

Officer South Employment PSP – Transport

STANTEC CONCEPT DESIGNS – SEPTEMBER 2023

High-level indicative costs

Note: These costings are draft and based on similar benchmark rates, plus additional allowances and contingencies

						BENCHMARK		SODIC SOILS ALLOWANCE		CUT/FILL ALLOWANCE		SERVICES ALLOWANCE		OTHER ALLOWANCE				PSP APPORTIONMENT		
ITEM NO.	PROJECT NUMBER	LOCATION & TYPE	QUANTITY	QUANTITY UNITS	QUANTITY BASIS	BENCHMARK ITEM	BENCHMARK 2023 RATE	%	\$	%	\$	%	\$	%	\$	ADOPTED RATE \$	EST. AMOUNT \$	% TO PSP	\$ TO PSP	COMMENTS
ROADS																				
1	RD-02-01	Road: Lecky Road – western end Type: Secondary Arterial – Interim	237.71	LM	Road length	Benchmark Item 2	\$4,987.50	20%	\$997.50	10%	\$498.75	82.2%	\$4,100.00	10%	\$498.75	\$11,082.50	\$2,634,454.32	100%	\$2,634,454.32	High-level estimate based on similar benchmark rate plus allowances
2	RD-02-02	Road: Lecky Road between IN-03 & IN-04 Type: Secondary Arterial – Interim	135.00	LM	Road length	Benchmark Item 2	\$4,987.50	20%	\$997.50	10%	\$498.75	57.7%	\$2,877.78	10%	\$498.75	\$9,860.28	\$1,331,137.50	100%	\$1,331,137.50	
3	RD-02-03	Road: Lecky Road between IN-04 & IN-05 Type: Secondary Arterial – Interim	111.00	LM	Road length	Benchmark Item 2	\$4,987.50	20%	\$997.50	10%	\$498.75	171.6%	\$8,558.56	10%	\$498.75	\$15,541.06	\$1,725,057.50	100%	\$1,725,057.50	
4	RD-02-04	Road: Lecky Road – eastern end Type: Secondary Arterial – Interim	125.00	LM	Road length	Benchmark Item 2	\$4,987.50	20%	\$997.50	10%	\$498.75	152.4%	\$7,600.00	10%	\$498.75	\$14,582.50	\$1,822,812.50	100%	\$1,822,812.50	
5	RD-03-01	Road: Thomsons Road between IN-09 & IN-10 Type: Primary Arterial – Interim	202.00	LM	Road length	Benchmark Item 1	\$5,500.50	20%	\$1,100.10	10%	\$550.05	27.0%	\$1,485.15	10%	\$550.05	\$9,185.85	\$1,855,541.40	100%	\$1,855,541.40	
6	RD-03-02	Road: Thomsons Road between IN-10 & IN-11 Type: Primary Arterial – Interim	263.00	LM	Road length	Benchmark Item 1	\$5,500.50	20%	\$1,100.10	10%	\$550.05	0.0%	\$-	10%	\$550.05	\$7,700.70	\$2,025,284.10	100%	\$2,025,284.10	
TOTAL ROAD PROJECTS			1073.71	LM													\$11,394,287.32		\$11,394,287.32	
INTERSECTIONS																				
7	IN-01	Intersection: Officer South Road (northern end) & east–west connector road Type: Primary/connector – cross intersection	1	item	per intersection	Benchmark Item 7	\$6,394,032.00	20%	\$1,278,806.40	10%	\$639,403.20	17.2%	\$1,102,000.00	10%	\$639,403.20	\$10,053,644.80	\$10,053,644.80	100%	\$10,053,644.80	High-level estimate based on similar benchmark rate plus allowances
8	IN-02	Intersection: Lecky Road (western end) & north–south Connector Road Type: Secondary/connector – cross intersection	1	item	per intersection	Benchmark Item 9	\$5,896,080.00	20%	\$1,179,216.00	10%	\$589,608.00	28.0%	\$1,653,004.50	10%	\$589,608.00	\$9,907,516.50	\$9,907,516.50	100%	\$9,907,516.50	
9	IN-03	Intersection: Lecky Road & Stephens Road Type: Secondary/Connector – Cross Intersection	1	item	per intersection	Benchmark Item 9	\$5,896,080.00	20%	\$1,179,216.00	10%	\$589,608.00	31.6%	\$1,864,000.00	10%	\$589,608.00	\$10,118,512.00	\$10,118,512.00	100%	\$10,118,512.00	
10	IN-04	Intersection: Lecky Road & north–south connector road Type: Secondary/Connector – Cross Intersection	1	item	per intersection	Benchmark Item 9	\$5,896,080.00	20%	\$1,179,216.00	10%	\$589,608.00	50.2%	\$2,961,000.00	10%	\$589,608.00	\$11,215,512.00	\$11,215,512.00	100%	\$11,215,512.00	
11	IN-05	Intersection: Officer South Road & Lecky Road Type: Primary/Secondary – Cross Intersection	1	item	per intersection	Benchmark Item 6	\$9,492,552.00	20%	\$1,898,510.40	10%	\$949,255.20	14.8%	\$1,406,500.00	10%	\$949,255.20	\$14,696,072.80	\$14,696,072.80	100%	\$14,696,072.80	
12	IN-06	Intersection: Lecky Road & north–south connector road Type: Secondary/Connector – Cross Intersection	1	item	per intersection	Benchmark Item 9	\$5,896,080.00	20%	\$1,179,216.00	10%	\$589,608.00	0.0%	\$-	10%	\$589,608.00	\$8,254,512.00	\$8,254,512.00	100%	\$8,254,512.00	
13	IN-07	Intersection: Lecky Road & south connector road Type: Secondary/Connector –T Intersection	1	item	per intersection	Benchmark Item 15	\$4,855,032.00	20%	\$971,006.40	10%	\$485,503.20	0.0%	\$-	10%	\$485,503.20	\$6,797,044.80	\$6,797,044.80	100%	\$6,797,044.80	
14	IN-08	Intersection: Officer South Road & east west connector road Type: Primary/Connector – Cross Intersection	1	item	per intersection	Benchmark Item 7	\$6,394,032.00	20%	\$1,278,806.40	10%	\$639,403.20	19.2%	\$1,225,000.00	10%	\$639,403.20	\$10,176,644.80	\$10,176,644.80	100%	\$10,176,644.80	
15	IN-09	Intersection: Thompsons Road (western end) & north connector road Type: Primary/Connector – T-Intersection	1	item	per intersection	Benchmark Item 13	\$5,420,016.00	20%	\$1,084,003.20	10%	\$542,001.60	0.0%	\$-	10%	\$542,001.60	\$7,588,022.40	\$7,588,022.40	100%	\$7,588,022.40	
16	IN-10	Intersection: Officer South Road & Thompsons Road Type: Primary/Primary – Cross Intersection	1	item	per intersection	Benchmark Item 5	\$9,585,576.00	20%	\$1,917,115.20	10%	\$958,557.60	0.0%	\$-	10%	\$958,557.60	\$13,419,806.40	\$13,419,806.40	100%	\$13,419,806.40	
17	IN-11	Intersection: Thompsons Road & north–south connector road Type: Primary/Connector – Cross Intersection	1	item	per intersection	Benchmark Item 7	\$6,394,032.00	20%	\$1,278,806.40	10%	\$639,403.20	0.0%	\$-	10%	\$639,403.20	\$8,951,644.80	\$8,951,644.80	100%	\$8,951,644.80	

						BENCHMARK		SODIC SOILS ALLOWANCE		CUT/FILL ALLOWANCE		SERVICES ALLOWANCE		OTHER ALLOWANCE				PSP APPORTIONMENT						
ITEM NO.	PROJECT NUMBER	LOCATION & TYPE	QUANTITY	QUANTITY UNITS	QUANTITY BASIS	BENCHMARK ITEM	BENCHMARK 2023 RATE	%	\$	%	\$	%	\$	%	\$	ADOPTED RATE \$	EST. AMOUNT \$	% TO PSP	\$ TO PSP	COMMENTS				
18	IN-12	Intersection: Thompsons Road & north connector road Type: Primary/Connector – T-Intersection	1	item	per intersection	Benchmark Item 13	\$5,420,016.00	20%	\$1,084,003.20	10%	\$542,001.60	0.0%	\$-	10%	\$542,001.60	\$7,588,022.40	\$7,588,022.40	100%	\$7,588,022.40	High-level estimate based on similar benchmark rate plus allowances				
TOTAL INTERSECTION PROJECTS							\$77,539,608.00		\$15,507,921.60		\$7,753,960.80		\$10,211,504.50		\$7,753,960.80		\$118,766,955.70		\$118,766,955.70					
BRIDGES																								
29	BR-01	Bridge: Lecky Road (eastern end) over Lower Gum Scrub Creek Type: Secondary Super-T – Interim (15m wide) plus fill approaches (2 no. x 55m)	83	LM	bridge length	Benchmark Item 20	\$152,976.60	20%	\$30,595.32	10%	\$15,297.66	0%	\$-	15%	\$22,946.49	\$221,816.07	\$18,410,733.81	50%	\$9,205,366.91	High-level estimate based on similar benchmark rate plus allowances				
30	BR-02	Bridge: Thompsons Road (Eastern End) over Lower Gum Scrub Creek Type: Primary Super-T – Interim (16.5m wide) plus fill approaches (2 no. x 60m)	101	LM	bridge length	Benchmark Item 18	\$166,964.40	20%	\$33,392.88	10%	\$16,696.44	0%	\$-	15%	\$25,044.66	\$242,098.38	\$24,451,936.38	50%	\$12,225,968.19					
31	PB-01	Pedestrian bridge: Cardinia Creek – north Type: 15 no. spans each 25m + 2 no. approach slabs each 4m + 2 no. filled ramp approaches each with GGF culvert access	375	LM	bridge length	Benchmark Item 24	\$47,937.00	20%	\$9,587.40	10%	\$4,793.70	0%	\$-	5%	\$2,396.85	\$64,715.30	\$24,268,237.50	50%	\$12,134,118.75					
32	PB-02	Pedestrian bridge: Lower Gum Scrub Creek – north Type: 3 no. spans each 25m + 2 no. approach slabs each 4m + 2 no. filled ramp approaches (no GGF culvert access)	83	LM	bridge length	Benchmark Item 24	\$47,937.00	0%	\$-	0%	\$-	0%	\$-	5%	\$-	\$47,937.05	\$3,978,775.15	50%	\$1,989,387.58					
TOTAL PEDESTRIAN BRIDGE PROJECTS																	\$71,109,682.84		\$35,554,841.42					
CULVERTS																								
33	CU-01	Culvert: West side of IN-05 (Lecky Road/Officer South Road intersection) Type: 2100mm wide x 1500mm high x 2440m BC units 25 no. units x 2 (side by side) (Length = 61m) plus endwalls	256.2	square metres	Culvert Plan Area	N/A	\$768,600.00	20%	\$153,720.00	10%	\$76,860.00	0%	\$-	10%	\$76,860.00	\$1,076,040.00	\$1,076,040.00	100%	\$1,076,040.00	High-level estimate based on similar benchmark rate plus allowances				
34	CU-02	Culvert: West side of IN-08 (Officer South Road/east west connector intersection) Type: 3000mm wide x 1500mm high x 2440mm long BC units 33 no. units x 2 no. (side by side) (total length = 80.52m) = plus endwalls	483.12	square metres	Culvert Plan Area	N/A	\$1,449,360.00	20%	\$289,872.00	10%	\$144,936.00	0%	\$-	10%	\$144,936.00	\$2,029,104.00	\$2,029,104.00	100%	\$2,029,104.00					
35	CU-03	Culvert: Thompsons Road – western end of IN-10 Type: 3000mm wide x 1500mm high x 2440mm long BC units 22 no. units x 2 no. (side by side) (length = 53.684m)	322.08	square metres	Culvert Plan Area	N/A	\$966,240.00	20%	\$-	10%	\$-	0%	\$-	10%	\$96,624.00	\$1,062,864.00	\$1,062,864.00	100%	\$1,062,864.00					
36	CU-04	Culvert: Lecky Road – between IN-02 & IN-03 Type: 2100mm wide x 1500mm high x 2.44m long BC units 20 no. units each 2440mm long (length = 48.80m)	102.48	square metres	Culvert Plan Area	N/A	\$307,440.00	20%	\$-	10%	\$-	0%	\$-	10%	\$30,744.00	\$338,184.00	\$338,184.00	100%	\$338,184.00					
TOTAL CULVERT PROJECTS																	\$4,506,192.00		\$4,506,192.00					
PEDESTRIAN-OPERATED SIGNALS																								
35	POS-01	Pedestrian-operated signals: Old Lecky Road – east of Officer South Road (north of IN-06) Type: Mid-block pedestrian-operated signals	1	item	per item	N/A	\$300,000.00	20%	\$60,000.00	10%	\$30,000.00	10%	\$30,000.00	10%	\$30,000.00	\$420,000.00	\$420,000.00	100%	\$420,000.00	Non-benchmark item				
TOTAL PEDESTRIAN-OPERATED PROJECTS																	\$420,000.00		\$420,000.00					
TOTAL TRANSPORT ITEMS																	\$206,197,117.86		\$170,642,276.44					