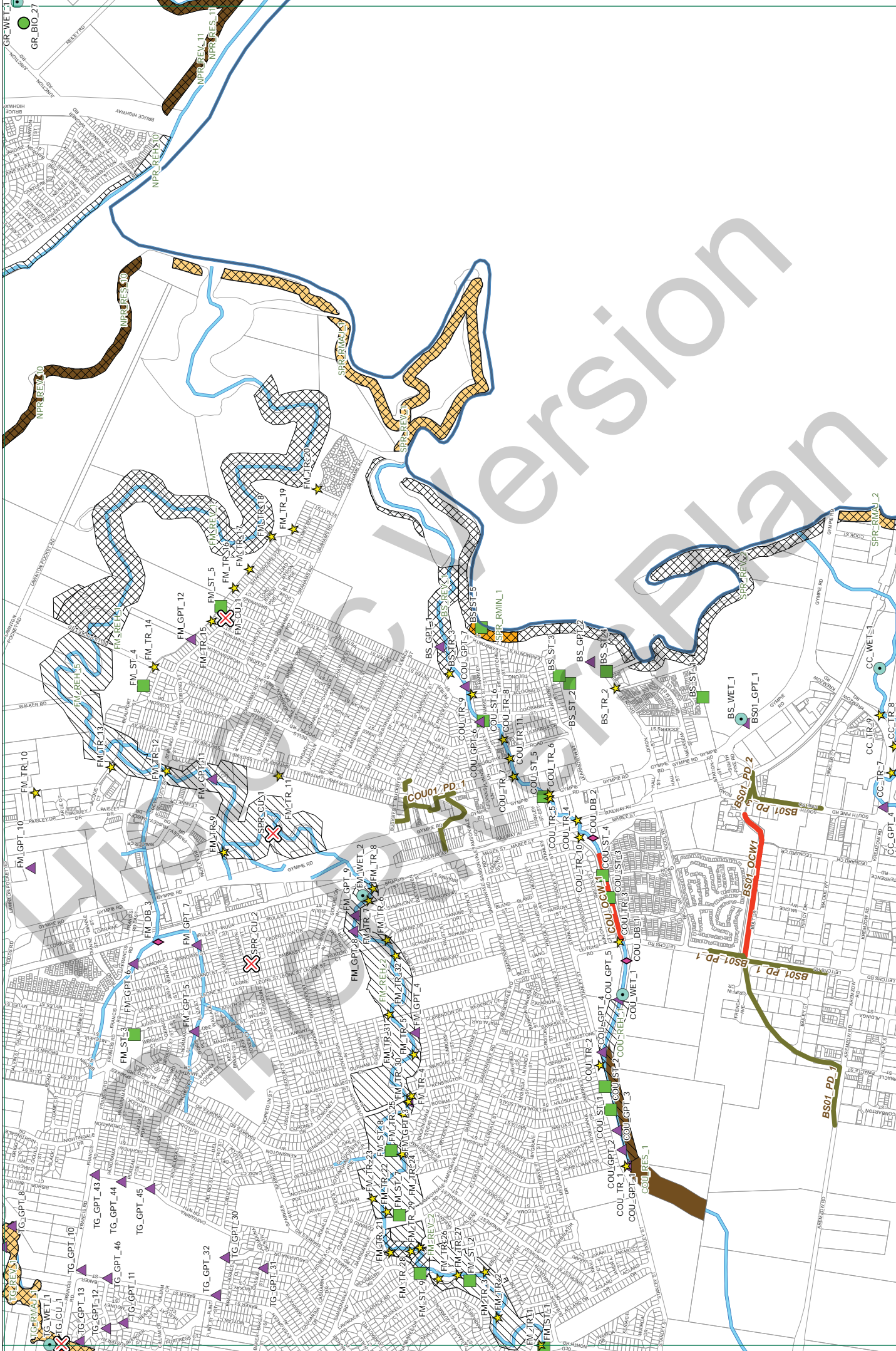
11.7	11.9	11.11
13.7	13.9	13.11
15.7	15.9	15.11

Future Infrastructure

- ECMA Major
- ECMA Minor
- Asson
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No signifier
- Wetland
- Submerison Basin
- Detention Basin
- Bank Stabilisation
- Inversion Basin
- GPT
- Swale
- Stream Bank
- Crossing Upgrade
- Stream Bank

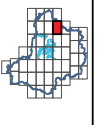
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GR-WET1
GR-BIG_27

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DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
EFFECTIVE FROM 29 October 2009



11.9	11.11	11.13
13.9	13.11	13.13
15.9	15.11	

Future Infrastructure

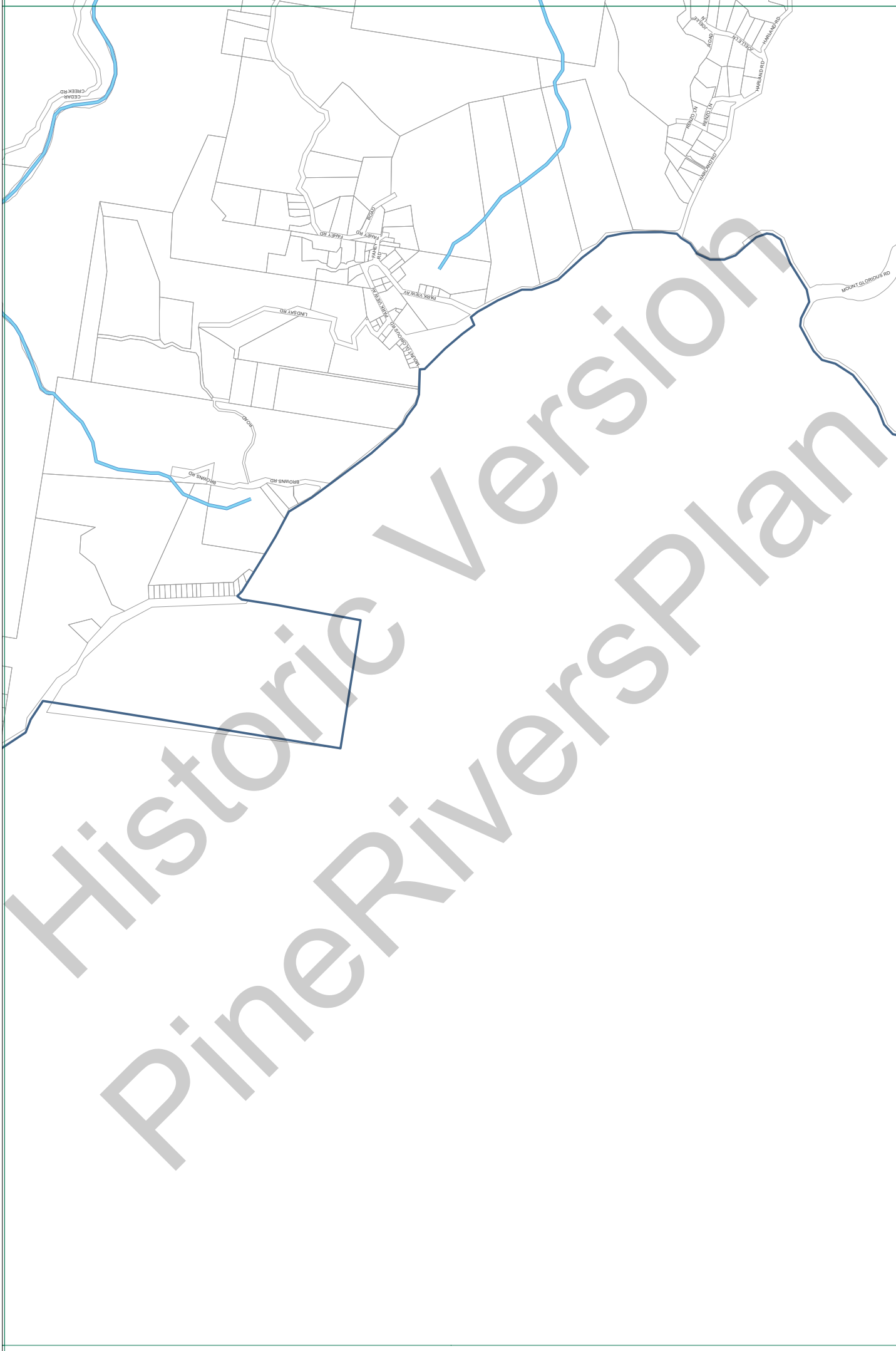
- Bank Stabilisation
- Sedimentation Basin
- Detention Basin
- Inversion Basin
- GPT
- Stormwater Trap
- Crossing Upgrade

Land Use

- Wetland
- Open Channel Weir
- Pipe Drainage
- Re-vegetation
- No Vegetation

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Future Infrastructure
 Bank Stabilisation
 Inversion Basin
 Crossing Upgrade
 Sewer
 Rain Tank

Other Charge Work
 Pipe Damage
 Rehabilitation
 No Negatives

Wetland
 Sedimentation Basin
 Debris Basin
 GPT
 Submersible Trap

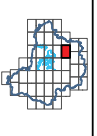
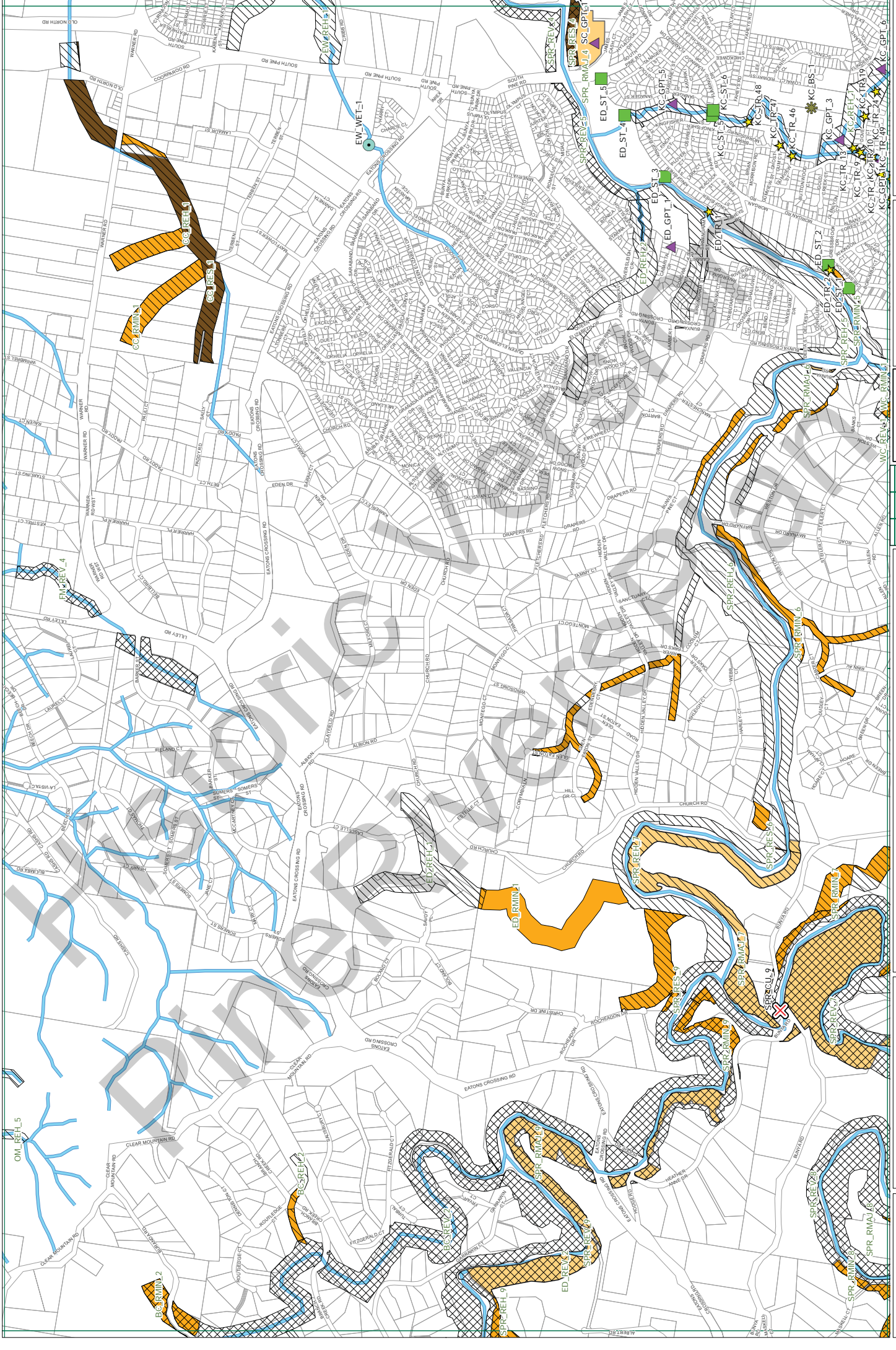
ICMA Major
 ICMA Minor
 Association

13.1	13.3	13.5	
		15.3	15.5
			17.4



PLANNING SCHEME POLICY PSP24
 DEVELOPMENT CONTRIBUTIONS FOR
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 STORMWATER
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MORETON BAY REGIONAL COUNCIL
 Pine Rivers Shire
 STORMWATER NETWORK PLAN
 FOR TRUNK INFRASTRUCTURE
 Map Number 15.3



13.7	13.9	13.11
15.7	15.9	15.11
17.8	17.10	

Future Infrastructure

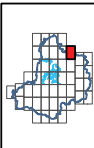
- Bank Stabilisation
- Inversion Basin
- GPT
- Retention Basin
- Swale
- Tram Stop
- Overcrossing
- Future Infrastructure
- Open Channel Work
- Pine Drainage
- Revegetation
- Wetland
- Submergence Basin
- Deception Basin
- Acacia Minor
- Acacia
- No vegetation

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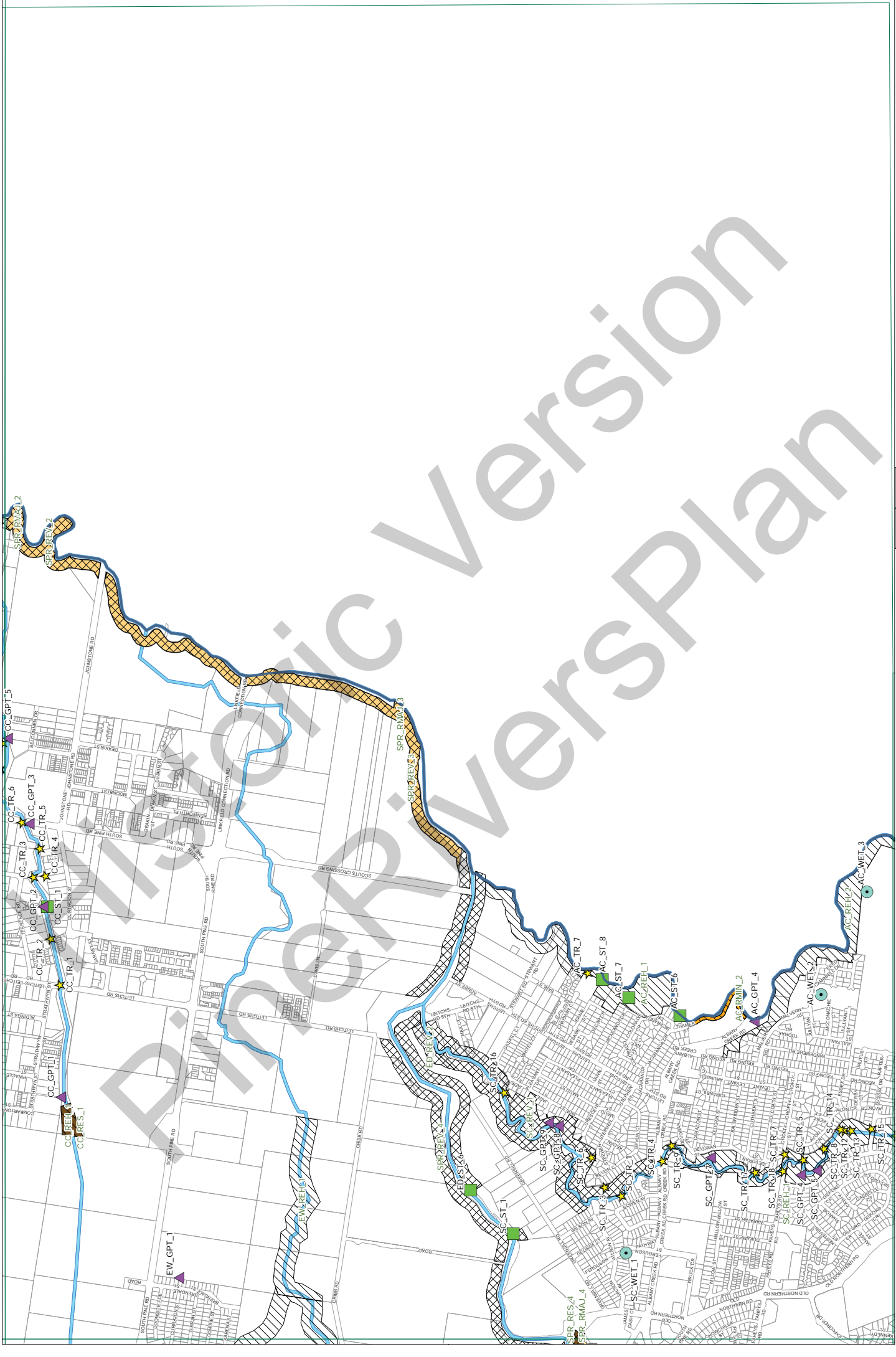


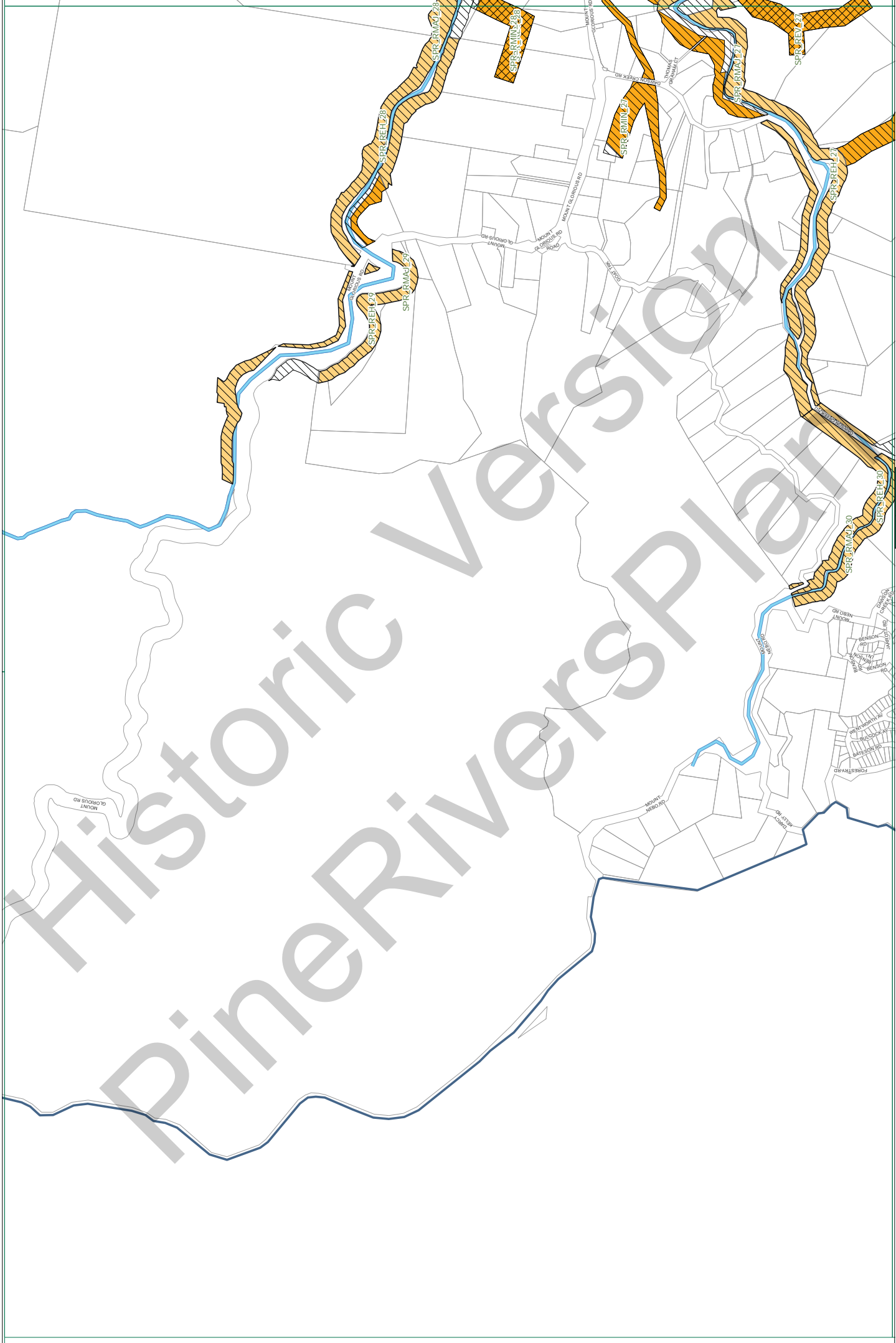
- ACMA Major
- ACMA Minor
- Association
- Other Channel Work
- Pipe Drainage
- Rehabilitation
- No Regulation

- Wetland
- Submerionalon Basin
- Devotion Basin
- Bank Stabilisation
- Interception Basin
- Retention Basin
- Swale
- Stormwater Trap
- Train Bus

- Future Infrastructure
- Stormwater Trap
- Swale
- Retention Basin
- Interception Basin
- Devotion Basin
- Submerionalon Basin
- Wetland

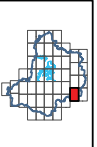
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Pine Rivers Shire
STORMWATER NETWORK PLAN
FOR TRUNK INFRASTRUCTURE
Map Number 17.4

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DEVELOPMENT CONTRIBUTIONS FOR
TRUNK INFRASTRUCTURE -
STORMWATER
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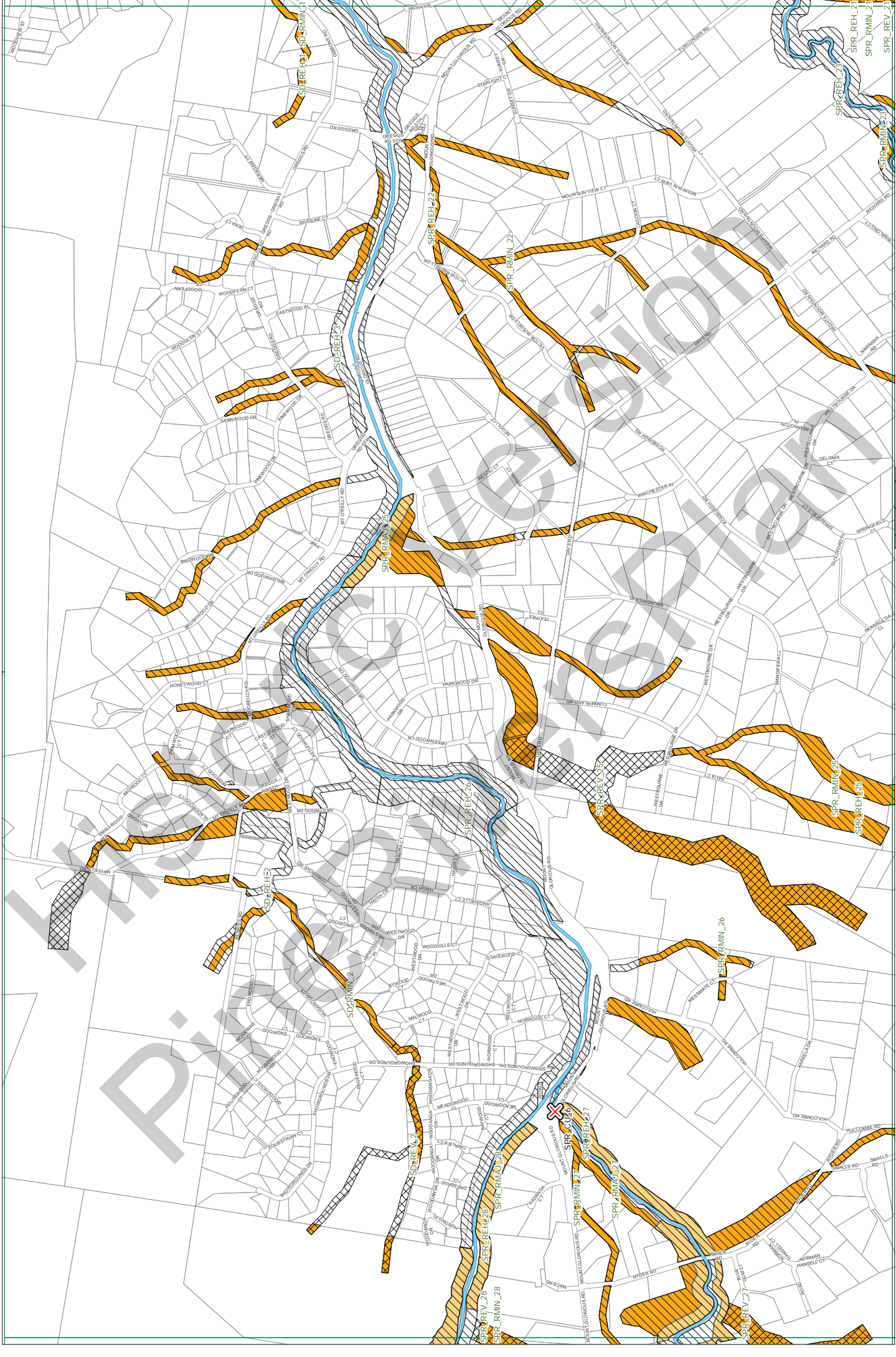
15.3	15.5	17.4	17.6
		19.4	19.6

Future Infrastructure

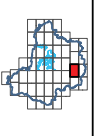
- ICMA Major
- ICMA Minor
- Association
- Other Channel Work
- Pipe Drainage
- Rehabilitation
- No Vegetation
- Wetland
- Sedimentation Basin
- Detention Basin
- Bank Stabilisation
- Inoculation Basin
- Swale
- Grp
- Soakaway
- Tram Stop
- Tram Busk
- Crossing Upgrade

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STORMWATER
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15.5	15.7
17.4	17.6
19.4	19.6
19.8	19.8

FUTURE INFRASTRUCTURE

- Bank Stabilisation (Green hatched)
- Inversion Basin (Green circle)
- Retention Basin (Green square)
- Overflow Logweir (Green X)
- Wetland (Green circle)
- Sedimentation Basin (Green circle)
- Overflow (Green square)
- FTM (Green square)
- Tram Stop (Green star)
- Open Channel Work (Orange hatched)
- Pipe Drainage (Orange hatched)
- Rehabilitation (Orange hatched)
- No Vegetation (Orange hatched)

SCHEMA

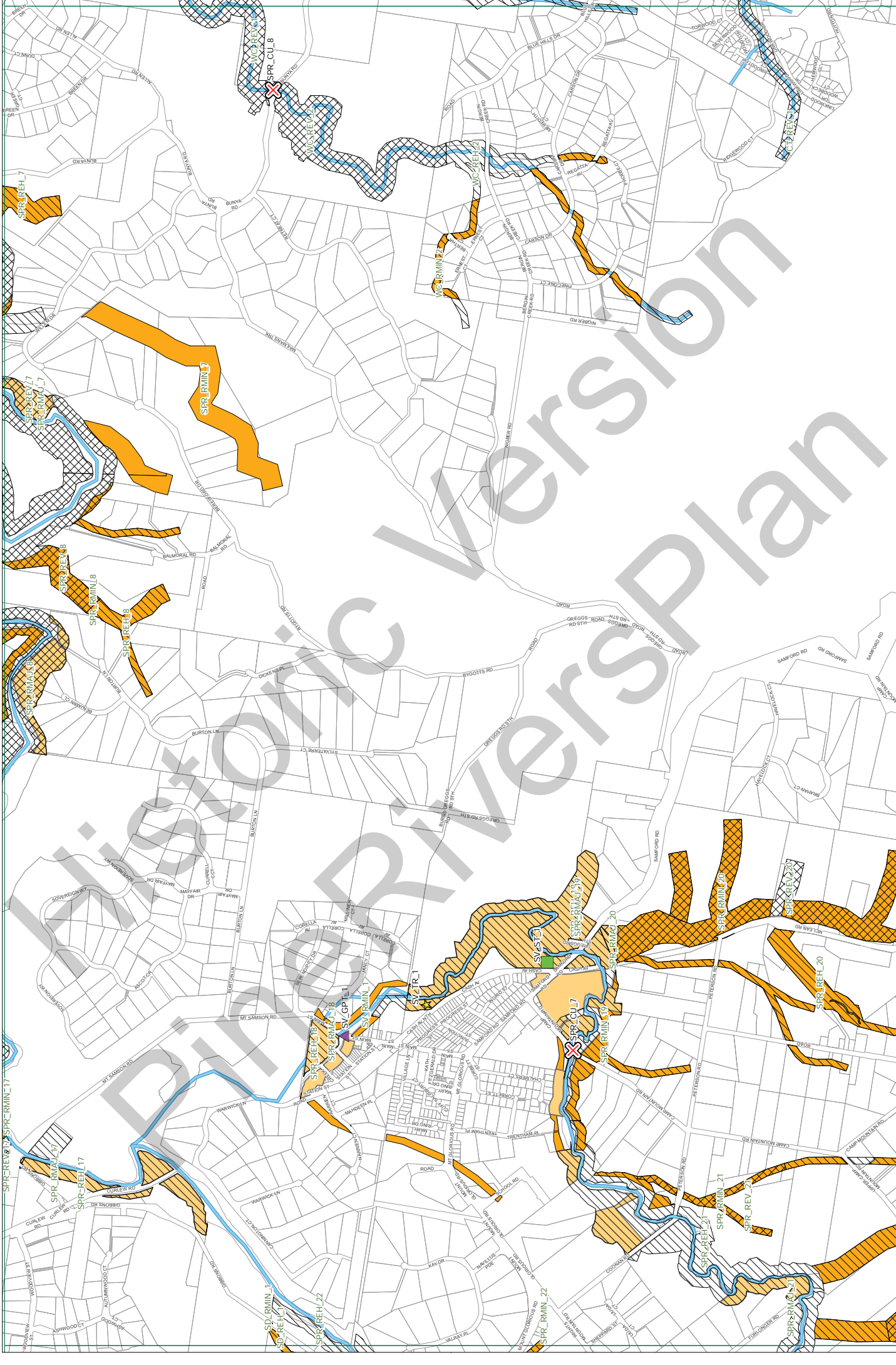
- SCMA Major (Orange hatched)
- SCMA Minor (Orange hatched)
- Assessment (Orange hatched)
- No Vegetation (Orange hatched)

Other Symbols:

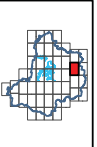
- Deivation Basin (Red diamond)
- Bank Stabilisation (Green star)
- Inversion Basin (Green circle)
- Retention Basin (Green square)
- Overflow Logweir (Green X)
- Wetland (Green circle)
- Sedimentation Basin (Green circle)
- Overflow (Green square)
- FTM (Green square)
- Tram Stop (Green star)

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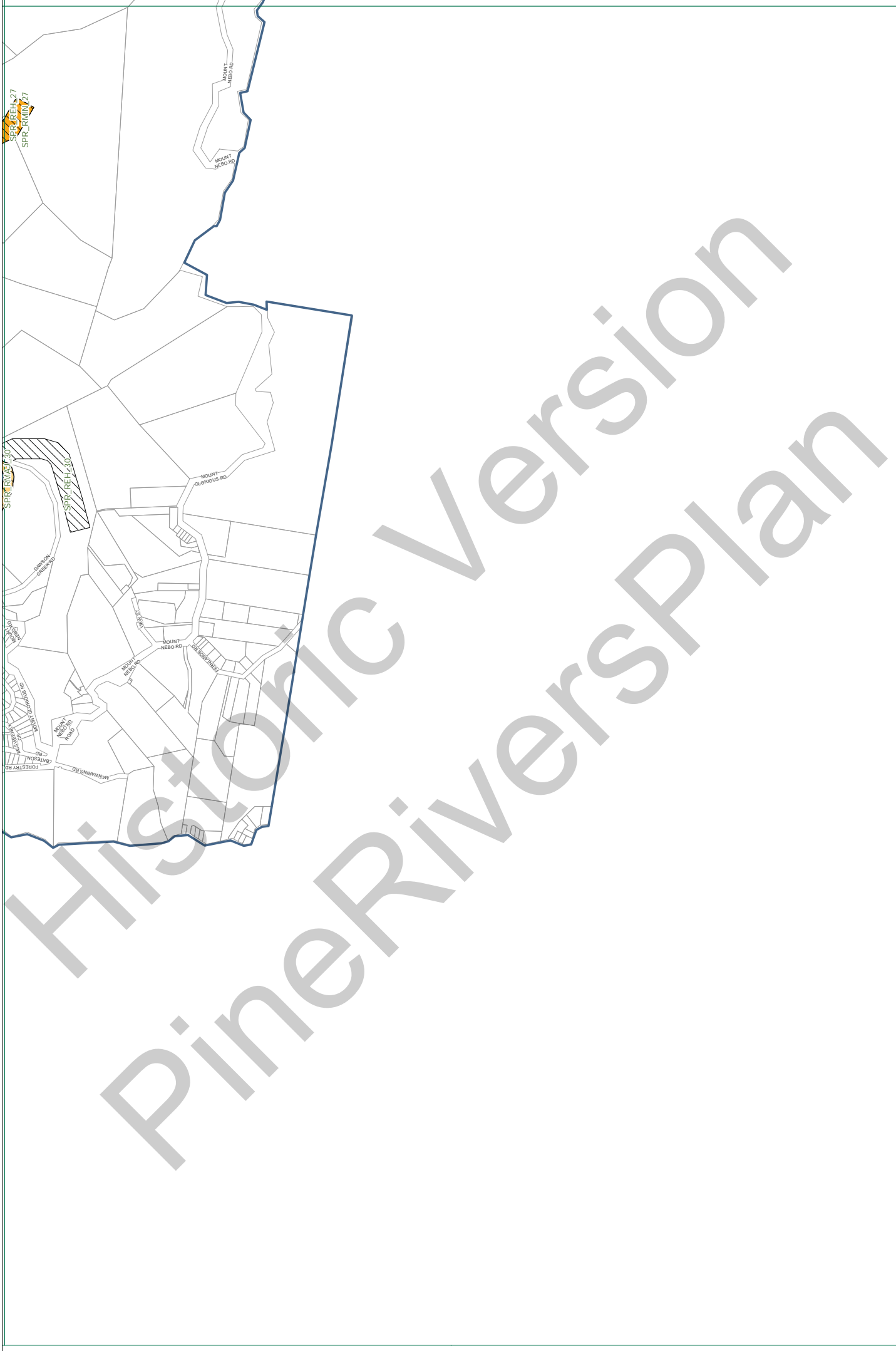


15.7	15.9
17.6	17.8
19.6	19.8
17.10	19.10

FUTURE INFRASTRUCTURE

- ECMA Major
- ECMA Minor
- Assessment
- Other Drainage Work
- Pipe Drainage
- Reconstruction
- No Realignments
- Wetland
- Redundant on Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Crossing Lograds
- Tram Stop
- Tram Bus
- GP
- Tram Stop

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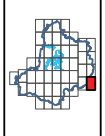


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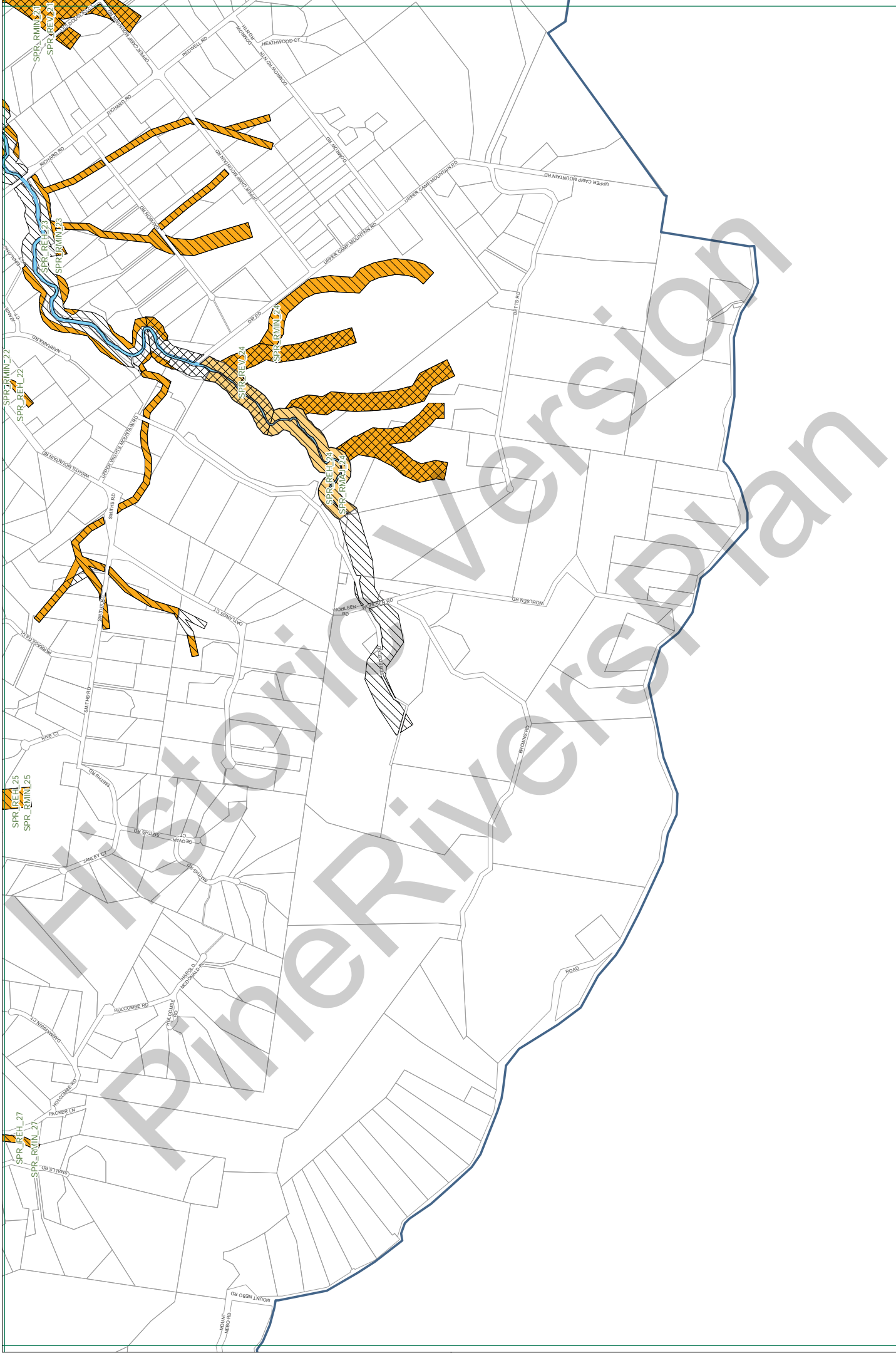
- Future Infrastructure**
- Bank Stabilisation
 - Inception Basin
 - Crossing Upgrade
 - Deviation Basin
 - Sedimentation Basin
 - Soakaway
 - Bottle
 - Trash Box
 - Wellhead
 - Other Channel Work
 - Pipe Drainage
 - Rehabilitation
 - No Rehabilitation
 - EICMA Major
 - EICMA Minor
 - Assessment

17.4	17.6
19.4	19.6



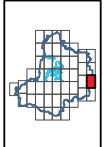
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 DEVELOPMENT CONTRIBUTIONS FOR
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 STORMWATER
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 Pine Rivers Shire
 STORMWATER NETWORK PLAN
 FOR TRUNK INFRASTRUCTURE
 Map Number 19.4



MORETON BAY REGIONAL COUNCIL
 Pine River's Shire
 STORMWATER NETWORK PLAN
 FOR TRUNK INFRASTRUCTURE
 Map Number 19.6

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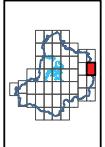
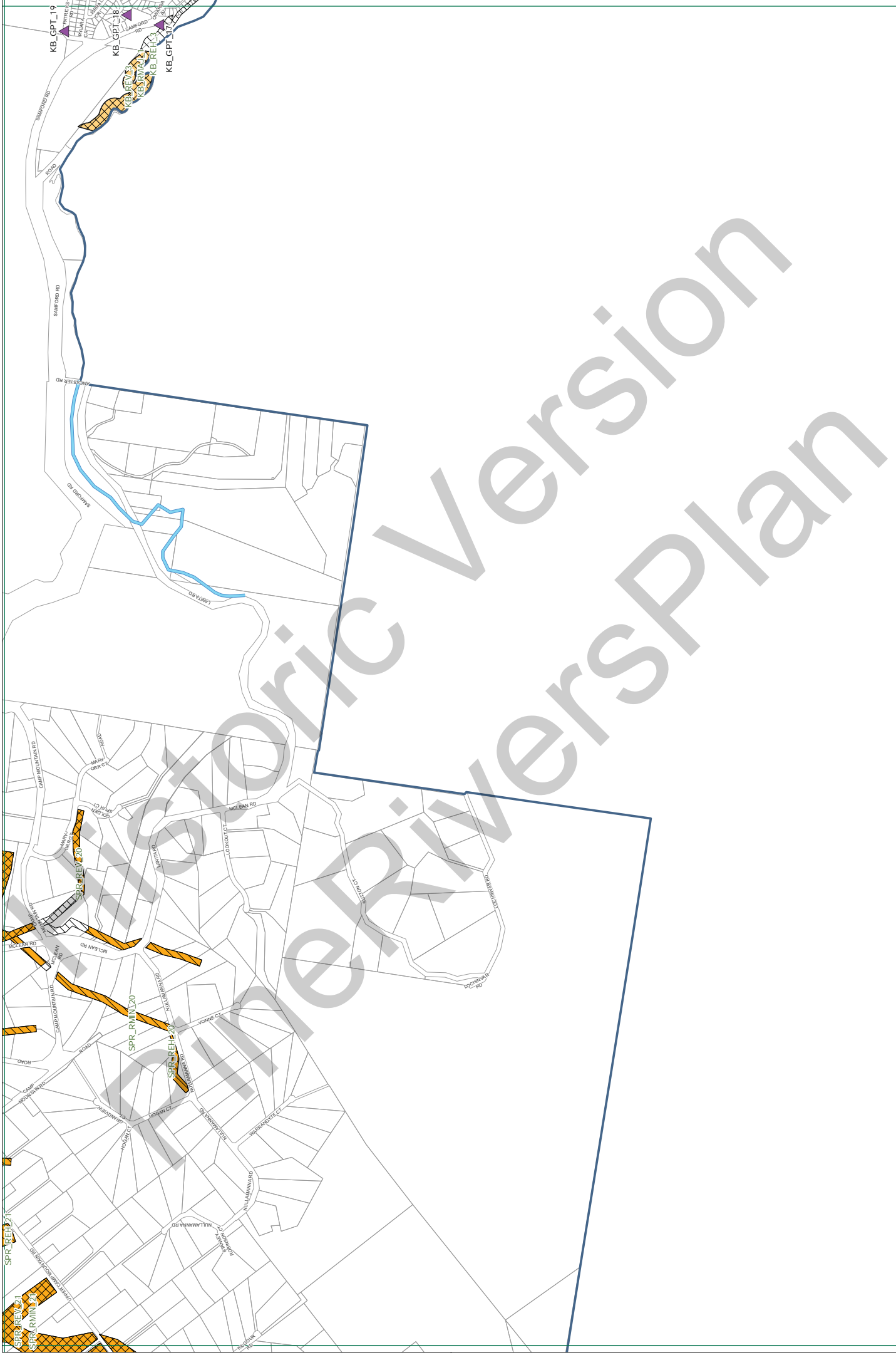
15.5	15.7
17.4	17.8
19.4	19.8

Future Infrastructure

- ECMA Major
- ECMA Minor
- Assessment
- Other Channel Work
- Pipe Drainage
- Revegetation
- No Vegetation
- Wetland
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Bank Stabilisation
- Inversion Basin
- ECMA Major
- ECMA Minor
- Assessment
- Other Channel Work
- Pipe Drainage
- Revegetation
- No Vegetation
- Wetland
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Bank Stabilisation
- Inversion Basin

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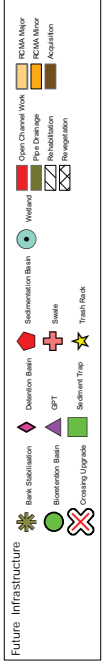
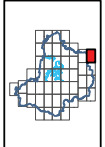
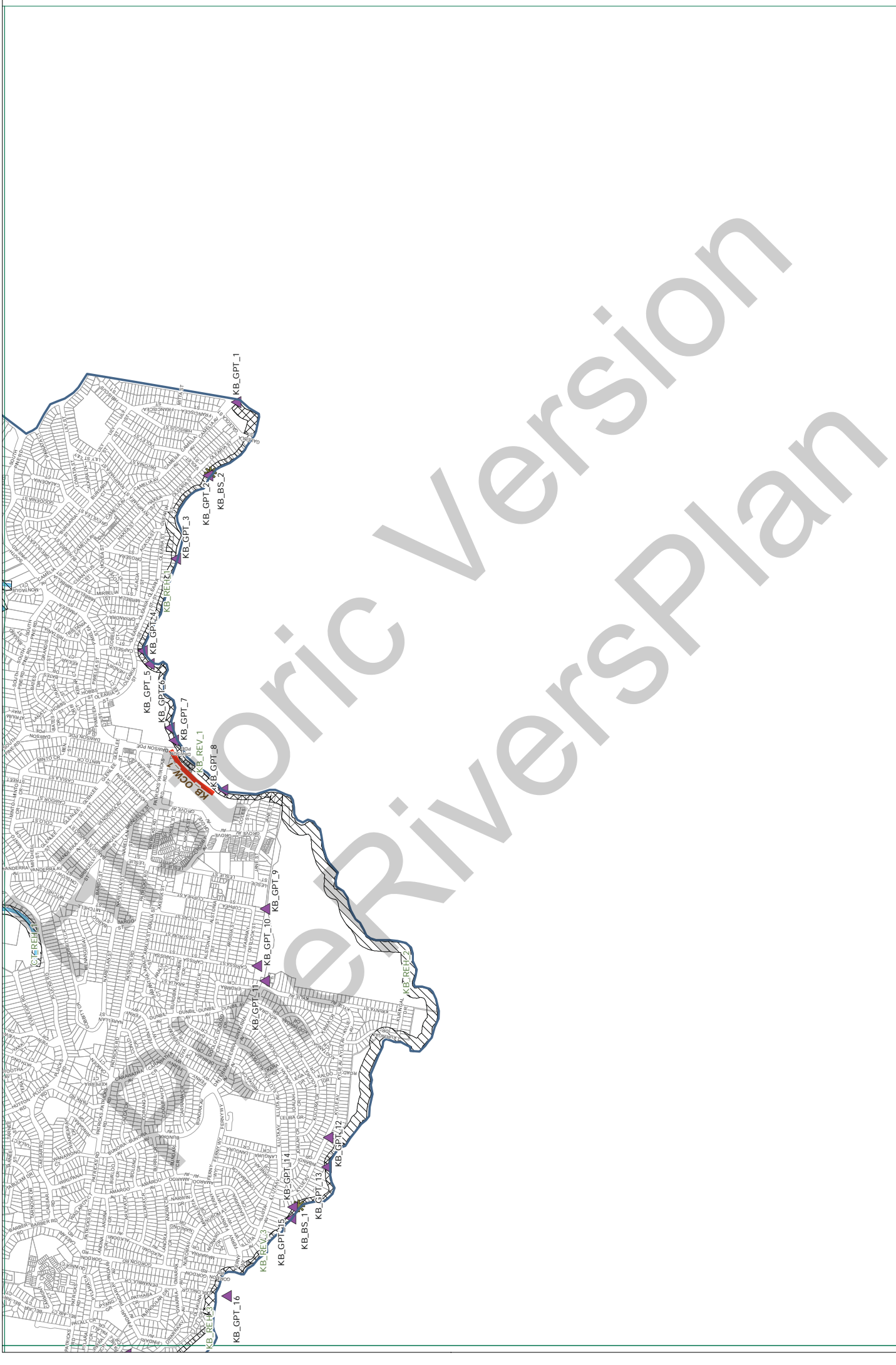


15.7	15.9	17.6	17.8	17.10
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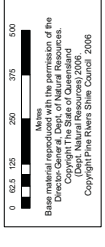
FUTURE INFRASTRUCTURE

- ECMA Major
- ECMA Minor
- Association
- Open Channel Work
- Pipe Drainage
- Rehabilitation
- No Vegetation
- Wetland
- Water
- Sedimentation Basin
- Deviation Basin
- Bank Stabilisation
- Inversion Basin
- Retention Basin
- Crossing Upgrade
- Tram Stop
- Tram Bus
- Tram Stop
- Tram Bus
- Tram Stop
- Tram Bus

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Schedule E: Desired Standards of Service

The Desired Standards of Service for the Stormwater Trunk Infrastructure network under this policy are detailed below in terms of 'Planning Requirements' and 'Design Objectives'. The 'Planning Requirements' and 'Design Objectives' were developed as a mechanism for implementing the purpose of the *Integrated Planning Act* and satisfying the relevant requirements of the *Environmental Protection Act* as well as the objectives of Council's Corporate Plan. The design objectives are the means by which the planning requirements are achieved.

Planning Requirements

Table E1 - Planning Requirements - Catchments

DESIRED STANDARD OF SERVICE	USER / COMMUNITY BENEFIT	ENVIRONMENTAL BENEFIT
<ul style="list-style-type: none"> Corporate Objectives Legal Responsibility Community Needs 	<ul style="list-style-type: none"> Community & Customer Service Quality and Safety Economic Activity Support 	<ul style="list-style-type: none"> Ecological Protection Ecosystem Rehabilitation
Provide a system of infrastructure that caters for the adequate and safe drainage of urban lands to receiving waters in a way that achieves the user/community benefit and environmental benefit listed opposite.	<ul style="list-style-type: none"> Minimises risk of inundation of habitable areas. Minimises the damage and risk associated with flooding. Provides economic use of urban landscape. Sets safe standards for the road system consistent with traffic movement and access requirements. 	
Maximise the retention and enhancement of each natural waterway in a way that achieves the user/community benefit and environmental benefit listed opposite.		<ul style="list-style-type: none"> Protects the environmental values of waterway systems. Minimises the impact of development on the ecological health of waterways. Minimises the adverse impact of development on water quality.
Optimise the use of natural waterways and overland flow paths in a way that achieves the user/community benefit and environmental benefit listed opposite.	<ul style="list-style-type: none"> Reduces the long-term costs of maintaining the waterways corridor. 	<ul style="list-style-type: none"> Protects areas of natural riparian vegetation in key habitat areas. Provides for faunal movement and migration. Reduces the risk of streambank erosion.
Optimise the provision of infrastructure in a way that achieves the user/community benefit and environmental benefit listed opposite, taking into account the use of Water Sensitive Urban Design techniques.	<ul style="list-style-type: none"> Provides waterway infrastructure at least life cycle cost. Reduces the scale of infrastructure by maintaining existing hydrological parameters, such as flows, flow velocities and patterns. Improves water quality and waterways health. 	<ul style="list-style-type: none"> Improves water quality at the point of discharge. Controls peak flows and thereby reduces the potential for erosion and sedimentation.
Retention of riparian land in rural areas for stormwater runoff and treatment in a way that achieves the user/community benefit and environmental benefit listed opposite.	<ul style="list-style-type: none"> Minimises risk of inundation to habitable areas. Stabilise adjacent productive land. 	<ul style="list-style-type: none"> Minimises the adverse impact of rural activities and development on the ecological health of waterways. Minimises the adverse impact of rural activities and development on water quality.
Provide a system of stormwater infrastructure capable of removing harmful pollutant concentrations and loads in a way that achieves the user/community benefit and environmental benefit listed opposite.	<ul style="list-style-type: none"> Minimises risk of unsafe stream, river and ocean water for human contact 	<ul style="list-style-type: none"> Minimises adverse impact of development on stream and receiving environment water quality. Optimises aquatic health and stream ecology and bio-diversity.

Table E2 - Planning Requirements - Waterways

DESIRED STANDARD OF SERVICE	USER / COMMUNITY BENEFIT	ENVIRONMENTAL BENEFIT
<ul style="list-style-type: none"> Corporate Objectives Legal Responsibility Community Need 	<ul style="list-style-type: none"> Community & Customer Service Quality and Safety Economic Activity Support 	<ul style="list-style-type: none"> Ecological Protection Ecosystem Rehabilitation
<p>Conveyance of the design runoff in an allocated waterway corridor in a way that achieves the user/community benefit and environmental benefit listed opposite. Corridors shall preferably incorporate natural channels and floodplains.</p>	<ul style="list-style-type: none"> Minimises risk of inundation of habitable areas. Minimises the damage and risk associated with flooding. Reduces the cost of flood damage to the community. 	<ul style="list-style-type: none"> Maintains the natural functions of creeks and floodplains. Reduces environmental damage due to flooding by maintaining the natural functions of floodplains.
<p>Rehabilitate degraded waterway banks and floodplains through planting of native vegetation, erosion treatment measures and natural channel design features in a way that achieves the user/community benefit and environmental benefit listed opposite.</p>	<ul style="list-style-type: none"> Ensures reasonable levels of water quality and turbidity in waterways are not exceeded. 	<ul style="list-style-type: none"> Protects environmentally sensitive areas from development. Enhances nature conservation by retaining riparian areas for environmental purposes. Minimises the adverse impact of development on waterways health.
<p>Cater for long term morphological processes, such as erosion and sedimentation in a way that achieves the user/community benefit and environmental benefit listed opposite, by allowing sufficient width within waterway corridors.</p>	<ul style="list-style-type: none"> Minimises the impact of erosion or sedimentation on private property. Reduces the need for costly structural treatments of waterway banks. 	<ul style="list-style-type: none"> Provides for natural processes of erosion and sedimentation.
<p>Maintain, where possible, the design runoff at natural flow rates using regional detention facilities in a way that achieves the user/community benefit and environmental benefit listed opposite.</p>	<ul style="list-style-type: none"> Controls the impact of flow rate increase on downstream landholders. 	<ul style="list-style-type: none"> Minimises the impact of peak flow rate increase on natural waterways.

Table E3 - Planning Requirements - Overland Flow Systems

DESIRED STANDARD OF SERVICE	USER / COMMUNITY BENEFIT	ENVIRONMENTAL BENEFIT
<ul style="list-style-type: none"> • Corporate Objectives • Legal Responsibility • Community Need 	<ul style="list-style-type: none"> • Community & Customer Service • Quality and Safety • Economic Activity Support 	<ul style="list-style-type: none"> • Ecological Protection • Ecosystem Rehabilitation
<p>Convey floodwater from the local catchment by a network of underground pipes, natural channels and overland flow paths in a way that achieves the user/community benefit and environmental benefit listed opposite. This is to be achieved without adversely impacting on properties or compromising environmental values associated with the flow paths and at an appropriate design runoff rate.</p>	<p>Ensures habitable areas are protected from inundation.</p>	<p>Promotes the protection of environmentally sensitive areas.</p>
<p>Design of the overland flow system is to comply with established codes and local authority standards which achieve the user/community benefit and environmental benefit listed opposite.</p>	<p>Provides an optimal balance of underground pipes, natural channels and overland flow paths in order to achieve economic land use.</p>	<p>Promotes the retention of natural channels or rehabilitation of existing natural flow paths.</p>
<p>Minimise any increase in flow rate in a way that achieves the user/community benefit and environmental benefit listed opposite utilising local and on-site detention facilities where appropriate.</p>	<ul style="list-style-type: none"> • Minimises adverse impacts from flooding for existing and future developments. • Optimises the size of waterway corridors and underground drainage. 	<ul style="list-style-type: none"> • Minimises the impact on the environmental values of downstream waterways by maintaining natural flows and velocities. • Minimises channel erosion by the reduction of flow velocities.
<p>Minimise the discharge of pollutant materials from point and non-point sources in a way that achieves the user/community benefit and environmental benefit listed opposite.</p>	<ul style="list-style-type: none"> • Minimises the risk of human, animal or ecosystem contact with unsafe or polluted water in streams, rivers or ocean waters. 	<ul style="list-style-type: none"> • Minimises adverse impact of development on stream and receiving environment water quality. • Maintains aquatic health as well as sustainable stream ecology and bio-diversity.

Table E4 - Planning Requirements - Waterway Crossings

DESIRED STANDARD OF SERVICE	USER / COMMUNITY BENEFIT	ENVIRONMENTAL BENEFIT
<ul style="list-style-type: none"> Corporate Objectives Legal Responsibility Community Need 	<ul style="list-style-type: none"> Community & Customer Service Quality and Safety Economic Activity Support 	<ul style="list-style-type: none"> Ecological Protection Ecosystem Rehabilitation
Design culverts and bridges with appropriate flood immunity and capacity to convey floodwater, in a way that achieves the user/community benefit and environmental benefit listed opposite	<ul style="list-style-type: none"> Ensures road crossings operate safely in times of inundation. Reduces the risk of flooding for upstream properties 	
Upgrading of bridges and culverts is carried out in a manner that does not adversely impact on the natural environment, such as through the loss of vegetation or undesirable impacts on bio-diversity, and in a way that achieves the user/community benefit and environmental benefit listed opposite		Minimises environmental impact.

Design Objectives

Design Criteria shall be as shown in the Tables E5 to E8, unless noted otherwise in Catchment Management Plans/Master Drainage Reports and/or by detailed Engineering Analysis. For additional explanation of the Design Criteria, refer to the Pine Rivers Shire Council Stormwater Drainage Design Standards found in Planning Scheme Policy PSP 28 “Civil Infrastructure Design”.

Table E5 - Design Objectives - Flooding of Habitable Areas

DESIGN ISSUE	DESIGN CRITERIA		
FLOOD IMMUNITY	MAJOR DRAINAGE SYSTEM		
	Zone	Design ARI (years)	
	All	100	
	MINOR DRAINAGE SYSTEM		
	Zone	Design ARI (years)	
	Central Business, Commercial, Local Business, Neighbourhood Facilities	10	
	Service Industry, General Industry, Home Industry	5	
	Residential B	5	
	Residential A, Special Residential (Urban), Future Urban	5	
	Special Residential (non urban), Park Residential, Rural Residential, Rural	5	
	Park and Open Space, Sports and Recreation where length of drain is:	< 50m – adopt 5 > 50m enhance open watercourse (see Note 3)	
MAJOR DRAINAGE SYSTEM REQUIREMENTS			
	Town Planning Zone		
	Urban, Rural Residential, Rural Area	Park Area	
Minimum requirements	An overland flow system for runoff in excess of the capacity of the pipe system, such that the design flow is carried through the subdivision or development clear of, and with required freeboard to, allotments/buildings	Major system flows are contained within the park area.	
DEVELOPMENT LEVELS	Zone	Min. Area within Allotment	Minimum Development Levels
	General Industry, Service Industry	4000 m ²	Q100 + freeboard
	Residential A, Residential B, Special Residential, Future Urban, Neighbourhood Facilities, Local Business, Central Business, Home Industry, Commercial	2000 m ²	Q100 + freeboard
	Park Residential, Rural Residential, Rural, Future Rural Living	1500 m ²	Q100 + freeboard
MINIMUM FREEBOARD	Flooding Source	Minimum Freeboard	
	Existing Natural Watercourse	Greater of -750mm; and - the highest recorded flood level + 750mm – calculated Q100 flood level	
	Engineered Channels	Greater of -500mm; and - flood level in unmaintained channel + 250mm – flood level of maintained channel	
	Urban Road Drainage	Greater of -250mm; and - 150mm + difference in level due to blocked catchpits or inlets.	
	Overland Flowpaths	Greater of -250mm; and - flood level in unmaintained flow path + 150mm – flood level of maintained flow path	
	For Major Storm (a) Where floor levels of adjacent buildings are above road level	(i) Total flow contained within road reserve (ii) Freeboard > 250mm to floor level of adjacent buildings, and with maximum flow depth of 200mm	(i) Total flow contained within road reserve (ii) Freeboard ≥ 250mm to floor level of adjacent buildings, and with maximum flow depth of 300mm

DESIGN ISSUE	DESIGN CRITERIA		
	(b) Where floor levels of adjacent buildings are below or less than 300mm above road level (i) where 100mm fall on footpath towards kerb; (ii) where less than 100mm fall on footpath towards kerb; (c) other.	50mm above top of kerb Top of kerb As determined by Council's Engineer	50mm above top of kerb Top of kerb As determined by Council's Engineer

Table E6 - Design Objectives – Roadways

DESIGN ISSUE	DESIGN CRITERIA		
FLOOD IMMUNITY	Design ARI (years)		
	Major Road	Kerb and Channel Flow	50
		Cross Drainage (Culverts)	50
	Minor Road	Kerb and Channel Flow	Refer to relevant development category (satisfy highest ARI of abutting zones)
		Cross Drainage (Culverts)	10
Bikeway	Cross Drainage	2	
SAFETY	Roadway Inundation Flow Width and Velocity Limitation		
	Major Roads		Minor Roads
	Normal situation, inundation limited to parking lane width (usually 2.5m) or breakdown lane width. Where no K&C – the minor storm should be contained in table drain		(i) for K&C – Full pavement width inundation with zero depth at crown; where no K&C – inundation contained within table drain (ii) Where one way crossfall, inundation to high side of road pavement but not above top of kerb on low side
	Where parking lane is likely to be replaced by a through, acceleration, deceleration or turn lane = 1.0m		Not applicable
	Where road falls towards median = 1.0m		Where road falls towards median = Not applicable.
	Pedestrian crossing or bus stops = 0.45m		Pedestrian crossing or bus stops = 0.45m
	At intersection kern returns (including entrances to shopping centres and other major developments) = 1.0m (3) (4)		At intersection kerb returns (including entrances to shopping centres and other major developments) = 1.0m (3) (4)
	Pedestrian Safety (Major and Minor Storms) (a) No obvious danger = $\leq 0.6 \text{ m}^2/\text{s}$ (b) Obvious danger = $\leq 0.4 \text{ m}^2/\text{s}$		Pedestrian Safety (Major and Minor Storms): (a) No obvious danger = $\leq 0.6 \text{ m}^2/\text{s}$ (b) Obvious danger = $\leq 0.4 \text{ m}^2/\text{s}$
	Vehicle Safety = $\leq 0.6 \text{ m}^2/\text{s}$		Vehicle Safety = $\leq 0.6 \text{ m}^2/\text{s}$

Table E7 - Design Objectives - Detention Areas

DESIGN ISSUE	DESIGN CRITERIA	
	Design Parameter	Criteria
FLOOD IMMUNITY	ARIs to be investigated for analysis	1, 5, 20 and 100 for critical durations
SAFETY	Depth / ARI	1.2m for 5 year event 1.5m for 20 year event 2.0m for 100 year event
	Structural Stability of outlet	Check under PF. conditions
	Basin Batter Slopes	1V:4H max
	Spillway Embankment Slopes	1V:6H max
	Minimum Spillway Width	3 metres
	Minimum Crossfall	1:100 - Multi Use Detention Basins (Playing Fields, Parks etc)
	Desired Crossfall	1:70 - Multi Use Detention Basins (Playing Fields, Parks etc)

DESIGN ISSUE	DESIGN CRITERIA	
	Max. Crossfall Length	70 metres - Multi Use Detention Basins (Playing Fields, Parks etc)
	Drainage Location	Sited along perimeter - Multi Use Detention Basins (with Single Playing Fields)
	Crown Location	Along longest centreline - Multi Use Detention Basins (with Single Playing Fields)

Table E8 - Design Objectives - Environmental

DESIGN ISSUE	DESIGN CRITERIA
WATERWAY BANK STABILITY	Existing watercourses or drainage features shall be re-vegetated with native species. An investigation into the stability of banks is required to ensure that no allotments will be subject to erosion or landslip. The investigation needs to cover site geology, stream hydraulics, creek morphology and remediation of buffer works.
WATERWAY HEALTH	<ul style="list-style-type: none"> Receiving Water Quality standards shall be in accordance with the ANZECC standards. Oil/Grit Separators are to be provided for carparks or hardstand areas of Commercial or Industrial developments where other catchment based water quality treatment devices are not available. Council standard weir type sediment and trash traps are to be provided on all outlets of stormwater drainage pipes serving catchments greater than 2 hectares. GPTs designed for the collection and easy removal of sediment and trash are to be provided on the outlets of stormwater drainage systems serving catchments greater than 5 hectares. All detention basins are to include a low flow water quality treatment facility. The minimum storage time is 24 hours and the maximum storage time is 48 hours. Water Quality Control Ponds, Lakes and/or Artificial Wetlands are to be incorporated into developments that are traversed by a natural drainage feature. Generally, these facilities will be applicable to subdivisional developments which are in excess of five (5) hectares or where Council's Engineer determines that the development will have a detrimental effect on the quality of the receiving waters. Existing watercourses or drainage features shall be re-vegetated with native species in accordance with an approved landscaping plan.

REVIEW TRIGGERS

This policy is reviewed internally for applicability, continuing effect and consistency with related documents and other legislative provisions when any of the following occurs:

- (1) The related documents are amended;
- (2) The related documents are replaced by new documents;
- (3) Amendments which affect the allowable scope and effect of a policy of this nature are made to the head of power; and
- (4) Other circumstances as determined from time to time by a resolution of Council.

RESPONSIBILITY

This policy is to be:

- (1) implemented by the Manager Development Services; and
- (2) reviewed and amended in accordance with the "Review Triggers" by the Senior Manager Strategic Direction and Sustainability in consultation with the Senior Manager Development Services, the Senior Manager Regional and Environmental Planning and the Senior Manager Infrastructure Management.

VERSION CONTROL

CEO Approval Date

15/09/2009

Related Links:

ENDNOTES

Amendment No – 2/2008	Date Adopted – 19 August 2008	Effective Date – 1 September 2008
Planning Scheme Policy Reference	Description of Amendment	
PSP 24	<ul style="list-style-type: none"> ▪ To reflect updated network planning ▪ Update infrastructure contribution rates ▪ Incorporate additional material, for example, desired standards of service ▪ Re-wording and restructuring of the document to improve readability 	

Amendment No – 1/2009	Date Adopted – 8 September 2009	Effective Date – 29 October 2009
Planning Scheme Policy Reference	Description of Amendment	
PSP 24	<ul style="list-style-type: none"> ▪ To reflect updated network planning ▪ Update infrastructure cost estimates ▪ Update infrastructure mapping ▪ Incorporate discounted cash flow methodology for the calculation of contribution rates 	