

Upgrade Gwydir Highway to four lanes between Pacific Highway and Bent Street

Pedestrian and cycle path connection to existing network from Bent Street and Crisp Avenue

lolanthe Street widened to four lanes

New signalled pedestrian crossing

New roundabout

'T' intersection for Butters Lane

Diversion of existing Pacific Highway

New pedestrian and cycle path on existing right of way

Left in, left out only

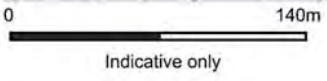
Existing Pacific Highway

New signalled pedestrian crossing

Spring Street restricted to left-in left-out only at lolanthe Street

Future pedestrian / cycle connection to Clarence (proposed by others)

New roundabout



### Legend

- Road design
- Pedestrian and cycle path
- Embankment
- Medians
- Indicative road boundary
- Existing levees
- Directly affected buildings
- Existing buildings





GRAFTON

North Coast TAFE Grafton Campus

New traffic lights

CLARENCE RIVER

ALIPQU CREEK

SOUTH GRAFTON

New signalised pedestrian crossing

Visitor Information Centre

Bunging Waterhouse

New signalised pedestrian crossing

Dobie Street / Villiers Street intersection

**Key**

-  Road design
-  Embankment
-  Proposed pedestrian and cycle path route
-  Primary destination zone
-  Secondary destination zone
-  General access route
-  Recreational off road route
-  Regional cycling route (Coastline cycleway route)

0 140m  
Indicative only

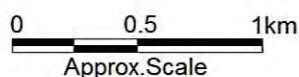


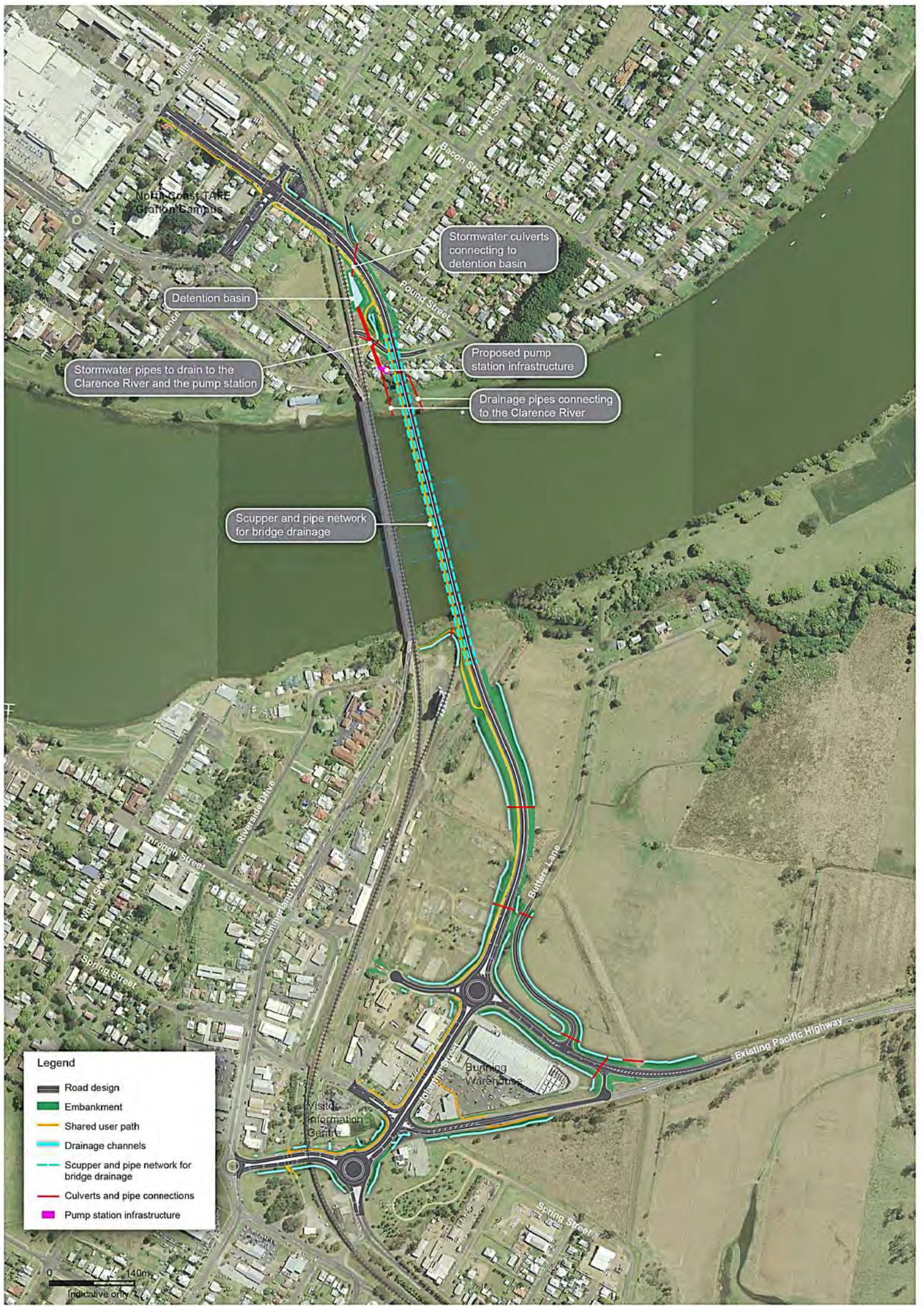
Title:  
**Mitigation: Levee Sections for Targeted Raising**

Figure:  
**3-22**

Rev:  
**A**

BMT WBM endeavours to ensure that the information provided in this map is correct at the time of publication. BMT WBM does not warrant, guarantee or make representations regarding the currency and accuracy of information contained in this map.





North Coast TAFE  
Graton Campus

Detention basin

Stormwater pipes to drain to the  
Clarence River and the pump station








Stormwater culverts  
connecting to  
detention basin

Proposed pump  
station infrastructure

Drainage pipes connecting  
to the Clarence River

Scupper and pipe network  
for bridge drainage

**Legend**

-  Road design
-  Embankment
-  Shared user path
-  Drainage channels
-  Scupper and pipe network for  
bridge drainage
-  Culverts and pipe connections
-  Pump station infrastructure

0 140m

Indicative only

Villiers Street

Clarence

Bacon Street

Oliver Street

Wain Street

Hamley Street

Found Street

Through Street

Spring Street

Summerland Way

Riverside Drive

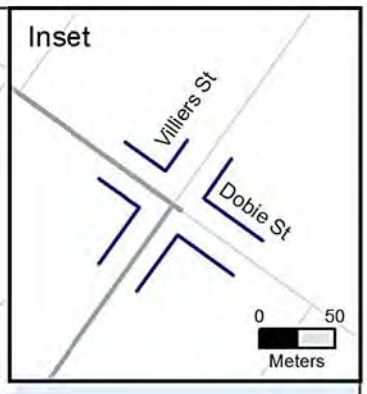
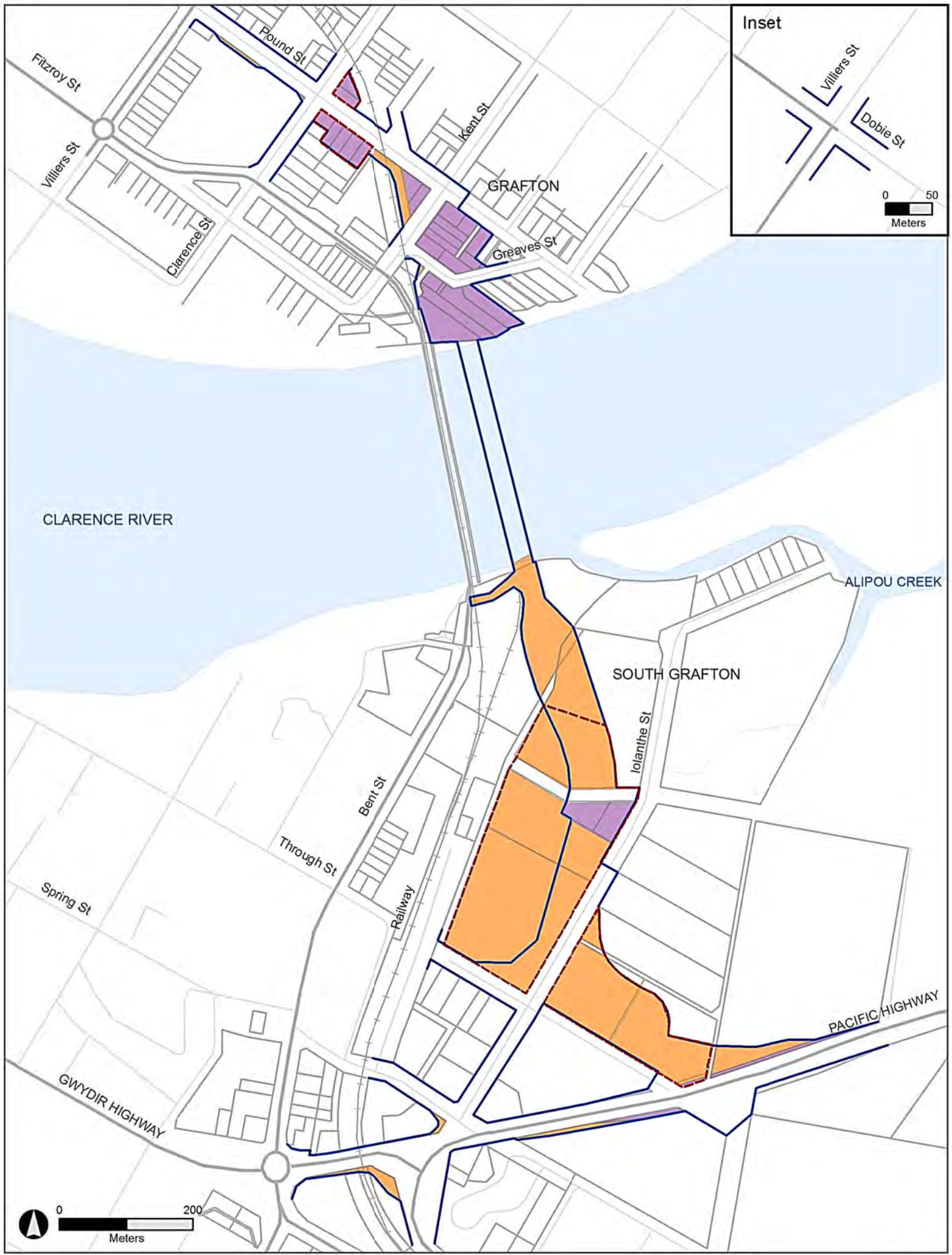
Butters Lane






Visitor  
Information  
Centre

Burning  
Warehouse

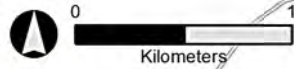
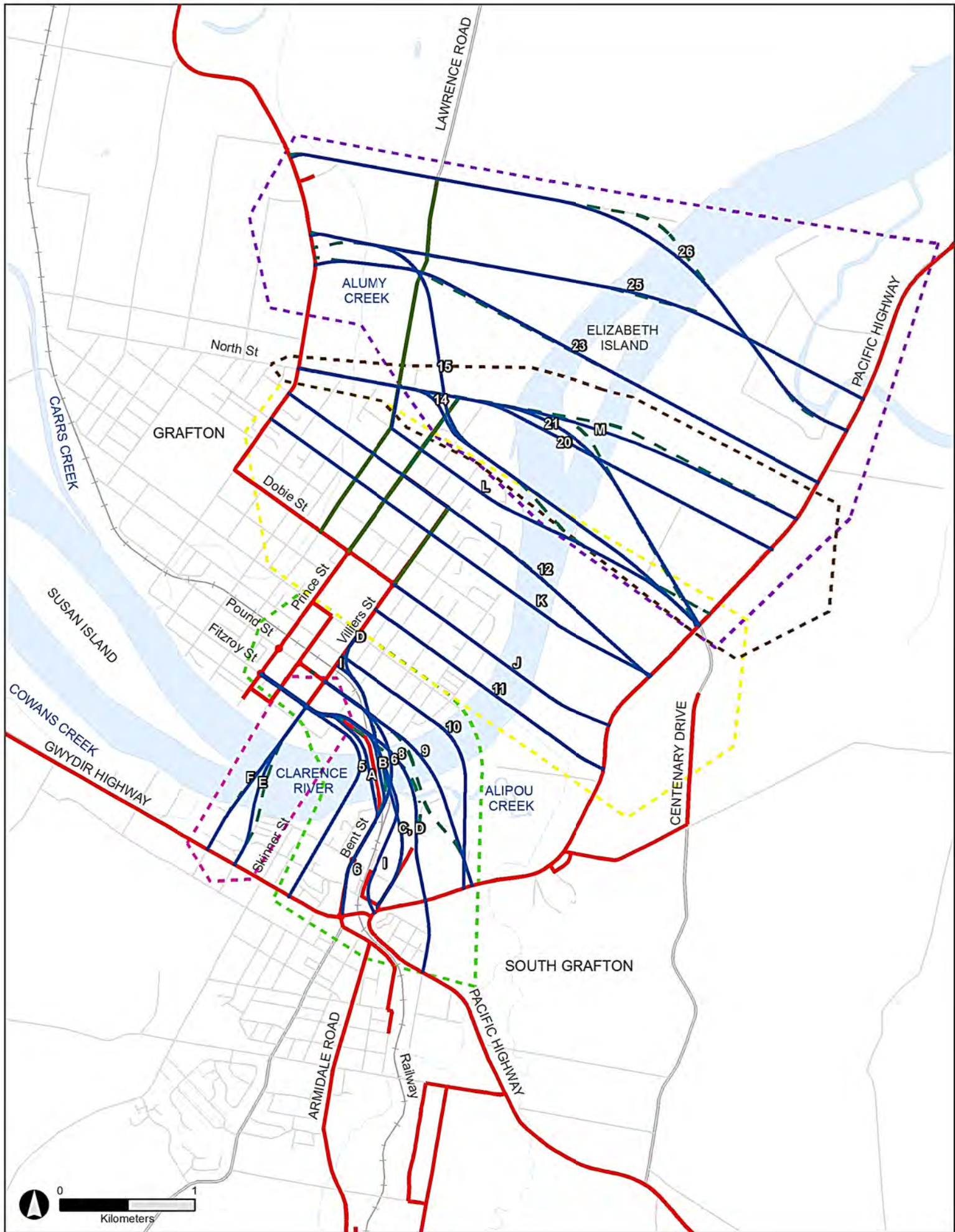
Spring Street

Existing Pacific Highway



- |  |                          |   |
|--|--------------------------|---|
|  | Indicative road boundary | <b>Extent of impact</b>   |
|  | Ancillary sites          |  Partial |
|  | Cadastral survey         |  Total   |



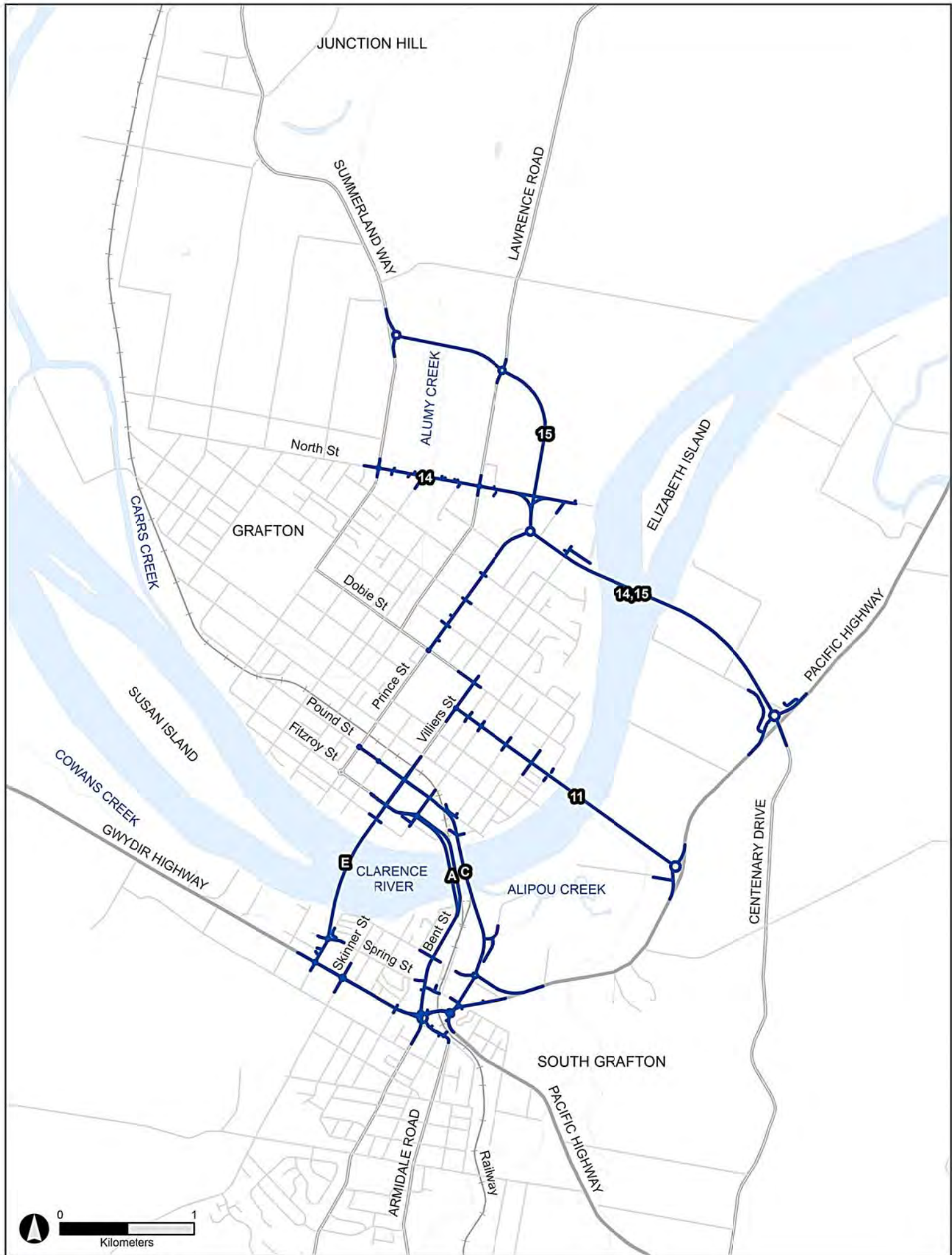


— 25 preliminary route options

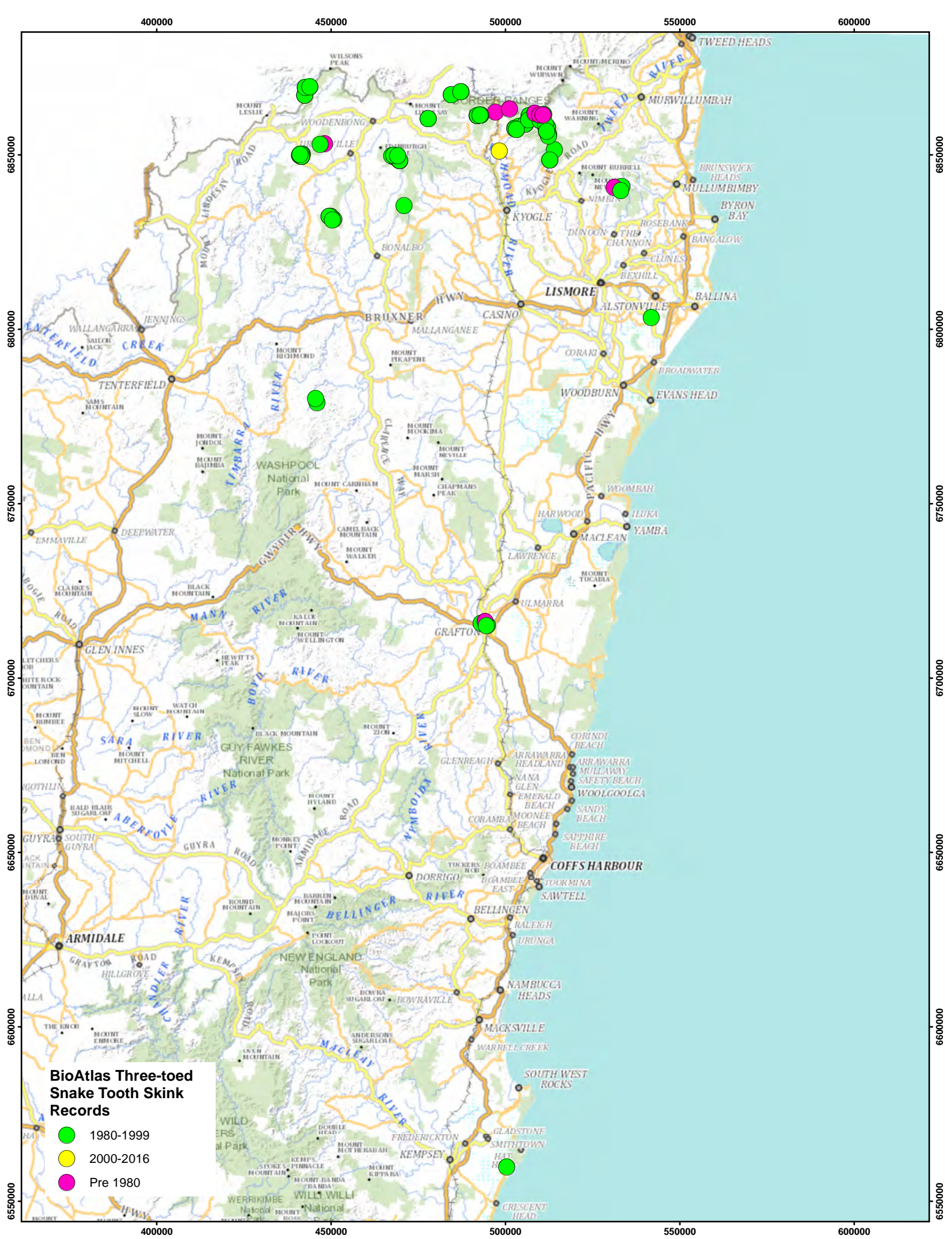
- - - Option alignment as shown in June 2011 Community Update

— Link to CBD - Road upgraded for heavy vehicle access:  
 Queen Street - Options 23, 25 and 26  
 Prince Street - Options L, 14, 15, 20, 21 and M  
 Villiers Street - Options K and 12

- Corridor 1
- Corridor 2
- Corridor 3
- Corridor 4
- Corridor 5



— Shortlisted route options



**BioAtlas Three-toed Snake Tooth Skink Records**

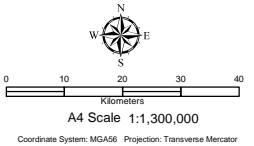
- 1980-1999
- 2000-2016
- Pre 1980

**Figure 3-2: DISTRIBUTION OF THREE-TOED SNAKE TOOTH SKINK (*SAIPHOS RETICULATUS*) IN NSW**

Source: Base Map: (C) NSW Land & Property Information 2016  
 the BioNet Atlas of NSW Wildlife website 2016  
 Distribution of Three-toed Snake Tooth Skink Data from

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File: 2751516-FIG3-2-TTSTS-NSW-160419





492000

493000

494000

495000

6718000

6718000

6717000

6717000

6716000

6716000

6715000

6715000

6714000

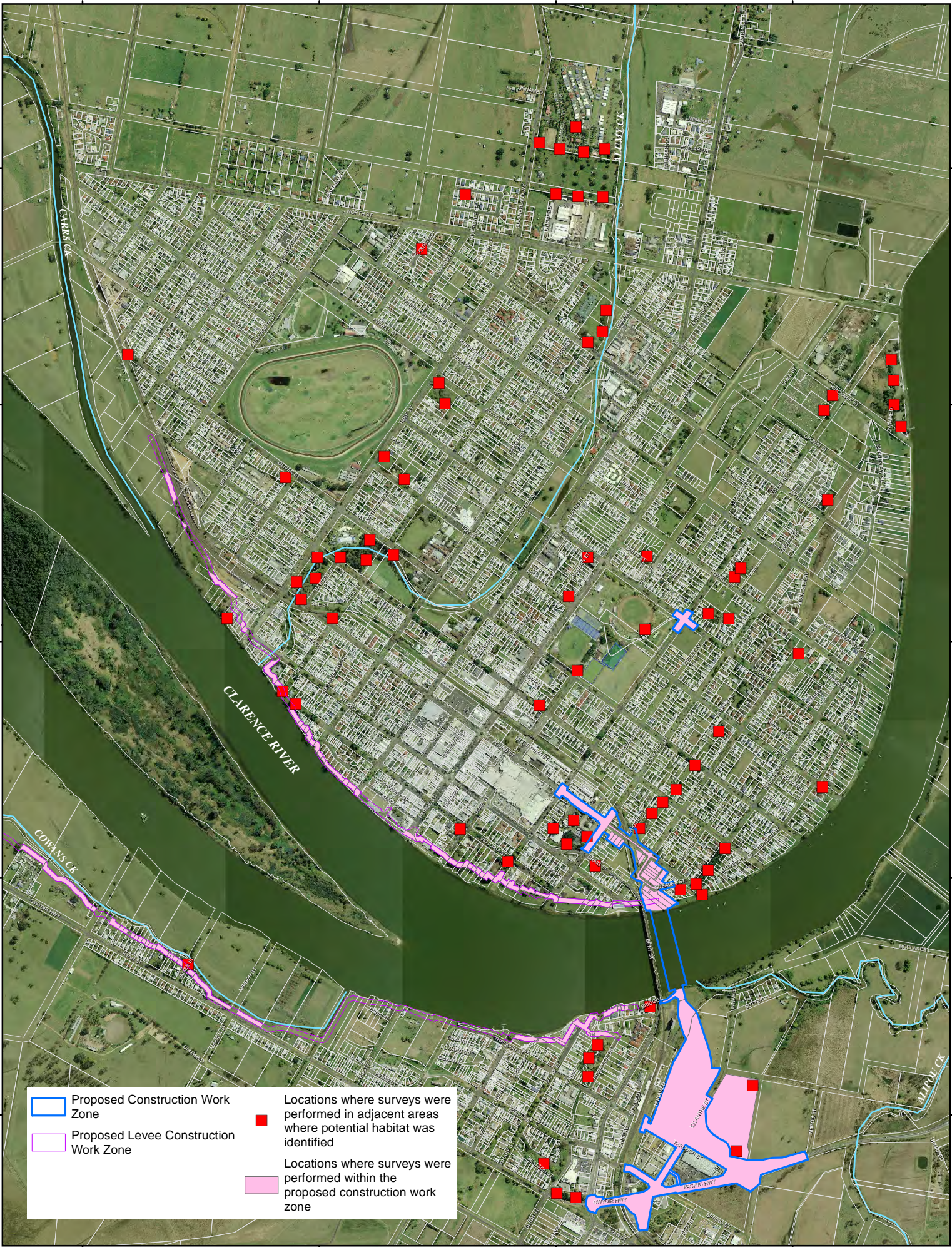
6714000





492000

493000

494000

495000



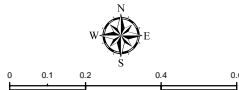
 Proposed Construction Work Zone	 Locations where surveys were performed in adjacent areas where potential habitat was identified
 Proposed Levee Construction Work Zone	 Locations where surveys were performed within the proposed construction work zone



Source: Aerial Photo: RMS September 2010  
 Work Zones: RMS 2015  
 Cadastral database: RMS 2015

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File: 2751516-FIG2-1-TTST-SurveySites-160429



0 0.1 0.2 0.4 0.6  
 Kilometers

A4 Scale 1:20,000

Coordinate System: MGA56 Projection: Transverse Mercator

**Figure 2-1:**  
**DISTRIBUTION OF THREE-TOED SNAKE TOOTH SKINK SURVEY SITES**

493000

494000

495000

6718000

6718000

6717000

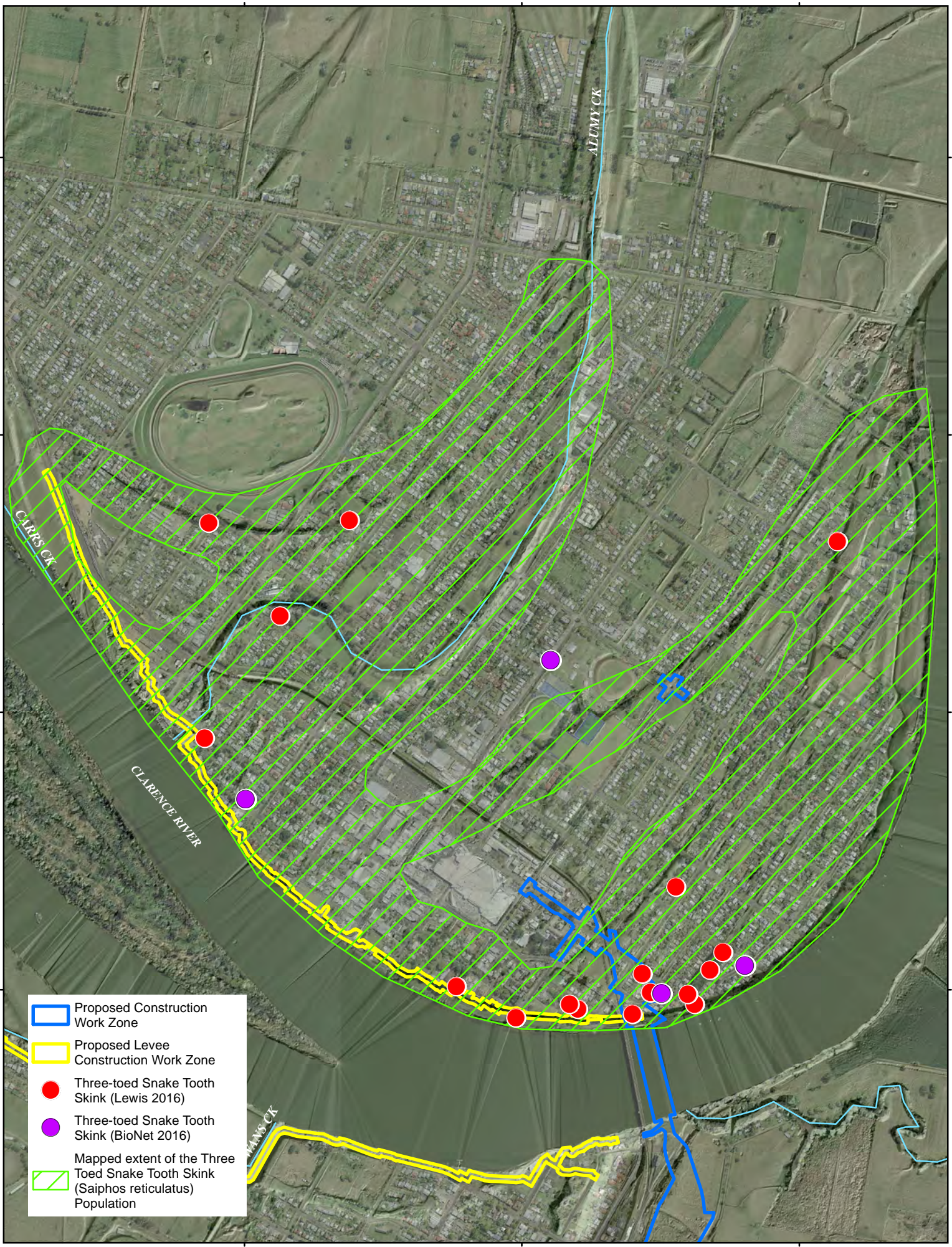
6717000






6716000

6716000

6715000

6715000



-  Proposed Construction Work Zone
-  Proposed Levee Construction Work Zone
-  Three-toed Snake Tooth Skink (Lewis 2016)
-  Three-toed Snake Tooth Skink (BioNet 2016)
-  Mapped extent of the Three Toed Snake Tooth Skink (*Saiphos reticulatus*) Population

493000

494000

495000

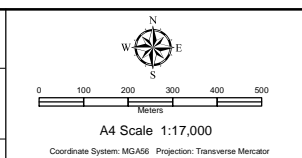


Source: Aerial Photo: RMS September 2010  
 Work Zones: RMS 2015  
 Surveyed Lots: Lewis Ecological 2016

Locations of Three-toed Snake Tooth Skink: Lewis Ecological 2016 & ATLAS BioNet database 2016

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File: 2751516-FIG3-1-TTSTS\_LDAR-160428



**Figure 3-1:**  
**LOCATIONS OF THREE-TOED SNAKE TOOTH SKINK (*SAIPHOS RETICULATUS*)**