Attachement 3 - Gagné Road Reconstruction Cost Estimate

Option 1 - Full Reconstruction with Asphalt Surface

Item	Unit	$/unit	Description	Qty	Cost
Removal of existing roadway full depth	m2	$ 6.00	8m wide	8000.00	$ 48,000.00
Removal of existing earth excavation	m3	$ 15.00	2m deep * 8m wide * 1500m long	24000.00	$ 360,000.00
Removal of existing Sanitary manhole	ea	$ 280.90	1 every 100m	0.00	$ -
Removal of existing Storm sewer	m	$ 15.90	1000m of closed ditch per side	0.00	$ -
Removal of existing Storm catchbasin	ea	$ 10.60	1 cb for every 30m of closed ditch	0.00	$ -
Removal of existing Sanitary sewer	m	$ 8.48	1000m	0.00	$ -
Removal of existing Hydrant	ea	$ 662.50	1 every 100m	0.00	$ -
Removal of existing Valve	ea	$ 312.70	1 every 100m	0.00	$ -
Removal of existing Watermain	m	$ 31.80	1000m	0.00	$ -
			Subtotal for Removal	**Total/km**	**$ 408,000.00**
				Total/m^2	**$ 60.90**
New Watermain, line only	m	$ 417.48	1000m of 150mm PVC pipe	0.00	$ -
New Fire Hydrant	ea	$ 6,413.00	1 every 100m	0.00	$ -
New Sanitary sewer, line only	m	$ 169.60	1000m of 200mm PVC pipe	0.00	$ -
New Sanitary manhole	ea	$ 3,816.00	1 every 100m	0.00	$ -
New Storm sewer (closed ditch)	m	$ 185.50	1000m of 450mm perforated HDPE pipe per side	0.00	$ -
New Storm catchbasin (closed ditch)	ea	$ 212.00	1 cb for every 30m of closed ditch	0.00	$ -
Non-Woven Geotextile	m2	$ 3.38	9m * 1500m	13500.00	$ 45,630.00
Supply and Place Granular Lightweight fill	tonne	$ 17.00	2000mm*8m wide * 1500m long * 1.7	40800.00	$ 693,600.00
Supply and Place Granular "B" type II	tonne	$ 20.00	400mm * 8m wide * 1500m long * 1.7	8160.00	$ 163,200.00
Supply and Place Granular "A"	tonne	$ 20.00	150mm * 8m wide * 1500m long * 1.7	3060.00	$ 61,200.00
HL-8 Asphalt for Roadway	tonne	$ 175.00	40mm * 6.7m wide * 1500m * 2.25	904.50	$ 158,287.50
Tack Coat	m2	$ 1.06	6.7m * 1500m	10050.00	$ 10,653.00
HL-3 Asphalt for Roadway	tonne	$ 185.50	40mm * 6.7m wide * 1500m long * 2.25	904.50	$ 167,784.75
Shouldering with Granular "A"	tonne	$ 20.00	80mm * 1m wide * 1500m long	408.00	$ 8,160.00
Entrance reinstatment	ea	$ 1,000.00	Resident entrance reinstatment	45.00	$ 45,000.00
Line Painting	m	$ 1.38	1 yellow, 2 whites	4500.00	$ 6,201.00
Landscaping/Ditching (Top Soil & Sod)	m2	$ 20.00	2m wide * 1500m long per side	6000.00	$ 120,000.00
Traffic Control	ls	$ 10,000.00	Flag man, Barrels, Detours, Closures, etc	1.00	$ 10,000.00
Geotech Engineering Report	ls	$ 1,500.00	Bore Holes Report - 15 holes / km	15.00	$ 22,500.00
			Subtotal for Reconstruction	**Total/km**	**$ 1,512,216.25**
				Total/m^2	**$ 126.02**
				Subtotal	**$ 1,920,216.25**
Engineering & Contingencies	**ls**	**35%**	**15% Engineering + 20% Contingencies**		**$ 672,075.69**
				Total	**$ 2,592,291.94**

Attachement 3 - Gagné Road Reconstruction Cost Estimate

Option 2 - Full Reconstruction with Surface Treatment

Item	Unit	$/unit	Description	Qty	Cost
Removal of existing roadway full depth	m2	$ 6.00	8m wide	8000.00	$ 48,000.00
Removal of existing earth excavation	m3	$ 15.00	2m deep * 8m wide * 1500m long	24000.00	$ 360,000.00
Removal of existing Sanitary manhole	ea	$ 280.90	1 every 100m	0.00	$ -
Removal of existing Storm sewer	m	$ 15.90	1000m of closed ditch per side	0.00	$ -
Removal of existing Storm catchbasin	ea	$ 10.60	1 cb for every 30m of closed ditch	0.00	$ -
Removal of existing Sanitary sewer	m	$ 8.48	1000m	0.00	$ -
Removal of existing Hydrant	ea	$ 662.50	1 every 100m	0.00	$ -
Removal of existing Valve	ea	$ 312.70	1 every 100m	0.00	$ -
Removal of existing Watermain	m	$ 31.80	1000m	0.00	$ -
			Subtotal for Removal	**Total/km**	**$ 408,000.00**
				Total/m^2	**$ 60.90**
New Watermain, line only	m	$ 417.48	1000m of 150mm PVC pipe	0.00	$ -
New Fire Hydrant	ea	$ 6,413.00	1 every 100m	0.00	$ -
New Sanitary sewer, line only	m	$ 169.60	1000m of 200mm PVC pipe	0.00	$ -
New Sanitary manhole	ea	$ 3,816.00	1 every 100m	0.00	$ -
New Storm sewer (closed ditch)	m	$ 185.50	1000m of 450mm perforated HDPE pipe per side	0.00	$ -
New Storm catchbasin (closed ditch)	ea	$ 212.00	1 cb for every 30m of closed ditch	0.00	$ -
Non-Woven Geotextile	m2	$ 3.38	9m * 1500m	13500.00	$ 45,630.00
Supply and Place Granular Lightweight fill	tonne	$ 17.00	2000mm*8m wide * 1500m long * 1.7	40800.00	$ 693,600.00
Supply and Place Granular "B" type II	tonne	$ 20.00	400mm * 8m wide * 1500m long * 1.7	8160.00	$ 163,200.00
Supply and Place Granular "A"	tonne	$ 20.00	150mm * 8m wide * 1500m long * 1.7	3060.00	$ 61,200.00
Surface treatment	m2	$ 10.00	6.7m * 1500m as per OPSS 304	10050.00	$ 100,500.00
Shouldering with Granular "A"	tonne	$ 20.00	80mm * 1m wide * 1500m long	408.00	$ 8,160.00
Entrance reinstatment	ea	$ 1,000.00	Resident entrance reinstatment	45.00	$ 45,000.00
Line Painting	m	$ 1.38	1 yellow, 2 whites	4500.00	$ 6,201.00
Landscaping/Ditching (Top Soil & Sod)	m2	$ 20.00	2m wide * 1500m long per side	6000.00	$ 120,000.00
Traffic Control	ls	$ 10,000.00	Flag man, Barrels, Detours, Closures, etc	1.00	$ 10,000.00
Geotech Engineering Report	ls	$ 1,500.00	Bore Holes Report - 15 holes / km	15.00	$ 22,500.00
			Subtotal for Reconstruction	**Total/km**	**$ 1,275,991.00**
				Total/m^2	**$ 106.33**
				Subtotal	**$ 1,683,991.00**
Engineering & Contingencies	**ls**	**35%**	**15% Engineering + 20% Contingencies**		**$ 589,396.85**
				Total	**$ 2,273,387.85**