

# Additional crossing of the Clarence River at Grafton

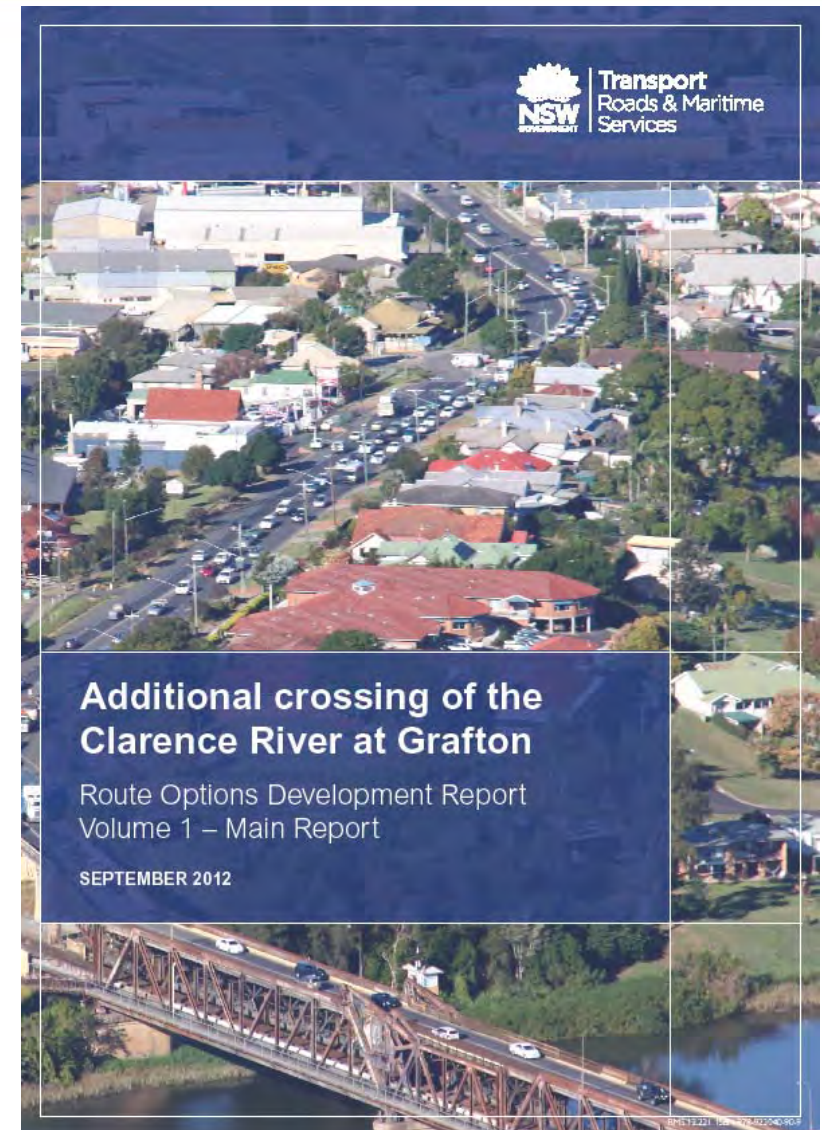


Transport  
Roads & Maritime  
Services

## Presentation to Community Forum

18 September 2012

Grafton Community Centre



# Agenda



Transport  
Roads & Maritime  
Services

6.00	Welcome and introductions	Denise Wilson (Facilitator)
6.05	Structure of Community Forums	Bob Higgins (RMS)
6.10	Project overview	Chris Clark (RMS)
6.15	Overview of investigations and shortlisted options	Chris Clark (RMS)
6.25	Traffic assessment	Gerard Cavanagh (ARUP)
6.40	Flooding assessment	Sharon Wallace (WBM)
6.45	Noise assessment	Kim Burgemeister (ARUP)
6.50	Other potential impacts	Kathryn Nation (ARUP)
7.00	Community stakeholders – initial perspectives	
7.15	Panel discussion and comments / questions from attendees	All
7.55	Summary and what happens next	Bob Higgins (RMS)
8.00	Close	

- **Project purpose** - To identify an additional crossing of the Clarence River at Grafton to address short-term and long-term transport needs.
- **Project objectives:**
  - Enhance road safety for all road users over the length of the project
  - Improve traffic efficiency between and within Grafton and South Grafton
  - Support regional and local economic development
  - Involve all stakeholders and consider their interests
  - Provide value for money
  - Minimise impact on the environment

- Planning for the additional crossing provides for semi-trailers and B-doubles to use the new crossing in preference to the existing bridge.
  - It is not the intention of the new crossing to provide an additional freight corridor or to attract more heavy vehicles onto the Summerland Way.
  - The Pacific Highway will continue to be the priority designated freight route for heavy vehicles travelling between Sydney and Brisbane.
-

# Short-listed options



Transport  
Roads & Maritime  
Services

## Short-listed options

**E** Cowan Street South Grafton to Villiers Street, Grafton.

**A** New bridge parallel to and immediately upstream of the existing bridge connecting Bent Street, South Grafton and Fitzroy Street, Grafton.

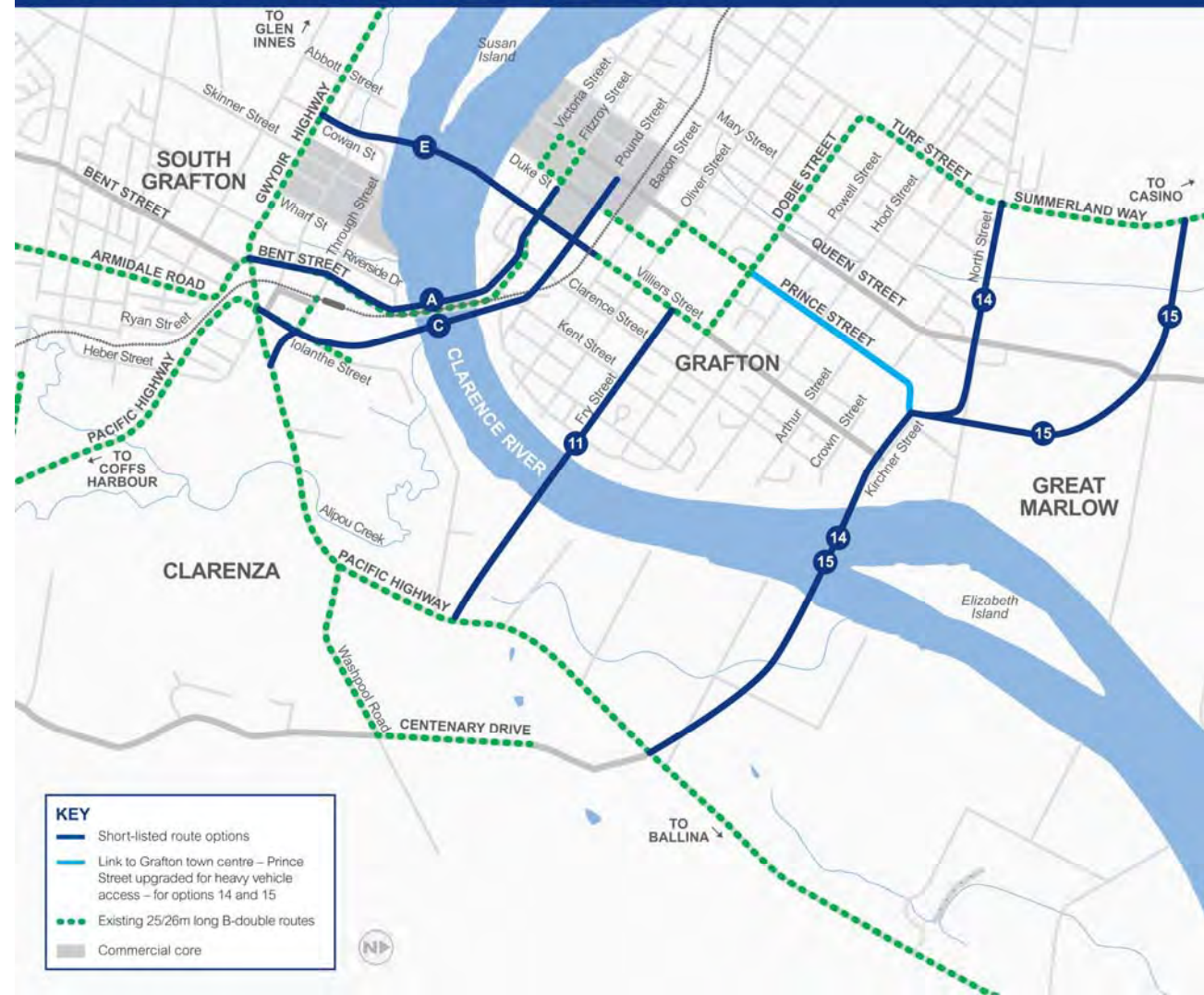
**C** Junction of Pacific Highway and Gwydir Highway, South Grafton to Pound Street, Grafton.

**11** Existing Pacific Highway north of South Grafton to Fry Street, Grafton.

**14** Existing Pacific Highway north of South Grafton to North Street Grafton via Kirchner Street.

**15** Existing Pacific Highway north of South Grafton to Summerland Way north of Grafton, via Kirchner Street.

Six route options over the Clarence River, Grafton



## **Refinement of concept designs for short-listed options:**

- Horizontal and vertical alignments
- Intersection upgrades
- Indicative road boundaries

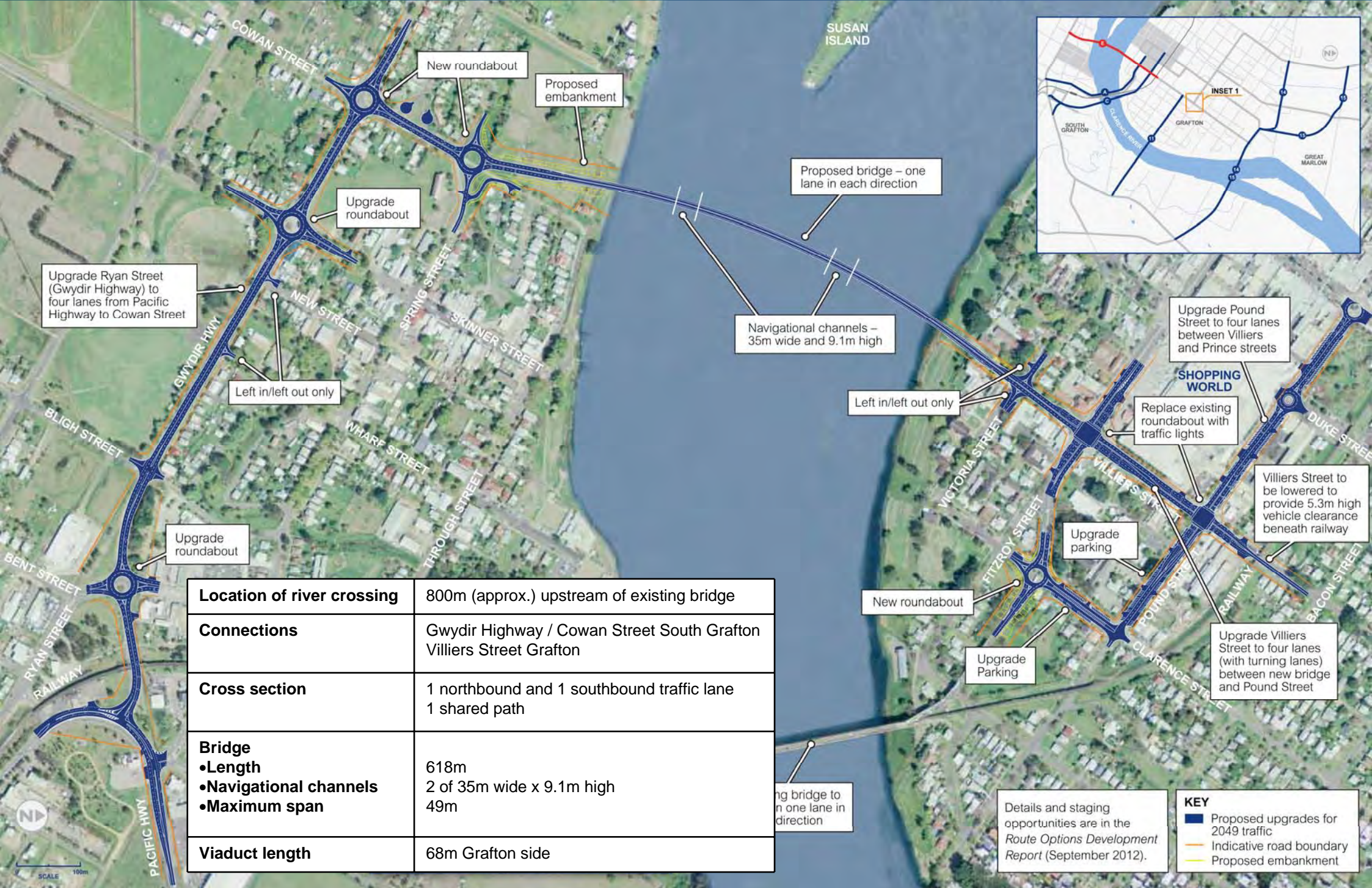
## **Investigations into:**

- Traffic
- Flooding
- Noise and amenity
- Geotechnical
- Landscape and urban character
- Social and economic
- Heritage – Aboriginal and non-Aboriginal
- Flora and fauna
- Cost estimates and value for money

## Key features:

- Assumed date of opening to traffic – 2019
- Upgrade of the Pacific Highway between Glenugie and Tyndale (which bypasses South Grafton) assumed to be open to traffic before the new bridge is open to traffic (ie by 2019)
- Options designed to cater for predicted traffic 30 years after assumed date of opening (ie 2049)
- Construction of preferred option likely to be staged. Indicative Stage 1 construction included in report

# OPTION E



<b>Location of river crossing</b>	800m (approx.) upstream of existing bridge
<b>Connections</b>	Gwydir Highway / Cowan Street South Grafton Villiers Street Grafton
<b>Cross section</b>	1 northbound and 1 southbound traffic lane 1 shared path
<b>Bridge</b>	
•Length	618m
•Navigational channels	2 of 35m wide x 9.1m high
•Maximum span	49m
<b>Viaduct length</b>	68m Grafton side

Details and staging opportunities are in the *Route Options Development Report* (September 2012).

**KEY**

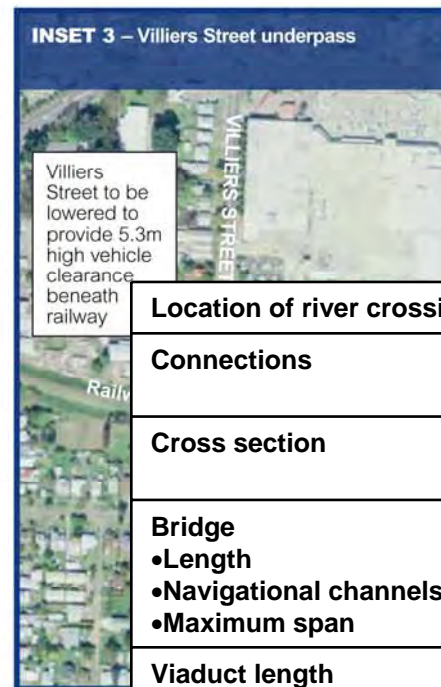
- Proposed upgrades for 2049 traffic
- Indicative road boundary
- Proposed embankment







# OPTION 11



<b>Location of river crossing</b>	1,100m (approx.) downstream of existing bridge
<b>Connections</b>	Pacific Highway South Grafton Fry Street / Villiers Street Grafton
<b>Cross section</b>	1 northbound and 1 southbound traffic lane 1 shared path
<b>Bridge</b>	
•Length	387m
•Navigational channels	2 of 35m wide x 17m high
•Maximum span	48.4m
<b>Viaduct length</b>	450m South Grafton side

# Option 14

<b>Location of river crossing</b>	2,700m (approx.) downstream of existing bridge
<b>Connections</b>	Pacific Highway / Centenary Drive South Grafton North Street / Turf Street Grafton
<b>Cross section</b>	1 northbound and 1 southbound traffic lane 1 shared path
<b>Bridge</b> •Length •Navigational channels •Maximum span	617m 2 of 35m wide x 17m high 53m
<b>Viaduct length</b>	782m South Grafton side, 136m Grafton side



**Transport**  
Roads & Maritime  
Services

## OPTION 14

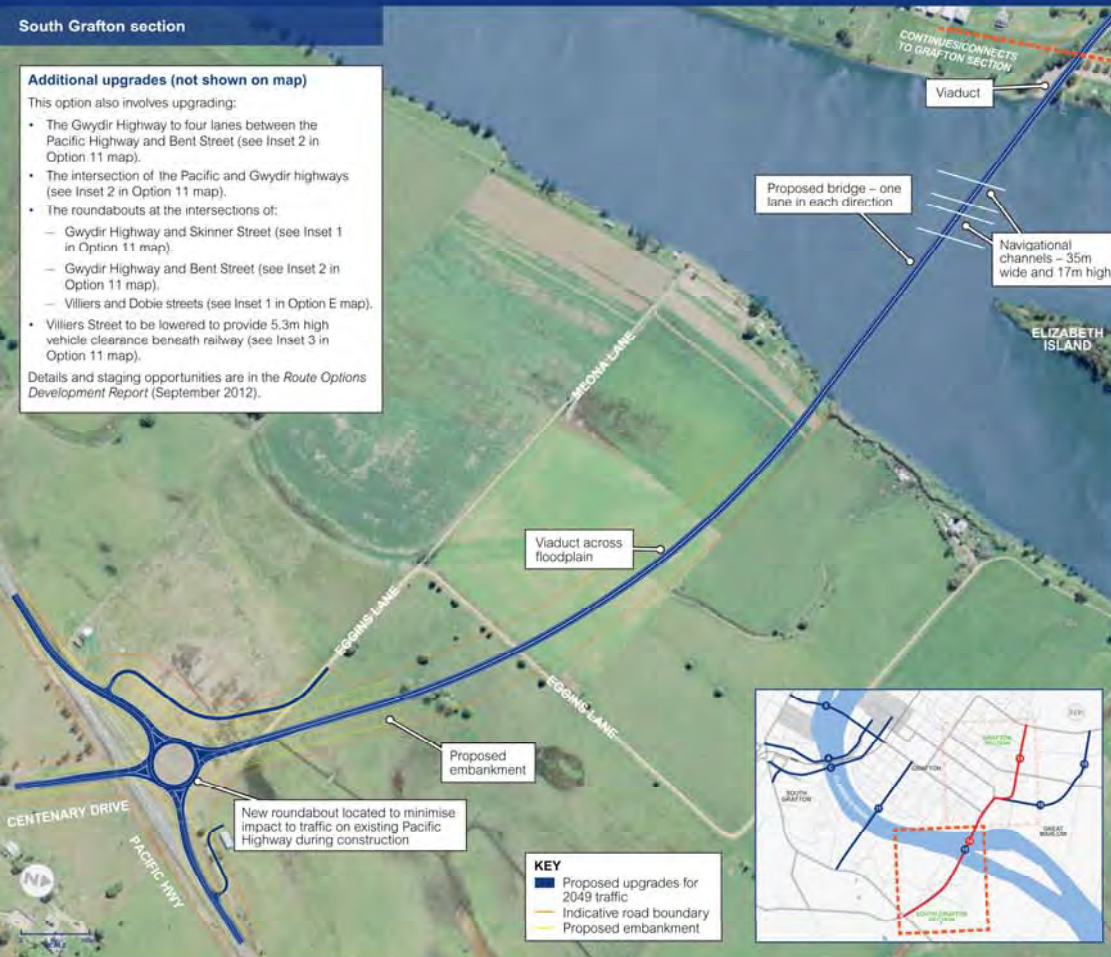
### South Grafton section

#### Additional upgrades (not shown on map)

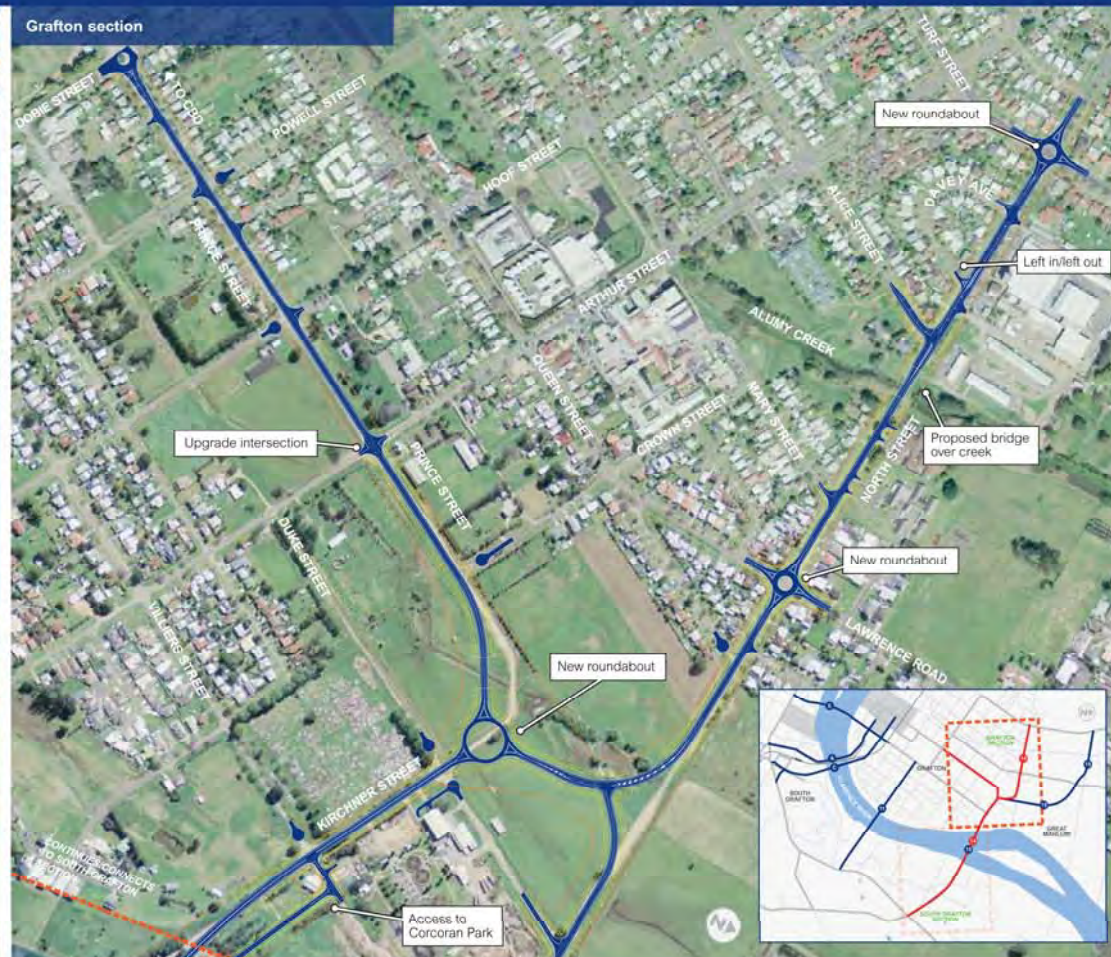
This option also involves upgrading:

- The Gwydir Highway to four lanes between the Pacific Highway and Bent Street (see Inset 2 in Option 11 map).
- The intersection of the Pacific and Gwydir highways (see Inset 2 in Option 11 map).
- The roundabouts at the intersections of:
  - Gwydir Highway and Skinner Street (see Inset 1 in Option 11 map).
  - Gwydir Highway and Bent Street (see Inset 2 in Option 11 map).
  - Villiers and Dobie streets (see Inset 1 in Option E map).
- Villiers Street to be lowered to provide 5.3m high vehicle clearance beneath railway (see Inset 3 in Option 11 map).

Details and staging opportunities are in the *Route Options Development Report* (September 2012).



### Grafton section



# Option 15

<b>Location of river crossing</b>	2,700m (approx.) downstream of existing bridge
<b>Connections</b>	Pacific Highway / Centenary Drive South Grafton Summerland Way Grafton
<b>Cross section</b>	1 northbound and 1 southbound traffic lane 1 shared path
<b>Bridge</b>	
•Length	617m
•Navigational channels	2 of 35m wide x 17m high
•Maximum span	53m
<b>Viaduct length</b>	782m South Grafton side, 136m Grafton side



**Transport**  
Roads & Maritime  
Services

## OPTION 15

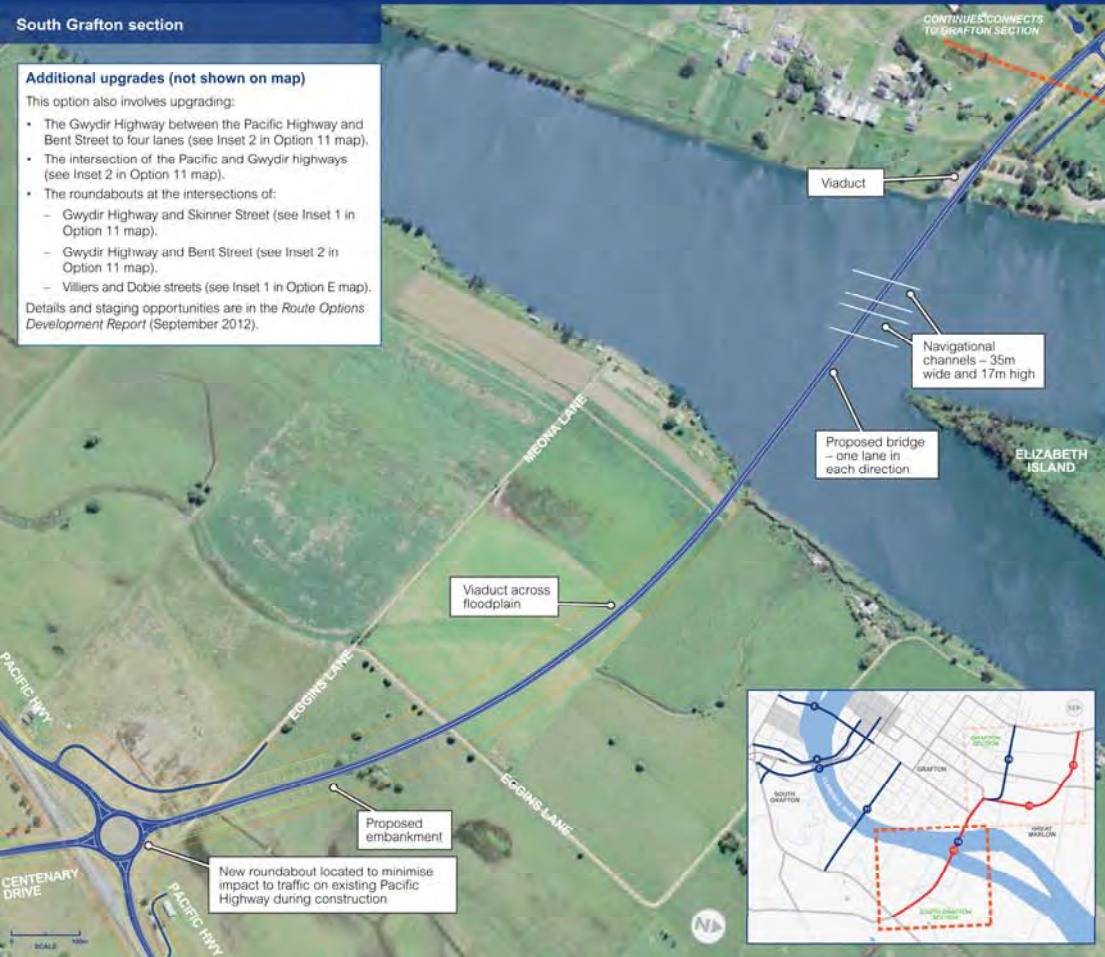
### South Grafton section

#### Additional upgrades (not shown on map)

This option also involves upgrading:

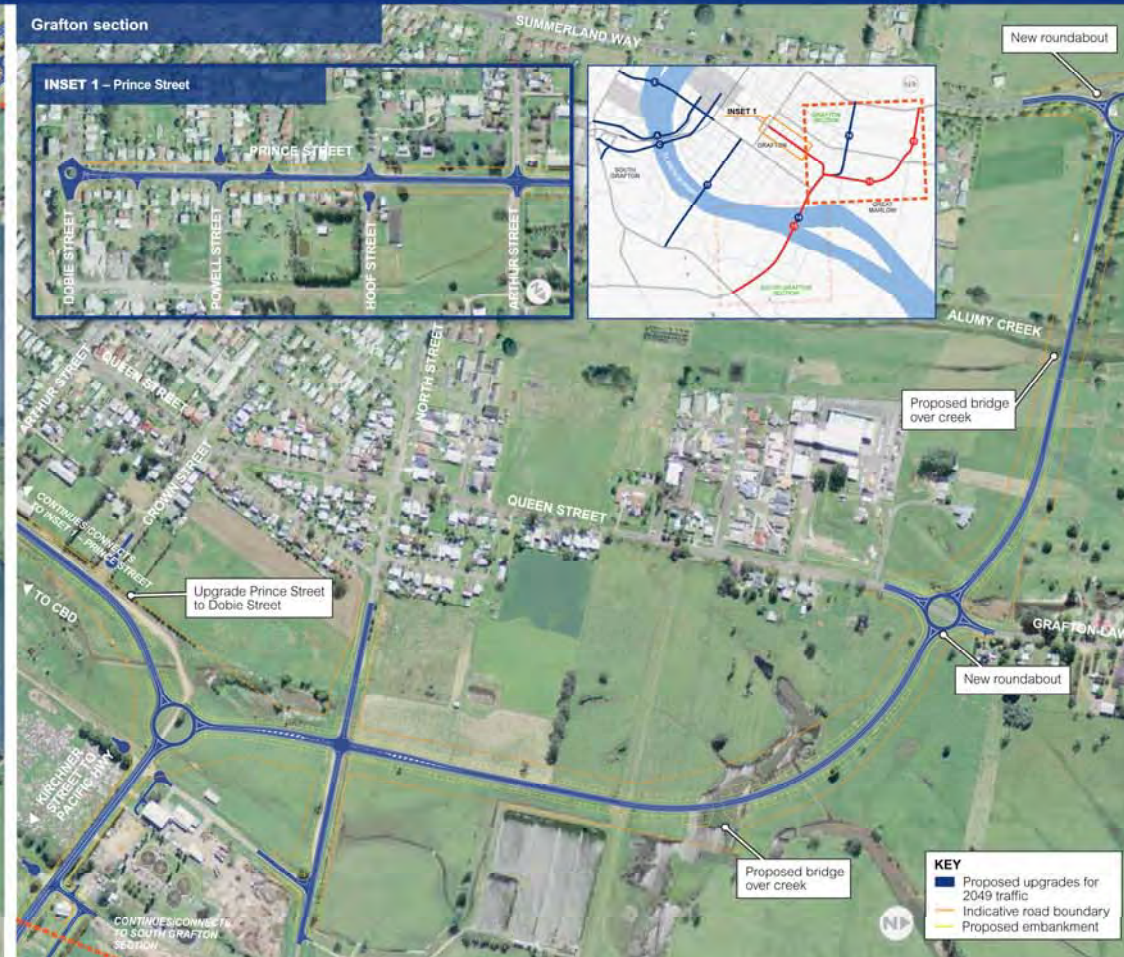
- The Gwydir Highway between the Pacific Highway and Bent Street to four lanes (see Inset 2 in Option 11 map).
- The intersection of the Pacific and Gwydir highways (see Inset 2 in Option 11 map).
- The roundabouts at the intersections of:
  - Gwydir Highway and Skinner Street (see Inset 1 in Option 11 map).
  - Gwydir Highway and Bent Street (see Inset 2 in Option 11 map).
  - Villiers and Dobie streets (see Inset 1 in Option E map).

Details and staging opportunities are in the *Route Options Development Report* (September 2012).



### Grafton section

#### INSET 1 - Prince Street



# Cost and economic assessment



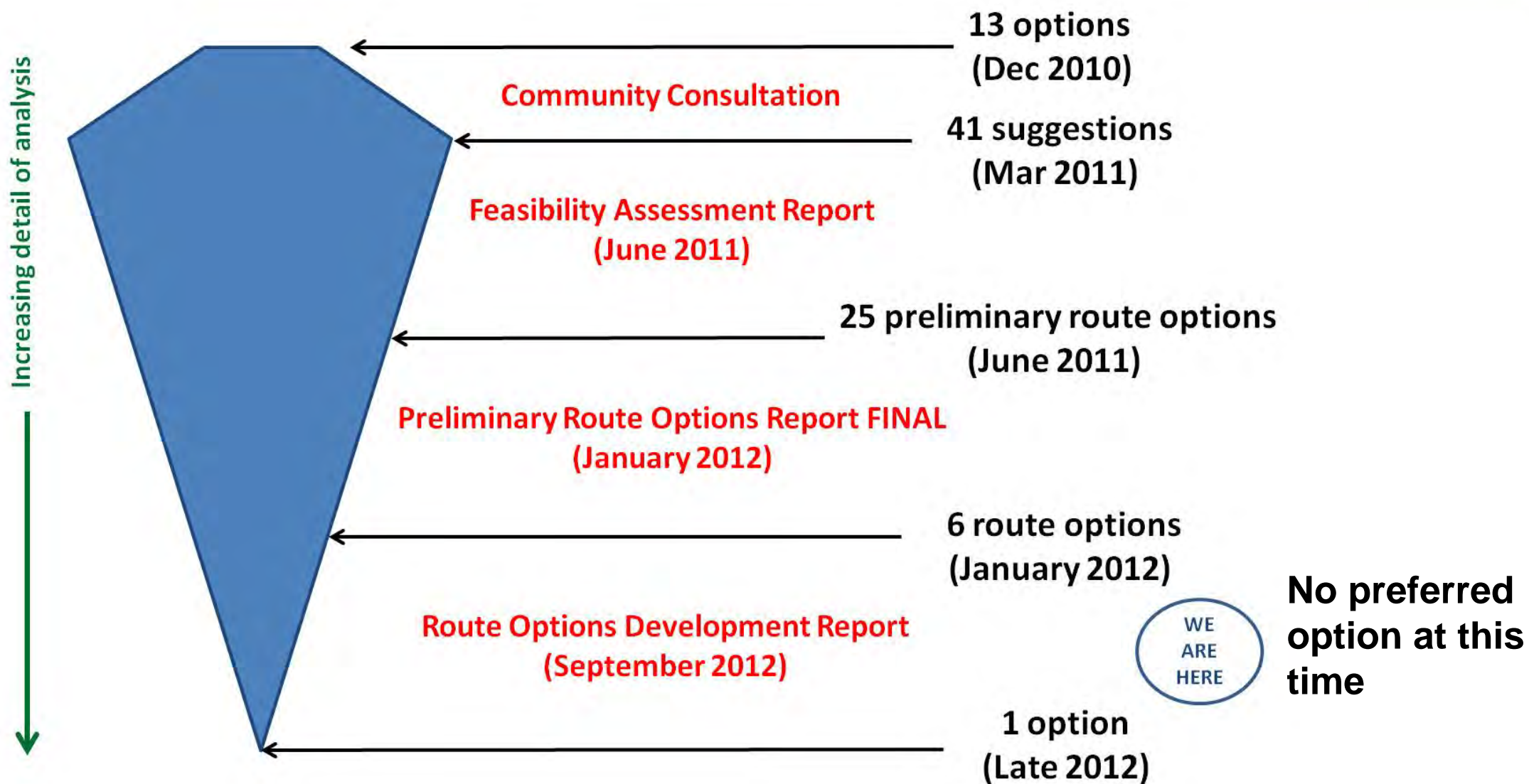
Transport  
Roads & Maritime  
Services

<b>OPTION</b>	<b>E</b>	<b>A</b>	<b>C</b>	<b>11</b>	<b>14</b>	<b>15</b>
<b>Strategic Estimate (\$M) (\$2012)</b>	215	231	231	210	304	340
<b>Benefit Cost Ratio (BCR)</b>	1.6	1.3	1.6	1.7	1.0	0.9



Transport  
Roads & Maritime  
Services







# What happens next?

## Revised closing date for submissions: Friday 12 October

Inputs into decision on a recommended preferred option:

- Investigations carried out.
- Community feedback.
- Outcomes of Value management Workshop.

Community feedback on recommended preferred option will be invited.

This feedback will be considered before a final decision is made on the preferred option.

JAN  
2012

Announce short-list of route options

