

# Appendix 7

## Widened Existing Carriageway

- Scope
- Estimate
- Program
- RMS Drawings

## Widened Existing Carriageway

### Scope

The widened existing carriageway through town option is to provide a new four-lane carriageway generally in the same position as the existing highway in the town centre.

- The southern limit is assumed to be just north of the intersection of Johnson Road and the Pacific Highway. The intersection is to remain in the current configuration and operate for the Pacific Highway all current turning movements retained i.e. no intersection improvements.
- A one-way service road between Johnson Road and the Wyong River together with an upgrade to South Tacoma Road up to a position just under the existing Rail Bridge. A new intersection with South Tacoma Road and McPherson Road.
- New Bridge over the Wyong River for northbound traffic.
- Refurbish the existing road bridge over the Wyong River consistent with the expected life of the upgraded highway, 20 years.
- Upgrade River Road intersection with local street adjustments.
- New dual carriageway Pacific Highway from Johnson Road to 100m south of Cutler Drive, upgraded intersections at Church Street, Anzac Avenue, North Road.
- New traffic signals at Church Street, Rose Street, Anzac Avenue and North Road intersections.
- New left in, left out intersections at South Tacoma Road, River Road, Alison Road .
- Bridge extension over the new bus-way at Rose Street.
- Retaining walls as required.
- Shared path cycle-ways from Johnson Road (south) to Cutler Drive (north).
- All highway pavements to be new heavy duty bound base with deep asphalt overlay.
- Urban standard throughout entire length of works, i.e. to include street lighting, kerb and gutter drainage, shared pedestrian cycle-way path, property access, landscaping and parking.
- Removal of the Station Masters Cottage and Warner Shops complex.
- The northern limit is 100m south of Cutler Drive.

Client: Roads & Maritime Services  
 Project: Through Town & Bypass Options - Pacific Highway Wyong  
 Option: Widen Existing Carriageway  
 Detail: Project Summary



No	Item	Estimate (Exc Contingency)	Contingency		Estimate (Inc Contingency)	% of Total Estimate
			%	Amount		
<b>1</b>	<b>Project Development</b>					
1.1	Route / Concept / EIS	\$2,540,000	40%	\$1,016,000	\$3,556,000	
1.2	Project Management Services	\$541,800	30%	\$162,540	\$704,340	
1.3	Client Representation	\$49,536	10%	\$4,954	\$54,490	
	<b>Sub total</b>	<b>\$3,131,336</b>	<b>38%</b>	<b>\$1,183,494</b>	<b>\$4,314,830</b>	<b>3.1%</b>
<b>2</b>	<b>Investigation and Design</b>					
2.1	Investigation and Design	\$4,187,500	50%	\$2,093,750	\$6,281,250	
2.2	Project Management Services	\$581,245	30%	\$174,374	\$755,619	
2.3	Client Representation	\$24,941	10%	\$2,494	\$27,435	
	<b>Sub total</b>	<b>\$4,793,686</b>	<b>47%</b>	<b>\$2,270,618</b>	<b>\$7,064,303</b>	<b>5.1%</b>
<b>3</b>	<b>Property Acquisitions</b>					
3.1	Property Acquisitions	\$7,542,500	55%	\$4,148,375	\$11,690,875	
3.2	Professional Services for Property	\$113,138	30%	\$33,941	\$147,079	
3.3	Project Management Services	\$153,400	30%	\$46,020	\$199,420	
3.4	Client Representation	\$36,920	10%	\$3,692	\$40,612	
	<b>Sub total</b>	<b>\$7,845,958</b>	<b>54%</b>	<b>\$4,232,028</b>	<b>\$12,077,986</b>	<b>8.7%</b>
<b>4</b>	<b>Public Utility Adjustments</b>					
4.1	Public Utility Adjustments	\$11,500,000	100%	\$11,500,000	\$23,000,000	
4.2	Project Management Services	\$442,000	30%	\$132,600	\$574,600	
4.3	Client Representation	\$33,280	10%	\$3,328	\$36,608	
	<b>Sub total</b>	<b>\$11,975,280</b>	<b>97%</b>	<b>\$11,635,928</b>	<b>\$23,611,208</b>	<b>17.1%</b>
<b>5</b>	<b>Construction of Works</b>					
5.1	Infrastructure	\$68,000,000	22%	\$14,960,000	\$82,960,000	
5.2	Project Management Services	\$5,506,750	30%	\$1,652,025	\$7,158,775	
5.3	Client Representation	\$177,600	10%	\$17,760	\$195,360	
	<b>Sub total</b>	<b>\$73,684,350</b>	<b>23%</b>	<b>\$16,629,785</b>	<b>\$90,314,135</b>	<b>65.4%</b>
<b>6</b>	<b>Handover</b>					
6.1	Handover	\$360,000	50%	\$180,000	\$540,000	
6.2	Project Management Services	\$92,300	30%	\$27,690	\$119,990	
6.3	Client Representation	\$9,230	10%	\$923	\$10,153	
	<b>Sub total</b>	<b>\$461,530</b>	<b>45%</b>	<b>\$208,613</b>	<b>\$670,143</b>	<b>0.5%</b>
	<b>TOTAL</b>	<b>\$101,892,139</b>	<b>35%</b>	<b>\$36,160,465</b>	<b>\$138,052,605</b>	<b>100%</b>

No	Item	Estimate (Exc Contingency)	Estimate (Contingency)	Estimate Total
<b>Total Project Management Allowances</b>				
i	Project Management	\$7,317,495	\$2,195,249	\$9,512,744
ii	Client Presentation	\$331,507	\$33,151	\$364,657
<b>Reality Checks</b>				
		<b>Cost / km (\$m)</b>	<b>Length of Road (km)</b>	
iii	Project Cost per kilometer	\$67.02	2.06	
iv	Project Cost per lane kilometer	\$16.75	8.24	

Client: Roads & Maritime Services  
 Project: Through Town & Bypass Options - Pacific Highway Wyong  
 Option: Widen Existing Carriageway  
 Detail: Project Development



ITEM	DESCRIPTION	UNIT	RATE	TOTAL	COMMENTS
<b>1.1</b>	<b><u>Route / Concept / EIS</u></b>				<b>Estimated Duration - 12 months</b>
<b>1.1.1</b>	<b>Concept Design</b>				
	Integrated Design Consultant - Concept Road, Bridge, Drainage, Pavement, Lighting, Landscape etc	Item	\$ 700,000	\$ 700,000	
<b>1.1.2</b>	<b>Preliminary Geotech</b>				
	Investigation and reporting, test pits, boreholes, ground model, soil testing etc	item	\$ 300,000	\$ 300,000	
	Ground support model	item	\$ 20,000	\$ 20,000	
<b>1.1.3</b>	<b>Traffic Modelling</b>				
	Traffic model for concept design solutions	item	\$ 75,000	\$ 75,000	
<b>1.1.4</b>	<b>Community Liaison</b>				
	Included within project management services	item	\$ -	\$ -	
<b>1.1.5</b>	<b>Environmental Investigations EIS</b>				
	EIS REF	item	\$ 1,000,000	\$ 1,000,000	
	Water quality testing	item	\$ 10,000	\$ 10,000	
<b>1.1.6</b>	<b>Survey</b>				
	Ground survey model	item	\$ 200,000	\$ 200,000	
<b>1.1.7</b>	<b>Specialist Sub Consultants</b>				
	Urban Design	item	\$ 60,000	\$ 60,000	
	Noise	item	\$ 100,000	\$ 100,000	
	Hydrology	item	\$ 25,000	\$ 25,000	
	Archaeology	item	\$ 50,000	\$ 50,000	
	<b>Total Item 1.1</b>			<b>\$ 2,540,000</b>	

**Notes / Assumptions**

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>1.2</b>	<b><u>Project Management Services</u></b>					<b>Estimated Duration - 12 months</b>
	Project manager	100%	77	\$ 5,100	\$ 394,740	
	Clerical assistant	20%	77	\$ 2,000	\$ 30,960	
	Assisting Engineer	50%	77	\$ 3,000	\$ 116,100	
	<b>Total Item 1.2</b>				<b>\$ 541,800</b>	

**Notes / Assumptions**

All rates are weekly

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>1.3</b>	<b><u>Client Representation</u></b>					<b>Estimated Duration - 12 months</b>
	Project manager	10%	77	\$ 5,100	\$ 39,474	
	Clerical assistant	5%	77	\$ 2,000	\$ 7,740	
	Assisting Engineer	1%	77	\$ 3,000	\$ 2,322	
	<b>Total Item 1.3</b>				<b>\$ 49,536</b>	

**Notes / Assumptions**

All Rates are weekly

<b>TOTAL ITEM</b>	<b>\$ 3,131,336</b>
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Client: Roads & Maritime Services  
 Project: Through Town & Bypass Options - Pacific Highway Wyong  
 Option: Widen Existing Carriageway  
 Detail: Investigation and Design



ITEM	DESCRIPTION	UNIT	RATE	TOTAL	COMMENTS
<b>2.1</b>	<b>Investigation and Design</b>				Estimated Duration - 9 months
<b>2.1.1</b>	<b>Investigation &amp; Design</b>				
	Integrated Design Consultant - Road, Bridge, Staging, Drainage, Pavement, Lighting, Landscape, Line Marking, Signage, Traffic Signals, Property Adjustments, Services / Utilities, Roadside Furniture, ITS etc	item	\$ 3,375,000	\$ 3,375,000	
<b>2.1.2</b>	<b>Detailed Geotechnical Design</b>				
	Investigation and reporting, test pits, boreholes, ground model, soil testing etc	item	\$ 225,000	\$ 225,000	
<b>2.1.3</b>	<b>Survey</b>				
	Ground survey model	item	\$ 187,500	\$ 187,500	
<b>2.1.4</b>	<b>Independent Design Verification</b>				
	Independent Design Review	item	\$ -	\$ -	
<b>2.1.5</b>	<b>Specialist Consultants</b>				
	Urban Design	item	\$ 100,000	\$ 100,000	
	Noise	item	\$ 100,000	\$ 100,000	
	Hydrology	item	\$ 100,000	\$ 100,000	
	Miscellaneous Consultants: Allowance	item	\$ 100,000	\$ 100,000	Commerical advice, communit consultation, community advice etc
	<b>Total Item 2.1</b>			<b>\$ 4,187,500</b>	

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>2.2</b>	<b>Project Management Services</b>					Estimated Duration - 9 months
	Project manager	100%	39	\$ 5,100	\$ 198,747	
	Clercial assistant	20%	39	\$ 2,000	\$ 15,588	
	Assisting Engineer	100%	39	\$ 3,000	\$ 116,910	
	Tender Documentation	item	1	\$ 250,000	\$ 250,000.00	
	<b>Total Item 2.2</b>				<b>\$ 581,245</b>	

**Notes / Assumptions**

All rates are weekly

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>2.3</b>	<b>Client Representation</b>					Estimated Duration - 9 months
	Project manager	10%	39	\$ 5,100	\$ 19,874.70	
	Clercial assistant	5%	39	\$ 2,000	\$ 3,897	
	Assisting Engineer	1%	39	\$ 3,000	\$ 1,169.10	
	<b>Total Item 2.3</b>				<b>\$ 24,941</b>	

**Notes / Assumptions**

All rates are weekly

<b>TOTAL ITEM</b>	<b>\$ 4,793,686</b>					
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Client: Roads & Maritime Services  
 Project: Through Town & Bypass Options - Pacific Highway Wyong  
 Option: Widen Existing Carriageway  
 Detail: Property Acquisitions



ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL	COMMENTS
<b>3.1</b>	<b>Property Acquisitions</b>					<b>Estimated Duration - 2 years</b>
	Commerical Property	sq.m	1,850	\$ 2,800	\$ 5,180,000	Refer to property acquisition quantification
	Railcorp Land	sq.m	6,300	\$ 375	\$ 2,362,500	
	Council Land	sq.m	20,100	\$ -	\$ -	
	<b>Total Item 3.1</b>				<b>\$ 7,542,500</b>	

Notes / Assumptions

ITEM	DESCRIPTION	TOTAL VALUE OF PROPERTY	% FEE	Total	COMMENTS
<b>3.2</b>	<b>Professional Services for Property</b>				<b>Estimated Duration - 2 years</b>
	Property Consultant & Valuation Expert	\$ 7,542,500	1.00%	\$ 75,425	
	Legal Advice	\$ 7,542,500	0.50%	\$ 37,713	
	<b>Total Item 3.2</b>			<b>\$ 113,138</b>	

Notes / Assumptions

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>3.3</b>	<b>Project Management Services</b>					<b>Estimated Duration - 2 years</b>
	Project manager	25%	104	\$ 5,100	\$ 132,600	
	Clercial assistant	10%	104	\$ 2,000	\$ 20,800	
	<b>Total Item 3.3</b>				<b>\$ 153,400</b>	

Notes / Assumptions

All rates are weekly

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>3.4</b>	<b>Client Representation</b>					<b>Estimated Duration - 2 years</b>
	Project manager	5%	104	\$ 5,100	\$ 26,520	
	Clercial assistant	5%	104	\$ 2,000	\$ 10,400	
	<b>Total Item 3.4</b>				<b>\$ 36,920</b>	

Notes / Assumptions

All rates are weekly

<b>TOTAL ITEM</b>					<b>\$ 7,845,958</b>	
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**Client:** Roads & Maritime Services  
**Project:** Through Town & Bypass Options - Pacific Highway Wyong  
**Option:** Widen Existing Carriageway  
**Detail:** Public Utility Adjustments



ITEM	DESCRIPTION	UNIT	TOTAL	COMMENTS
<b>4.1</b>	<b>Adjust Utilities</b>			<b>Estimated Duration - 12 months</b>
	<b>Water Utilities</b>			
	Relocation of services - Water	item	\$ 1,750,000	Refer to public utility quantification spreadsheet
	Relocation of services - Sewer	item	\$ 1,250,000	Refer to public utility quantification spreadsheet
	<b>Telecommunications</b>			
	Relocation of services	item	\$ 1,500,000	Refer to public utility quantification spreadsheet
	<b>Power / Electrical Utilities HV &amp; LV</b>			
	Relocation of services	item	\$ 5,000,000	Refer to public utility quantification spreadsheet
	<b>Gas Utilities HP &amp; LP</b>			
	Relocation of services	item	\$ 2,000,000	Refer to public utility quantification spreadsheet
	<b>Total Item 4.1</b>		<b>\$ 11,500,000</b>	

**Notes**

Please see spreadsheet 'Services' for further breakdown

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>4.2</b>	<b>Project Management Services</b>					<b>Estimated Duration - 12 months</b>
	Project manager	100%	52	\$ 5,100	\$ 265,200	
	Assisting Engineer	100%	52	\$ 3,000	\$ 156,000	
	Clerical assistant	20%	52	\$ 2,000	\$ 20,800	
	<b>Total Item 4.2</b>				<b>\$ 442,000</b>	

**Notes / Assumptions**

rates are weekly

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>4.3</b>	<b>Client Representation</b>					<b>Estimated Duration - 12 months</b>
	Project manager	10%	52	\$ 5,100	\$ 26,520	
	Clerical assistant	5%	52	\$ 2,000	\$ 5,200	
	Assisting Engineer	1%	52	\$ 3,000	\$ 1,560	
	<b>Total Item 4.3</b>				<b>\$ 33,280</b>	

**Notes / Assumptions**

All rates are weekly

<b>TOTAL ITEM</b>	<b>\$ 11,975,280</b>				
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Client: Roads & Maritime Services  
 Project: Through Town & Bypass Options - Pacific Highway Wyong  
 Option: Widen Existing Carriageway  
 Detail: Construction of Works



ITEM	DESCRIPTION	TOTAL	COMMENTS
<b>5.1</b>	<b>Infrastructure</b>		Estimated Duration - 3 years
	Direct Works Costs	\$ 45,300,000	
	Overhead Costs	\$ 13,900,000	
	Contractors Margin	\$ 8,800,000	
	<b>Total Item 5.1</b>	<b>\$ 68,000,000</b>	

ITEM	DESCRIPTION	UNIT	RATE	TOTAL	COMMENTS
<b>5.2 (a)</b>	<b>Project Management Services - Support Services</b>				Estimated Duration - 3 years
	Design Support	item	\$ 168,750	\$ 168,750	
	Urban Design	item	\$ 100,000	\$ 100,000	
	Geotechnical Design Support Services	item	\$ 50,000	\$ 50,000	
	Quality & Safety Audit Services	item	\$ 25,000	\$ 25,000	
	Community Consultation	item	\$ 150,000	\$ 150,000	
	Traffic Management Support	item	\$ 25,000	\$ 25,000	
	Legal Services	item	\$ 200,000	\$ 200,000	
	Reports, Conditions of Approval etc	item	\$ 50,000	\$ 50,000	
	Community Liaison Representative	item	\$ 50,000	\$ 50,000	
	Survey	item	\$ 20,000	\$ 20,000	
	Commercial Advisor	item	\$ 100,000	\$ 100,000	
	Insurance - PA	Item	\$ 680,000.00	\$ 680,000	
	<b>Total Item 5.2 (a)</b>			<b>\$ 1,618,750</b>	

ITEM	DESCRIPTION		NO	WEEKS	RATE	TOTAL	COMMENTS
<b>5.2 (b)</b>	<b>Project Management Services - Staff</b>						Estimated Duration - 3 years
	<b>PM Staff: Management</b>						
	Project Manager	100%	1	160	\$ 5,100	\$ 816,000	
	Project Engineers	100%	2	160	\$ 3,750	\$ 1,200,000	
	Surveillance Officers	100%	2	160	\$ 3,600	\$ 1,152,000	
	Health & Safety Advisor	50%	1	160	\$ 3,000	\$ 240,000	
	Quality Advisor	50%	1	160	\$ 3,000	\$ 240,000	
	Environmental Advisor	50%	1	160	\$ 3,000	\$ 240,000	
	<b>Total Item 5.2 (b)</b>					<b>\$ 3,888,000</b>	
	<b>Total Item 5.2 (a) &amp; (b)</b>					<b>\$ 5,506,750</b>	

Notes / Assumptions  
 All rates are weekly

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>5.3</b>	<b>Client Representation</b>					Estimated Duration - 3 years
	Senior Management Review	10%	160	\$ 4,000	\$ 64,000	
	Client Manager	10%	160	\$ 5,100	\$ 81,600	
	Clerical assistant	10%	160	\$ 2,000	\$ 32,000	
	<b>Total Item 5.3</b>				<b>\$ 177,600</b>	

Notes / Assumptions  
 All rates are weekly

<b>TOTAL ITEM</b>	<b>\$ 73,684,350</b>
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Client: Roads & Maritime Services  
 Project: Through Town & Bypass Options - Pacific Highway Wyong  
 Option: Widen Existing Carriageway  
 Detail: Handover



ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL	COMMENTS
<b>6.1</b>	<b>Handover</b>					<b>Estimated Duration - 6 Months</b>
	Final Reporting	item	1	\$ 100,000	\$ 100,000	
	Legal	item	1	\$ 100,000	\$ 100,000	
	Claims Response	item	1	\$ 100,000	\$ 100,000	
	Noise Survey	item	1	\$ 20,000	\$ 20,000	
	Traffic Verification	item	1	\$ 20,000	\$ 20,000	
	Environmental Monitors	item	1	\$ 20,000	\$ 20,000	
	<b>Total Item 6.1</b>				<b>\$ 360,000</b>	

**Notes / Assumptions**

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>6.2</b>	<b>Project Management Services</b>					<b>Estimated Duration - 6 months</b>
	Project manager	50%	26	\$ 5,100	\$ 66,300	
	Clerical assistant	50%	26	\$ 2,000	\$ 26,000	
	<b>Total Item 6.2</b>				<b>\$ 92,300</b>	

**Notes / Assumptions**

All rates are weekly

ITEM	DESCRIPTION	UTILISATION	WEEKS	RATE	TOTAL	COMMENTS
<b>6.3</b>	<b>Client Representation</b>					<b>Estimated Duration - 6 months</b>
	Project manager	5%	26	\$ 5,100	\$ 6,630	
	Clerical assistant	5%	26	\$ 2,000	\$ 2,600	
	<b>Total Item 6.3</b>				<b>\$ 9,230</b>	

**Notes / Assumptions**

All rates are weekly

<b>TOTAL ITEM</b>						<b>\$ 461,530</b>
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Client: Roads & Maritime Services  
 Project: Through Town & Bypass Options - Pacific Highway Wyong  
 Option: Widen Existing Carriageway  
 Detail: Property Acquisitions Quantification



ITEM	DESCRIPTION	NO	FLOOR AREA	PROPERTY AREA	COMMENTS
<b>1</b>	<b><u>Property Acquisition</u></b>				
1.1	Commerical Property	1	180	800	Station Masters Cottage
		1	670	1050	Railway Sq shops (Corner of Church St)
	<b>Total</b>	<b>2</b>	<b>850</b>	<b>1850</b>	<b>Property Area brought forward to summary</b>

ITEM	DESCRIPTION	LAND AREA	LAND OWNER	COMMENTS
<b>2</b>	<b><u>Land Acquisition</u></b>			
2.1	Wyong River Bridge to Church St	6,300	Railcorp	Along Railway lane before station masters cottage
2.2	Church St to Rose St	3,250	Council	Section 1 within train station car park
		6,100	Council	Section 2 within train station car park
2.3	Rose St to Anzac St	3,700	Council	Rose St to Anzac St along railway line
2.4	Anzac St to North Road	2,600	Council	Along Railway lane
		650	Council	Anzac St intersection allowances
2.5	North Road to End	3,800	Council	Along railway track
	<b>Total</b>	<b>26,400</b>		
	<b>Council Owned Land</b>	<b>20,100</b>		
	<b>Rail Corp Owned Land</b>	<b>6,300</b>		

**Client:** Roads & Maritime Services  
**Project:** Through Town & Bypass Options - Pacific Highway Wyong  
**Option:** Widen Existing Carriageway  
**Detail:** Public Utility Adjustments Quantification

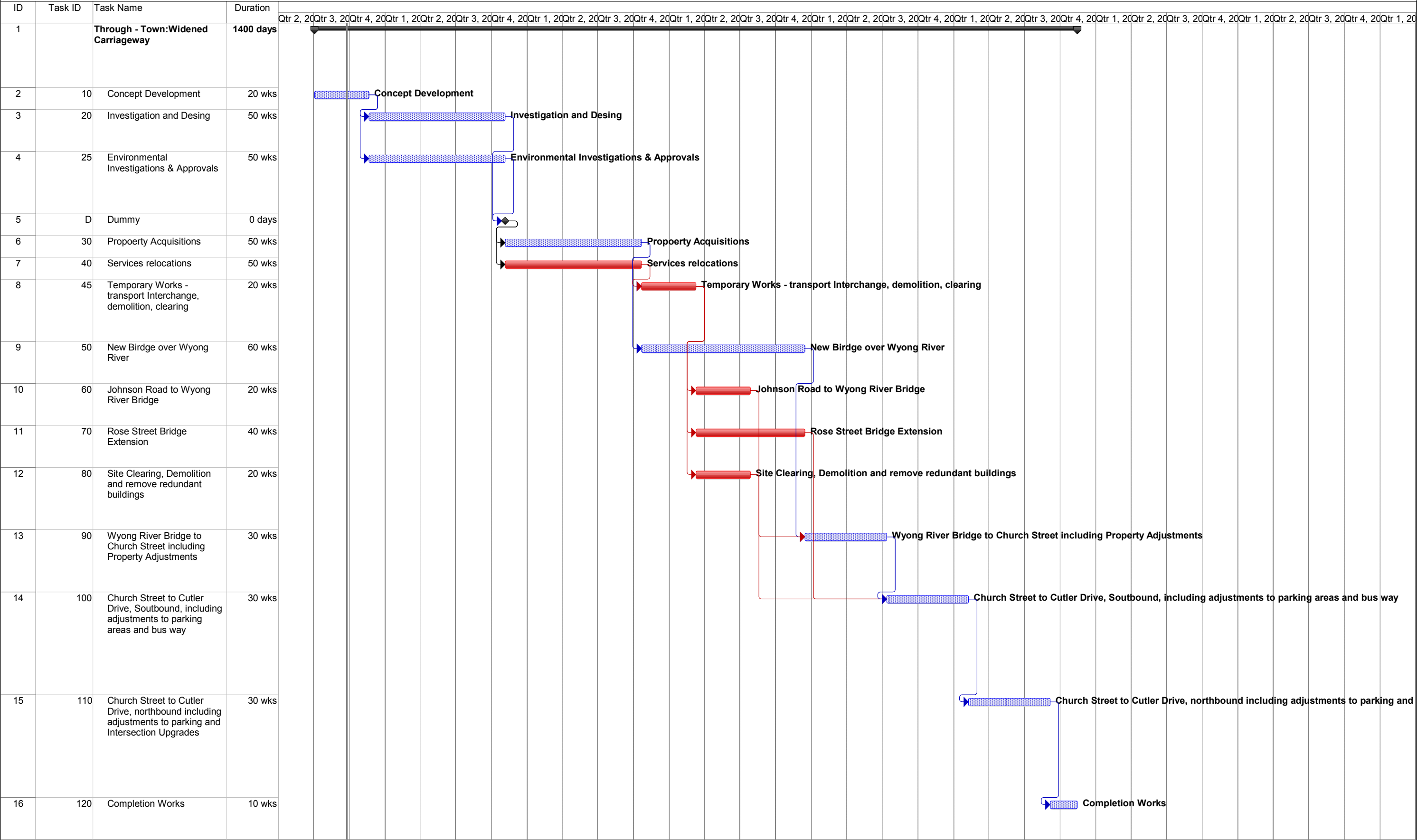


ITEM	DESCRIPTION	UNIT	TOTAL	CONTINGENCY %	CONTINGENCY TOTAL	TOTAL VALUE
1	<b>Power</b>					
	Miscellaneous Power Adjustments - lv	item	\$5,000,000	100%	\$5,000,000	\$10,000,000
	Power Adjustments - hv	item	\$0	100%	\$0	\$0
	<b>Notes:</b>					
	Local power supply includes 415kv & 33kv adjustments including temporary power supply					
	including transformers, pits, temporary power, temporary generators etc					
	New infrastructure work allowed for within direct works estimate					
2	<b>Sewer</b>					
	Assumed 2no rising main at 150mm each to be adjusted	item	\$1,250,000	100%	\$1,250,000	\$2,500,000
	Gravity pit adjustments have been allowed within the direct works					
3	<b>Water</b>					
	Protection & Relocation of Water Utilities	item	\$1,750,000	100%	\$1,750,000	\$3,500,000
4	<b>Telecommunications</b>					
	Local Adjustments	item	\$1,500,000	100%	\$1,500,000	\$3,000,000
5	<b>Gas</b>					
	Protection & Relocation of Gas Utilities	item	\$2,000,000	100%	\$2,000,000	\$4,000,000
	<b>Total Public Utility Adjustment</b>		<b>\$11,500,000</b>	<b>100%</b>	<b>\$11,500,000</b>	<b>\$23,000,000</b>

Line	Item	Description	Quantity	Unit	Labour	Material	Plant	Subcontract	Rate	Total
1										
2		WYONG BYPASS - Widened Existing Carrigeway - From Nth of Johnson Road to 100m South Of Cutler Drive.								
3		Estimate - July12 - T Rajeswaran								
4	ITEM									
5										
6	1	GENERAL								
7	1.1	Property Adjustments	10	each				\$ 100,000	\$ 10,000	\$ 100,000
8	1.2	Provision for temp bus interchange and pedestrial access	1	each	\$ 8,547	\$ 354,560	\$ 4,440		\$ 367,547	\$ 367,547
9	1.3	Dilapidation survey & report.	300	each				\$ 172,800	\$ 576	\$ 172,800
10										
11		EE formula - =sum(7:10) General			\$ 8,547	\$ 354,560	\$ 4,440	\$ 272,800		\$ 640,347
12										
13	2	TRAFFIC CONTROL								
14	2.1	Traffic Control	1	Item	\$ 132,144	\$ 48,548	\$ 583,482	\$ 1,159,469	\$ 1,923,642	\$ 1,923,642
15		EE formula - =sum(13:14) Traffic Control			\$ 132,144	\$ 48,548	\$ 583,482	\$ 1,159,469		\$ 1,923,642
16										
17	3	ENVIRONMENTAL								
18	3.1	Sedimentataion control	1	Item	\$ 54,036	\$ 16,278	\$ 31,251		\$ 101,565	\$ 101,565
19	3.2	Monitoring	1	item				\$ 93,659	\$ 93,659	\$ 93,659
20		EE formula - =sum(18:19) Environmental			\$ 54,036	\$ 16,278	\$ 31,251	\$ 93,659		\$ 195,224
21										
22		DEmolition								
23	4.1	Demolition - Johnson RD to Cutler Dr	1	Item	\$ 88,000	\$ 800	\$ 287,470	\$ 132,000	\$ 508,270	\$ 508,270
24	4.2	Station Masters building & Warner shops	1	item	\$ 58,000	\$ 3,000	\$ 136,419	\$ 31,800	\$ 229,219	\$ 229,219
25	4.2	Rail Corp maintenace yard	1	item	\$ 47,000	\$ 2,400	\$ 109,135	\$ 31,000	\$ 189,535	\$ 189,535
26		EE formula - =sum(23:25) Demolition			\$ 193,000	\$ 6,200	\$ 533,024	\$ 194,800		\$ 927,024
27										
28	5	Earthworks								
29		Earthworks - Johnson road to Cutler Dr.	1,940	Item	\$ 628,817	\$ 1,279,291	\$ 3,066,399	\$ 903,926	\$ 3,030	\$ 5,878,433
30	5.1	From Johnson Rd To Cutler Drive - Clear & grub, strip top soil, excavation, cut/fill, select, drainage blanket, unsuitable etc. Lgth is ch to chainage and excludes brdge deck.	1,940	item	\$ 628,817	\$ 1,279,291	\$ 3,066,399	\$ 903,926	\$ 3,030	\$ 5,878,433
31		EE formula - =sum(30) Earthworks			\$ 628,817	\$ 1,279,291	\$ 3,066,399	\$ 903,926		\$ 5,878,433
32										
33	6	DRAINAGE								
34	6.1	SWD including pipes, pits, open drain, GPT etc.	5,800	m	\$ 382,325	\$ 1,077,380	\$ 491,120	\$ 972,002	\$ 504	\$ 2,922,828
35	6.2	Kerb & Gutter - SA, SF & SO types	11,140	m	\$ 31,792	\$ 282,351	\$ 72,325	\$ 225,400	\$ 55	\$ 611,868
36		EE formula - =sum(33:35) Drainage			\$ 414,117	\$ 1,359,731	\$ 563,445	\$ 1,197,402		\$ 3,534,696
37										
38	7	PAVEMENTS								
39	7.1	Local Roads	1	m2						
40	7.2	Pavement - Johnson Rd to Cutler Dr	57,758	m2	\$ 355,044	\$ 1,509,217	\$ 845,456	\$ 4,150,759	\$ 119	\$ 6,860,475
41		EE formula - =sum(39:40) Pavements			\$ 355,044	\$ 1,509,217	\$ 845,456	\$ 4,150,759		\$ 6,860,475
42										
43	8	BRIDGES & STRUCTURES								
44		Structures								
45	8.1	Retaining Walls - Block infill & Concrete Retaining wall.	3,988	m2	\$ 768,158	\$ 1,765,054	\$ 368,592	\$ 1,710,057	\$ 1,156	\$ 4,611,861

Line	Item	Description	Quantity	Unit	Labour	Material	Plant	Subcontract	Rate	Total
1										
2		<b>WYONG BYPASS - Widened Existing Carrigeway - From Nth of Johnson Road to 100m South Of Cutler Drive.</b>								
3		Estimate - July12 - T Rajeswaran								
46										
47		Bridge Structures								
48		Bridge No 1 - Wyong River	1,440	item	\$ 72,475	\$ 186,414	\$ 80,678	\$ 7,266,201	\$ 5,282	\$ 7,605,768
49	8.1/a	Prepare bridge corridor including Earth embankment on approaches.	1		\$ 20,834	\$ 41,636	\$ 53,183	\$ 6,762	\$ 122,415	\$ 122,415
50	8.1/b	Bridge across Wyong river including pedestrian walkway.	1,440	m2	\$ 1,188	\$ 108,000	\$ 8,022	\$ 6,950,484	\$ 4,908	\$ 7,067,694
51	8.1/c	Reinforced Earth wall including parapets	320	m2	\$ 50,453	\$ 36,778	\$ 19,473	\$ 308,955	\$ 1,299	\$ 415,659
52										
53	8.3	Bridge 2 - Extend Rose street bridge over new underpass	360	m2	\$ 17,848	\$ 20,140	\$ 140,991	\$ 2,776,355	\$ 8,209	\$ 2,955,333
54		bridge	360	m2		\$ 11,000		\$ 2,495,678	\$ 6,963	\$ 2,506,678
55		Earthworks under bridge	4,800	m3	\$ 17,600	\$ 1,640	\$ 140,856	\$ 236,160	\$ 83	\$ 396,256
56		F Type barrier & crash cousion etc	30	m	\$ 248	\$ 7,500	\$ 135	\$ 44,518	\$ 1,747	\$ 52,400
57										
58	8.4	Refurbish existing brdge over Wyong River.	1,080	m2				\$ 1,944,000	\$ 1,800	\$ 1,944,000
59		<b>EE formula - =sum(45:58) Bridge &amp; structures</b>			<b>\$ 858,481</b>	<b>\$ 1,971,608</b>	<b>\$ 590,261</b>	<b>\$ 13,696,613</b>		<b>\$ 17,116,962</b>
60										
61		<b>9 MISCELLANEOUS</b>								
62	9.1a	Lighting - Johnson Rd To Cutler Dr	120	no				\$ 1,830,400	\$ 15,253	\$ 1,830,400
63	9.2	Traffic Lights - Church st, Roase st, Anzac Ave & Nth Rd	4	no				\$ 1,152,000	\$ 288,000	\$ 1,152,000
64	9.3	Signs	116	no				\$ 147,450	\$ 1,271	\$ 147,450
65	9.4	Topsoil and Turf	7,640	m2	\$ 5,777	\$ 40,755	\$ 14,294	\$ 70,560	\$ 17	\$ 131,386
66	9.5	Concrete Medians	4,200	m2	\$ 88,350	\$ 177,700	\$ 16,338	\$ 161,326	\$ 106	\$ 443,713
67	9.6	Concrete path 9blue grayDriveways	15,160	m2	\$ 232,271	\$ 585,828	\$ 58,972	\$ 452,367	\$ 88	\$ 1,329,439
68	9.8	Hand rails & Ped fencing	1,130	m				\$ 529,000	\$ 468	\$ 529,000
69	9.9	Noise Attenuation	1	m2						
70	9.1	Urban Design big no	1	item						
71	9.11	Guardrail / Wire rope	1,430	m				\$ 150,900	\$ 106	\$ 150,900
72		F Type barrier	600	m	\$ 4,950	\$ 150,000	\$ 2,695	\$ 10,350	\$ 280	\$ 167,995
73	9.12	Landscape - Remove & relocate palm trees, and general landscape	1	Item	\$ 67,692	\$ 31,485	\$ 173,988	\$ 2,053,308	\$ 2,326,472	\$ 2,326,472
74		<b>EE formula - =sum(62:73) Miscellaneous</b>			<b>\$ 399,040</b>	<b>\$ 985,767</b>	<b>\$ 266,286</b>	<b>\$ 6,557,660</b>		<b>\$ 8,208,754</b>
75										
76		<b>EE formula - =sum(4:73)</b>			<b>\$ 3,043,226</b>	<b>\$ 7,531,200</b>	<b>\$ 6,484,043</b>	<b>\$ 28,227,088</b>		<b>\$ 45,285,558</b>
77										
78										
		<b>Total for all items</b>			<b>\$ 3,043,226</b>	<b>\$ 7,531,200</b>	<b>\$ 6,484,043</b>	<b>\$ 28,227,088</b>		<b>\$ 45,285,558</b>

Through - Town: Widened Carriageway



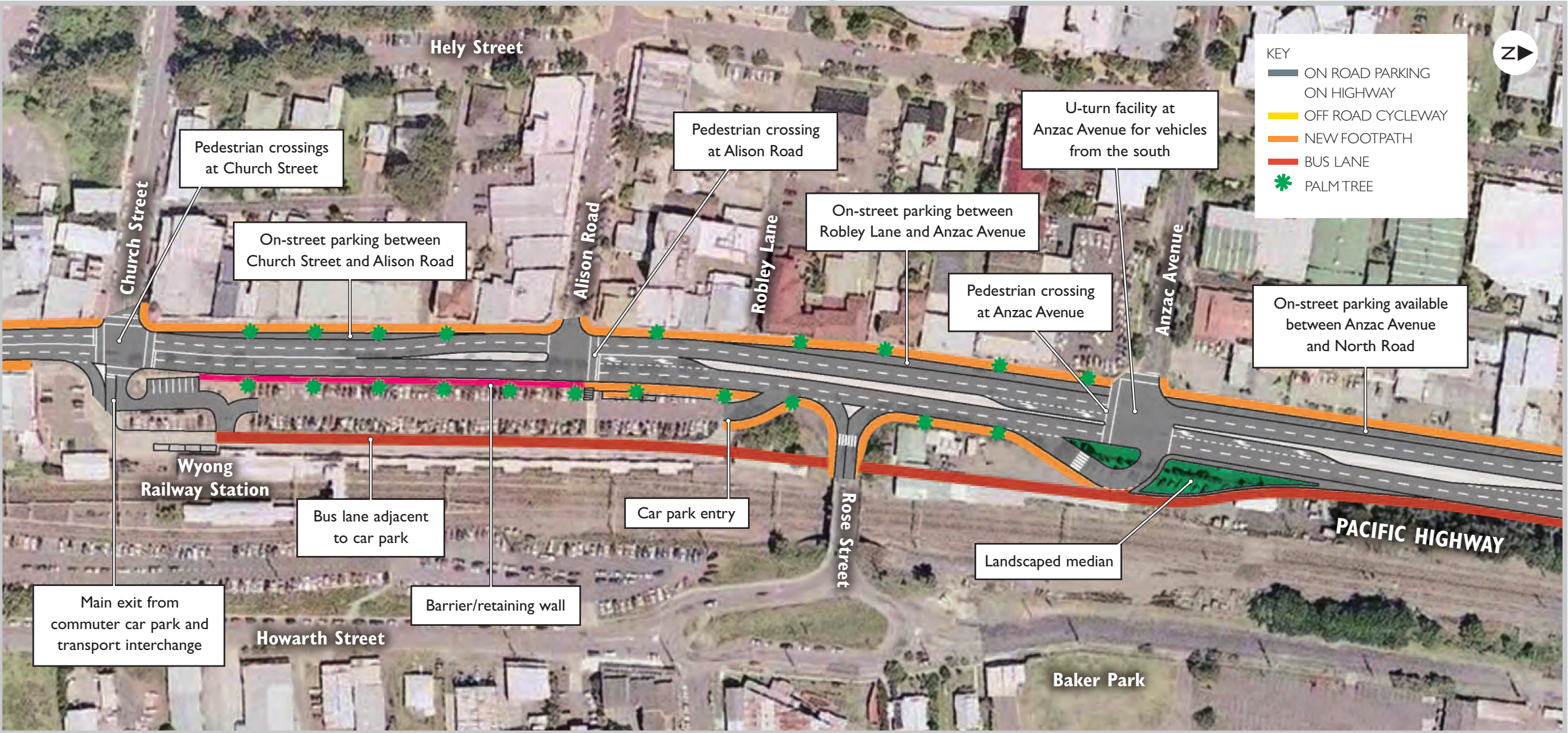


Pacific Highway, Wyong Preferred option – widen existing carriageway



The preferred option alignment would:

- Allow two through lanes in each direction.
- Retain business and retail exposure to passing traffic.
- Retain parking in the town centre generally on the western side of the highway between Church Street and North Road.
- Remove parking on the eastern side of the Pacific Highway.
- Retain the transport interchange in its current configuration with the loss of some parking in the commuter car park (which would need to be replaced with more parking on the eastern side of the railway station).
- Provide convenient pedestrian crossings across the Pacific Highway between Church Street and Anzac Avenue.
- Allow Church Street and Anzac Avenue traffic to circulate into and out of the township.
- Integrate the existing palm trees into the future town centre design.
- Incorporate the Wyong heritage theme into the the future town centre design.





# Appendix 8

## Split-Level Carriageway

- Scope
- Estimate
- Program
- RMS Drawings



## Split Level Carriageway

### Scope

The split-level carriageway is the northbound carriageway retained on the existing highway alignment and the southbound carriageway constructed at a lower level through the existing commuter car park.

- The southern limit is assumed to be just north of the intersection of Johnson Road and the Pacific Highway. The intersection is to remain as is in the current configuration and operate for the Pacific Highway as two-lane two-way with all current turning movements retained i.e. no intersection improvements.
- A one-way service road between Johnson Road and the Wyong River together with an upgrade to South Tacoma Road up to a position just under the existing Rail Bridge. A new intersection with South Tacoma Road and McPherson Road.
- New Bridge over the Wyong River for northbound traffic.
- Refurbish the existing road bridge over the Wyong River consistent with the expected life of the upgraded highway, 40 years.
- Upgrade River Road, local adjustments.
- New dual carriageway Pacific Highway from Johnson Road to approximately 100 m south of Cutler Drive.
- Rose Street Bridge extended over the new southbound carriageway and bus-way.
- Construction of reinforced concrete box section to accommodate new northbound and southbound carriageways adjacent to existing Pacific highway approximately 100 m long.
- For consistency the intersection details at North Road are assumed to be the same as the 'preferred through town' central corridor option i.e. seagull intersection.
- Shared pedestrian cycle-way path full length.
- Urban standard throughout entire length of works, i.e. to include street lighting, kerb and gutter drainage, shared pedestrian cycle-way path, property access, landscaping and parking.
- The northern limit is 100 m south of Cutler Drive.

Client: Client: Roads & Maritime Services  
 Project: Independent Evaluation of Wyong Bypass Options  
 Option: Split Level Carriageway  
 Detail: Project Summary



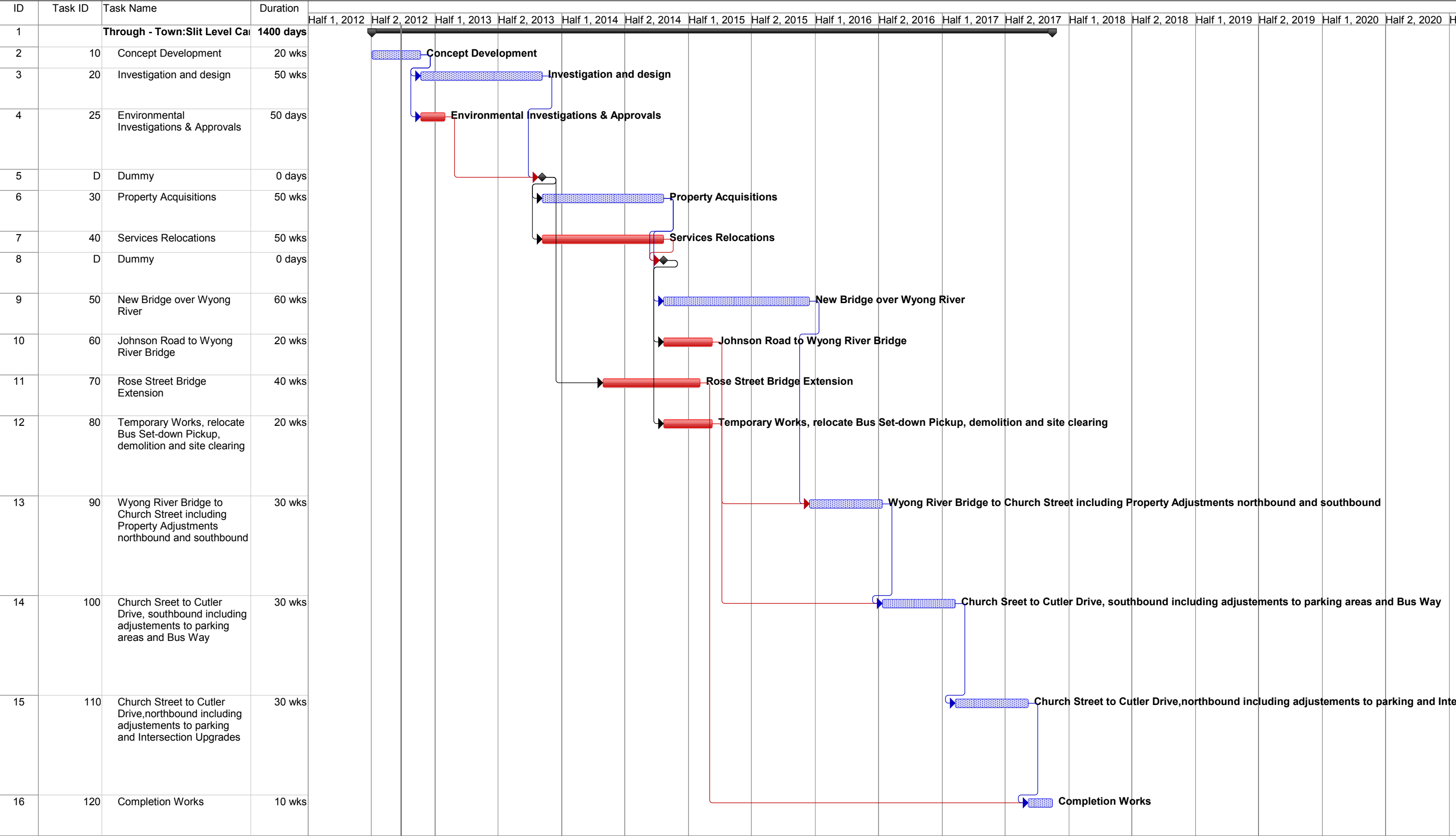
No	Item	Estimate (Exc Contingency)	Contingency		Estimate (Inc Contingency)	% of Total Estimate
			%	Amount		
<b>1</b>	<b>Project Development</b>					
1.1	Route / Concept / EIS	\$2,540,000	40%	\$1,016,000	\$3,556,000	
1.2	Project Management Services	\$541,800	30%	\$162,540	\$704,340	
1.3	Client Representation	\$49,536	10%	\$4,954	\$54,490	
	<b>Sub total</b>	<b>\$3,131,336</b>	<b>38%</b>	<b>\$1,183,494</b>	<b>\$4,314,830</b>	<b>3.0%</b>
<b>2</b>	<b>Investigation and Design</b>					
2.1	Investigation and Design	\$4,187,500	50%	\$2,093,750	\$6,281,250	
2.2	Project Management Services	\$581,245	30%	\$174,374	\$755,619	
2.3	Client Representation	\$24,941	10%	\$2,494	\$27,435	
	<b>Sub total</b>	<b>\$4,793,686</b>	<b>47%</b>	<b>\$2,270,618</b>	<b>\$7,064,303</b>	<b>4.9%</b>
<b>3</b>	<b>Property Acquisitions</b>					
3.1	Property Acquisitions	\$7,542,500	55%	\$4,148,375	\$11,690,875	
3.2	Professional Services for Property	\$113,138	30%	\$33,941	\$147,079	
3.3	Project Management Services	\$153,400	30%	\$46,020	\$199,420	
3.4	Client Representation	\$36,920	10%	\$3,692	\$40,612	
	<b>Sub total</b>	<b>\$7,845,958</b>	<b>54%</b>	<b>\$4,232,028</b>	<b>\$12,077,986</b>	<b>8.4%</b>
<b>4</b>	<b>Public Utility Adjustments</b>					
4.1	Public Utility Adjustments	\$11,500,000	100%	\$11,500,000	\$23,000,000	
4.2	Project Management Services	\$442,000	30%	\$132,600	\$574,600	
4.3	Client Representation	\$33,280	10%	\$3,328	\$36,608	
	<b>Sub total</b>	<b>\$11,975,280</b>	<b>97%</b>	<b>\$11,635,928</b>	<b>\$23,611,208</b>	<b>16.5%</b>
<b>5</b>	<b>Construction of Works</b>					
5.1	Infrastructure	\$68,020,000	28%	\$19,045,600.00	\$87,065,600	
5.2	Project Management Services	\$6,114,450	30%	\$1,834,335	\$7,948,785	
5.3	Client Representation	\$205,350	10%	\$20,535	\$225,885	
	<b>Sub total</b>	<b>\$74,339,800</b>	<b>28%</b>	<b>\$20,900,470</b>	<b>\$95,240,270</b>	<b>66.6%</b>
<b>6</b>	<b>Handover</b>					
6.1	Handover	\$360,000	50%	\$180,000	\$540,000	
6.2	Project Management Services	\$92,300	30%	\$27,690	\$119,990	
6.3	Client Representation	\$9,230	10%	\$923	\$10,153	
	<b>Sub total</b>	<b>\$461,530</b>	<b>45%</b>	<b>\$208,613</b>	<b>\$670,143</b>	<b>0.5%</b>
	<b>TOTAL</b>	<b>\$102,547,589</b>	<b>39%</b>	<b>\$40,431,150</b>	<b>\$142,978,740</b>	<b>100%</b>

No	Item	Estimate (Exc Contingency)	Estimate (Contingency)	Estimate Total
<b>Total Project Management Allowances</b>				
i	Project Management	\$7,925,195	\$2,377,559	\$10,302,754
ii	Client Presentation	\$359,257	\$35,926	\$395,182
<b>Reality Checks</b>				
		<b>Cost / km (\$m)</b>	<b>Length of Road (km)</b>	
iii	Project Cost per kilometer	\$69.41	2.06	
iv	Project Cost per lane kilometer	\$17.35	8.24	

Line	Item	Description	Quantity	Unit	Labour	Material	Plant	Subcontract	Rate	Total
1										
2		WYONG BYPASS - Split Lvl Carriageway - From Nth of Johnson Road to 100m South Of Cutler Drive.								
3		Estimate - July12 - T Rajeswaran								
4	ITEM									
5										
6	1	GENERAL								
7	1.1	Property Adjustments	15	each				\$ 150,000	\$ 10,000	\$ 150,000
8	1.2	Provision for temp bus interchange.	1	each	\$ 8,547	\$ 354,560	\$ 4,440		\$ 367,547	\$ 367,547
9	1.3	Dilapidation survey & report.	60	each				\$ 34,560	\$ 576	\$ 34,560
10										
11		EE formula - =sum(7:9) General			\$ 8,547	\$ 354,560	\$ 4,440	\$ 184,560		\$ 552,107
12										
13	2	TRAFFIC CONTROL								
14	2.1	Traffic Control	1	Item	\$ 131,661	\$ 35,037	\$ 608,981	\$ 1,291,360	\$ 2,067,039	\$ 2,067,039
15		EE formula - =sum(13:14) Traffic Control			\$ 131,661	\$ 35,037	\$ 608,981	\$ 1,291,360		\$ 2,067,039
16										
17	3	ENVIRONMENTAL								
18	3.1	Sedimentation control	1	Item	\$ 61,920	\$ 17,275	\$ 34,490		\$ 113,685	\$ 113,685
19	3.2	Monitoring	1	item				\$ 109,868	\$ 109,868	\$ 109,868
20		EE formula - =sum(18:19) Environmental			\$ 61,920	\$ 17,275	\$ 34,490	\$ 109,868		\$ 223,553
21										
22		DEmolition								
23	4.1	Demolition - Johnson RD to Cutler Dr	1	Item	\$ 88,000	\$ 800	\$ 287,470	\$ 132,000	\$ 508,270	\$ 508,270
24	4.2	Station Masters building & Warner shops	1	item	\$ 55,300	\$ 3,000	\$ 136,419	\$ 31,800	\$ 226,519	\$ 226,519
25	4.2	Rail Corp maintenace yard	1	item	\$ 47,000	\$ 2,400	\$ 109,135	\$ 31,000	\$ 189,535	\$ 189,535
26		EE formula - =sum(23:25) Demolition			\$ 190,300	\$ 6,200	\$ 533,024	\$ 194,800		\$ 924,324
27										
28	5	Earthworks								
29		Earthworks - Johnson road to Cutler Dr.	1,970	Item	\$ 607,957	\$ 1,325,750	\$ 3,192,751	\$ 1,035,418	\$ 3,128	\$ 6,161,876
30	5.1	From Johnson Rd To Cutler Drive - Clear & grub, strip top soil, excavation, cut/fill, select, drainage blanket, unsuitable etc. Lgth is ch to chainage and excludes brdge deck.	1,970	item	\$ 607,957	\$ 1,325,750	\$ 3,192,751	\$ 1,035,418	\$ 3,128	\$ 6,161,876
31		EE formula - =sum(30) Earthworks			\$ 607,957	\$ 1,325,750	\$ 3,192,751	\$ 1,035,418		\$ 6,161,876
32										
33	6	DRAINAGE								
34	6.1	SWD including pipes, pits, open drain, GPT etc.	6,200	m	\$ 414,385	\$ 1,191,194	\$ 535,118	\$ 1,038,010	\$ 513	\$ 3,178,707
35	6.2	Kerb & Gutter - SA, SF & SO types	10,540	m	\$ 32,386	\$ 286,282	\$ 75,333	\$ 215,400	\$ 58	\$ 609,401
36		EE formula - =sum(34:35) Drainage			\$ 446,771	\$ 1,477,476	\$ 610,451	\$ 1,253,410		\$ 3,788,108
37										
38	7	PAVEMENTS								
39	7.1	Local Roads	1	m2						
40	7.2	Pavement - Johnson Rd to Cutler Dr	63,700	m2	\$ 398,652	\$ 1,664,376	\$ 956,698	\$ 4,586,668	\$ 119	\$ 7,606,394
41		EE formula - =sum(39:40) Pavements			\$ 398,652	\$ 1,664,376	\$ 956,698	\$ 4,586,668		\$ 7,606,394
42										
43	8	BRIDGES & STRUCTURES								
44		Structures								
45	8.1	Retaining Walls - Block infill & Concrete Retaining wall.	630	m2	\$ 196,255	\$ 327,166	\$ 103,365	\$ 107,932	\$ 1,166	\$ 734,719

Line	Item	Description	Quantity	Unit	Labour	Material	Plant	Subcontract	Rate	Total
46										
47		Bridge Structures								
48		Bridge No 1 - Wyong River	1,440	item	\$ 72,475	\$ 186,414	\$ 80,678	\$ 7,266,201	\$ 5,282	\$ 7,605,767
49	8.1/a	Prepare bridge corridor including Earth embankment on approaches.	1		\$ 20,834	\$ 41,636	\$ 53,183	\$ 6,762	\$ 122,415	\$ 122,415
50	8.1/b	Bridge across rail crossing including pedestrian walkway.	1,440	m2	\$ 1,188	\$ 108,000	\$ 8,022	\$ 6,950,484	\$ 4,908	\$ 7,067,694
51	8.1/c	Reinforced Earth wall including parapets	320	m2	\$ 50,453	\$ 36,778	\$ 19,473	\$ 308,955	\$ 1,299	\$ 415,659
52										
53	8.2	Bridge 2 - Extend Rose street bridge over new underpass	360	m2	\$ 17,848	\$ 20,140	\$ 140,991	\$ 2,776,355	\$ 8,209	\$ 2,955,333
54	8.2a	bridge	360	m2		\$ 11,000		\$ 2,495,678	\$ 6,963	\$ 2,506,678
55	8.2b	Earthworks under bridge	4,800	m3	\$ 17,600	\$ 1,640	\$ 140,856	\$ 236,160	\$ 83	\$ 396,256
56	8.2c	F Type barrier & crash couison etc	30	m	\$ 248	\$ 7,500	\$ 135	\$ 44,518	\$ 1,747	\$ 52,400
57										
58	8.3	Bridge No 3 - Box segment underpass	240	m2	\$ 236,155	\$ 417,761	\$ 68,894	\$ 269,538	\$ 4,135	\$ 992,347
59	8.3a	Earthworks under bridge	1,386	m3	\$ 3,657	\$ 1,092	\$ 35,585	\$ 67,602	\$ 78	\$ 107,937
60	8.3b	Sheet piling to excavation	1,760	m2				\$ 101,280	\$ 58	\$ 101,280
61	8.3c	Structure - Base, walls, columns & roof slab.	240	m2	\$ 231,837	\$ 396,669	\$ 32,950	\$ 57,275	\$ 2,995	\$ 718,731
62		F Type barrier & crash cushion etc	500	m	\$ 660	\$ 20,000	\$ 359	\$ 43,380	\$ 129	\$ 64,399
63										
64	8.4	Refurbish existing brdge over Wyong River.	1,080	m2				\$ 1,944,000	\$ 1,800	\$ 1,944,000
65		EE formula - =sum(45:64) Bridge & structures			\$ 522,732	\$ 951,482	\$ 393,927	\$ 12,364,026		\$ 14,232,167
66										
67		9 MISCELLANEOUS								
68	9.1a	Lighting - Johnson Rd To Cutler Dr	130	no				\$ 2,054,200	\$ 15,802	\$ 2,054,200
69	9.1b	Allowance to remove existing street light / telegraph poles and decommission supply.	1	no				\$ 500,000	\$ 500,000	\$ 500,000
70	9.2	Traffic Lights - Church st, Allison st, Anzac Ave & Nth Rd	4	no				\$ 1,152,000	\$ 288,000	\$ 1,152,000
71	9.3	Signs - All types	207	no				\$ 171,500	\$ 829	\$ 171,500
72	9.4	Topsoil and Turf	6,020	m2	\$ 6,057	\$ 42,893	\$ 14,804	\$ 74,160	\$ 23	\$ 137,913
73	9.5	Concrete Medians	4,410	m2	\$ 91,042	\$ 186,528	\$ 17,155	\$ 167,592	\$ 105	\$ 462,317
74	9.6	Concrete path	11,165	m2	\$ 171,063	\$ 432,683	\$ 43,432	\$ 333,158	\$ 88	\$ 980,335
75	9.8	Hand rails & Ped fencing	1,130	m				\$ 529,000	\$ 468	\$ 529,000
76	9.9	Noise Attenuation	1	m2						
77	9.1	Urban Design big no	1	item						
78	9.11	Guardrail / Wire rope	1,130	m				\$ 150,900	\$ 134	\$ 150,900
79		F Type barrier	600	m	\$ 4,950	\$ 150,000	\$ 2,695	\$ 10,350	\$ 280	\$ 167,995
80	9.12	Landscape - Remove & relocate palm trees, and general landscape	1	Item	\$ 67,692	\$ 31,485	\$ 173,988	\$ 2,053,308	\$ 2,326,472	\$ 2,326,472
81		EE formula - =sum(68:80) Miscellaneous			\$ 340,804	\$ 843,587	\$ 252,073	\$ 7,196,168		\$ 8,632,631
82										
83		EE formula - =sum(4:80)			\$ 2,709,343	\$ 6,675,744	\$ 6,586,835	\$ 28,216,278		\$ 44,188,200
84										
85										
		Total for all items			\$ 2,709,343	\$ 6,675,744	\$ 6,586,835	\$ 28,216,278		\$ 44,188,200

Through - Town: Split Level Carriageway



Project: Through-Town Slit Level Carriageway  
Date: Tue 25/09/12

Task

Task Progress

Critical Task

Critical Task Progress

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Page 1



