

opo	sed Roundabout Intersection of Middle - Milfield and Cor	ngewai Roa	ds, Paxton	- Works Estima	te - Cessnock	City C	ouncil LGA	
/isio	n							
ov-20	008							
feren	ce Drawings							
2287	0A-CIV-APPC000 to APPC005							
	iminary cost estimate has been prepared from a preliminary concept		Contigency C					
	nly. Rates have been estimated based on market conditions at the date vision which varies over time. Reference is made to PB's cost estimate		A B	Final design checker  Design finalised, but				5% 10%
lifica	ifications statement, a copy of which is attached to this estimate.		C	Preliminary Design,		pproved		20%
			D	No detailed design,	estimate based o	n rules o	f thumb	30%
							Conting	encies value including
em	Description	Quantity	Unit	Rate	Total	Code	Rate	contingency
1 00	PRELIMINARY							
1.01	Site Establishment and demobilisation	1	Item	\$10,000.00	\$10,000.00	В	10%	\$11,000.00
1.02	Clearing, shearing, tub-grinding and stockpiling mulch on site during construction as directed by the Superintendent.	1	Item	\$2,500.00	\$2,500.00	В	10%	\$2,750.00
	Sub Total	- '	ROIT	Ψ2,000.00	\$12,500.00		1070	\$13,750.00
2.00	TOPSOIL							
2.01	Strip topsoil to stockpile on site during construction as directed by the		2					
2.02	Superintendent (100mm Adopted)  Respread previously stockpiled topsoil to road reserves, batters, accessways, trenches, site regrate areas and landscaped areas with	500	m <sup>3</sup>	\$4.00	\$2,000.00	В	10%	\$2,200.00
	andy excess stockpiled on site as driected by the Superintendent	500	m <sup>3</sup>	\$5.00	\$2,500.00	В	10%	\$2.7E0.00
	Sub Total	500	III	\$5.00	\$2,500.00 <b>\$4,500.00</b>	D	1070	\$2,750.00 <b>\$4,950.0</b> 0
3.00	EARTHWORKS Bulk Excavation in all classes of material	Cut (m³)	Fill (m <sup>3</sup> )					
	i) Total Earthworks Measurement (measured from natural surface to							
	finished surface level) ii) allowance for boxing	4906	4546					
	ii) anowarice for boxing iii) spoil from drainage trenches iv) spoil from water trenches							
	v) spoil from Sewer trenches vi) spoil for electrical trenches							
3.01	Cut to fill	4906	m <sup>3</sup>	\$5.00	\$24,530.00	В	10%	\$26,983.00
3.02	Export fill	360	m <sup>3</sup>	\$30.00	\$10,800.00	В	10%	\$11,880.00
	Geotechnical testing and certification of fill to AS 3798 class 1  Sub Total	4906	m <sup>3</sup>	\$0.50	\$2,453.00 <b>\$37,783.00</b>	D	30%	\$3,188.90 <b>\$42,051.90</b>
	PAVEMENT							
	Trim and compact subgrade	4,650	m <sup>2</sup>	\$1.20	\$5,580.00	В	10%	\$6,138.00
4.02	Supply, place, trim and compact approved <b>sub base</b> material 500mm thick	4,650	m <sup>2</sup>	\$40.00	\$186,000.00	С	20%	\$223,200.00
1.03	Supply, place, trim and compact approved basecourse 100mm thick		2					
4 ∩4	10mm Primer Seal to all roads	4,200	m <sup>2</sup>	\$12.50 \$5.00	\$52,500.00	В	10%	\$57,750.00
	50mm AC14 Polymer modified wearing course	4,200 600	m² m²	\$5.00 \$20.00	\$21,000.00 \$12,000.00		10% 10%	\$23,100.00 \$13,200.00
1.06	50mm AC14 wearing course	3,600	m <sup>2</sup>	\$17.50	\$63,000.00		10%	\$69,300.00
1.07	Subsoil drainage lines and flushing points to Council Requirements	200	m	\$35.00	\$7,000.00	D	30%	\$9,100.00
4.08	Geotechnical testing and certification of road pavements  Sub Total	650	m	\$10.00	\$6,500.00 \$353,580.00		30%	\$8,450.00 <b>\$410,238.00</b>
					***************************************			*,
5.00	STORMWATER  Excavate in material other than rock, supply, bed, lay, joint and backfill							
	drainage structures including granular backfill under pavements and anchor blocks where pipe grade exceeds 12%							
	i) 375mm RRJ RCP Class 2		m	\$120.00	\$0.00	D	30%	\$0.00
	ii) 450mm RRJ RCP Class 2 iii) 525mm RRJ RCP Class 2	102	m m	\$145.00 \$170.00	\$14,790.00 \$0.00		30% 30%	\$19,227.00 \$0.00
5.04	iv) 600mm RRJ RCP Class 2		m m	\$200.00	\$0.00	D	30%	\$0.00
5.05	v) 750mm RRJ RCP Class 3 vi) 825mm RRJ RCP Class 4		m m	\$310.00 \$370.00	\$0.00 \$0.00		30% 30%	\$0.00 \$0.00
5.07	vii) 900mm RRJ RCP Class 5		m m	\$440.00	\$0.00		30%	\$0.00
	Stockpile excess material from drainage trenches on site as directed by the Superintendent		m <sup>3</sup>	\$4.00	\$0.00	D	30%	\$0.00
	viii) DGGP with 2.4m EKI	3	No.	\$1,800.00	\$5,400.00		30%	\$7,020.00
5.11	x) Outlet headwall xi) Junction pit	1	No. No.	\$800.00 \$1,800.00	\$800.00 \$1,800.00		30% 30%	\$1,040.00 \$2,340.00
	Sub Total				\$22,790.00			\$29,627.00
	CONCRETE							
	Upright kerb & gutter including drainage connections Pram ramps 2500mm wide x 150mm thick to Council Requirements	283	m	\$40.00	\$11,320.00	В	10%	\$12,452.00
	·		m 2	\$110.00	\$0.00	В	10%	\$0.00
	Median Infill  Cycleway 2.5 wide plain concrete to council requirements	550	m <sup>2</sup>	\$60.00 \$120.00	\$33,000.00 \$0.00	B B	10% 10%	\$36,300.00 \$0.00
	Footpaving 1.2 wide plain concrete to Council requirements		m	\$75.00	\$0.00 \$0.00 <b>\$44,320.00</b>	В	10%	\$0.00 \$0.00 <b>\$48,752.00</b>
	Sub Total							



7.00	WATER							
	Excavate in material other than rock, supply, bed, lay, joint and backfill							
	water services in accordance with approved Water Corportation							
	drawings							
	i) 150mm water main (est)	450	m	\$75.00	\$33,750.00	D	30%	\$43,875.00
7.01	ii) Hydrant	4	No.	\$450.00	\$1,800.00	D	30%	\$2,340.00
7.02	iii) Stop valve	1	No.	\$400.00	\$400.00	D	30%	\$520.00
	iv) Reflux valve		No.	\$500.00	\$0.00	D	30%	\$0.00
	Sub Total				\$35,950.00			\$46,735.00
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8.00	SEWER							
0.00	Excavate in material other than rock, supply, bed, lay, joint and backfill							
	sewer services in accordance with approved Water Corportation							
	drawings							
9 A1	i) 150mm uPVC SN8 sewer line		m	\$75.00	\$0.00	D	30%	\$0.00
			111	\$75.00	φυ.υυ	U	30 /6	\$0.00
8.02	Stockpile excess material from services trenches on ste as directed		m <sup>3</sup>	64.00	\$0.00	_	200/	<b>60.00</b>
0.00	by the Superintendent			\$4.00 \$1,800.00		D	30%	\$0.00 \$0.00
	ii) Manholes		No.	\$1,800.00	\$0.00	D	30%	
	iii) Sewer Pump Station		item		\$0.00	D	30%	\$0.00
8.05	Iv) Rising Main		item	\$200,000.00	\$0.00	D	30%	\$0.00
	Sub Total				\$0.00			\$0.00
9.00	ELECTRICAL							
J.00	Electrical reticulation in accordance with approved design drawings						<del>                                     </del>	
	a constitution of the approved design drawings							
9.01	i) Excavate in material other than rock, Common Services Trenching							
			m	\$30.00	\$0.00	С	20%	\$0.00
9.02	ii) Street lighting	12	No.	\$3,000.00	\$36,000.00	С	20%	\$43,200.00
	iii) kiosk Substations		Item	\$60,000.00	\$0.00	C	20%	\$0.00
	iv) LV cables		m	\$150.00	\$0.00	C	20%	\$0.00
	v) HV cables inside site boundary		m	\$250.00	\$0.00	C	20%	\$0.00
	vi) HV cables lead in		m	\$250.00	\$0.00	C	20%	\$0.00
	vii) Road Crossings	3	Item	\$2,500.00	\$7,500.00	C	20%	\$9,000.00
	viii) Relocation of powerpoles	5	No.	\$10,000.00	\$50,000.00	C	20%	\$60,000.00
.00	Sub Total	<u> </u>	INO.	ψ10,000.00	\$93,500.00		2070	\$112,200.00
	Sub Total				φ <del>3</del> 3,300.00			\$112,200.00
0.00	LANDSCAPING							
	Respread previously stockpiled mulch (75mm min.) and grass							
	seeding to all batters, lot regrading areas, backfilled trenches and							
	denuded areas including watering, seeding fertilizingand maintenance							
	for a period of 3 months from practical completion.		ha	\$2,000.00	\$0.00	В	10%	\$0.00
າດາ	Fully turf all road reserves from boundary to boundary including		πα	Ψ2,000.00	Ψ0.00		1070	Ψ0.00
J.UZ								
	watering, fertilizing, and maintenance for a period of 3 months from							
	practical completion. Place 2 strips of turf along all cut batters parallel	4.005	2	04.50	040.040.50	_	400/	000 040 75
	to contour to prevent scour.	4,225	m <sup>2</sup>	\$4.50	\$19,012.50	В	10%	\$20,913.75
	Street Trees		No.	\$600.00	\$0.00	В	10%	\$0.00
	Bulk area landscaping works		Ha	\$10,000.00	\$0.00	D	30%	\$0.00
0.1	Sub Total				\$19,012.50			\$20,913.75
1 00	EROSION CONTROL							
	Sediment control devices in accordance with sediment and Erosion							
.01	control drawings	1	Item	\$10,000.00	\$10,000.00	D	30%	\$13,000.00
	Sub Total		item	ψ10,000.00	\$10,000.00		3070	\$13,000.00
	Sub Total				\$10,000.00			\$13,000.00
.00	Linemarking and Signage							
	'No Stopping' signs		Item	\$500.00	\$0.00	С	20%	\$0.00
	'No Through Road' signs		Item	\$500.00	\$0.00	C	20%	\$0.00
	Chevron board	1	Item	\$750.00	\$750.00	D	30%	\$975.00
	Miscellaneous signs	1	Item	\$10,000.00	\$10,000.00	D	30%	\$13,000.00
	Retaining wall		m <sup>2</sup>	\$360.00	\$0.00	С	20%	\$0.00
	Landscaping	1	Item	\$10,000.00	\$10,000.00	D	30%	\$13,000.00
	Linemarking		ItOIII	\$10,000.00	ψ10,000.00		3070	ψ10,000.00
07	Lane markings	700	m	\$3.00	\$2,100.00	В	10%	\$2,310.00
	Hold lines	44	m	\$3.40	\$149.60	В	10%	\$164.56
	Turning arrows		item	\$50.00	\$0.00	В	10%	\$0.00
	Guardrail	10	m	\$150.00	\$1,500.00	В	10%	\$1,650.00
. 10	Sub Total	10		ψ130.00	\$24,499.60	U	1070	\$31,099.56
	Jub Total				<b>Ф</b> 24,433.00			<b>და I , ს</b> ფფ. ენ
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.00	MISCELLANEOUS							
	Survey set out work as well as work as executed drawings to Council							
	and utilities authorities requirements.	1	Item	\$10,000.00	\$10,000.00	D	30%	\$13,000.00
					\$10,000.00			\$13,000.00
3.1	Sub Total		1					
3.1	Sub Total			<u> </u>				
3.1								
3.1	Grand Total				\$668,435.10			\$786,317.21
3.1					\$668,435.10 \$66,843.51			\$786,317.21 \$78,631.72
3.1	Grand Total GST				\$66,843.51			\$78,631.72
3.1	Grand Total							
3.1	Grand Total GST  Total including GST				\$66,843.51			\$78,631.72 \$864,948.93
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3.1	Grand Total GST  Total including GST				\$66,843.51			\$78,631.72 \$864,948.93
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