

**TOWN OF TECUMSEH
WATER AND WASTEWATER MASTER PLAN UPDATE - 2018**

APPENDIX A9-4 - CAPITAL COST ESTIMATES - WASTEWATER

Item	Quantity	Unit	Unit Price	Total Price
WW-1 West Tecumseh Trunk Sewer, CR 22 to CP Railway				
1.0 Construction				
1200mm SAN trunk Sewer	1,820	m	\$2,110.00	\$3,840,200.00
Metering Flume c/w SCADA connection		LS		\$100,000.00
Sub-Total - Construction				\$3,940,200.00
2.0 Contingency (@ 15%)				\$591,030.00
3.0 Engineering (@15%)				\$679,700.00
<u>TOTAL</u>				\$5,210,930.00
WW-2 Tecumseh Hamlet Diversion Sewer				
1.0 Construction				
600 mm Diversion Sewer on intersection Road	560	m	\$1,130.00	\$632,800.00
Sub-Total - Construction				\$632,800.00
2.0 Contingency (@ 15%)				\$94,920.00
3.0 Engineering (@15%)				\$109,200.00
<u>TOTAL</u>				\$836,920.00
WW-4 Sylvestre Pumping Station Upgrade				
1.0 Construction				
Pumps		LS		\$50,000.00
Stand-By Power		LS		\$200,000.00
Re-align Forcemain - 200mm	450	m	\$520.00	\$234,000.00
Sub-Total - Construction				\$484,000.00
2.0 Contingency (@ 15%)				\$72,600.00
3.0 Engineering (@15%)				\$83,500.00
<u>TOTAL</u>				\$640,100.00
WW-5A North Talbot Road Trunk Sewer, Oldcastle Road (North Talbot to Chrysler Greenway)				
1.0 Construction				
750 mm SAN trunk Sewer on 8th Concession Road	650	m	\$1,940.00	\$1,261,000.00
600 mm SAN trunk Sewer on 8th Concession Road	750	m	\$1,130.00	\$847,500.00
450mm SAN trunk Sewer on North Talbot Road	0	m	\$950.00	\$0.00
Sub-Total - Construction				\$2,108,500.00
2.0 Contingency (@ 15%)				\$316,280.00
3.0 Engineering (@15%)				\$363,700.00
<u>TOTAL</u>				\$2,788,480.00
WW-5B North Talbot Road Trunk Sewer, Oldcastle Road to 475 m east of Oldcastle Road				
1.0 Construction				
750 mm SAN trunk Sewer on 8th Concession Road	0	m	\$1,940.00	\$0.00
600 mm SAN trunk Sewer on 8th Concession Road	0	m	\$1,130.00	\$0.00
450mm SAN trunk Sewer on North Talbot Road	475	m	\$950.00	\$451,250.00
Sub-Total - Construction				\$451,250.00
2.0 Contingency (@ 15%)				\$67,690.00
3.0 Engineering (@15%)				\$77,800.00
<u>TOTAL</u>				\$596,740.00

WW-6	West Tecumseh Trunk Sewer, CP Railway to CR42						
1.0	Construction						
	1200mm SAN trunk Sewer	1,335	m	\$2,110.00		\$2,816,850.00	
	Extra-Over for Undercrossing of CP Railway, HEPC Corridor				LS	\$300,000.00	
	Sub-Total - Construction					\$3,116,850.00	
2.0	Contingency (@ 15%)					\$467,530.00	
3.0	Engineering (@15%)					\$537,700.00	
4.0	Allowance for Easement Acquisition					\$36,000.00	
	<u>TOTAL</u>					\$4,158,080.00	
WW-7	CR 42 Diversion Sewer						
1.0	Construction						
	600mm SAN trunk Sewer	600	m	\$1,130.00		\$678,000.00	
	Decommission St Alphonse Pumping Station				LS	\$75,000.00	
	Sub-Total - Construction					\$753,000.00	
2.0	Contingency (@ 15%)					\$112,950.00	
3.0	Engineering (@15%)					\$129,900.00	
	<u>TOTAL</u>					\$995,850.00	
WW-8A	South Tecumseh Trunk Sewer, CR 42, Odessa Drive to 11th Concession Road						
1.0	Construction						
	1200mm SAN trunk Sewer	600	m	\$2,390.00		\$1,434,000.00	
	Sub-Total - Construction					\$1,434,000.00	
2.0	Contingency (@ 15%)					\$215,100.00	
3.0	Engineering (@15%)					\$247,400.00	
	<u>TOTAL</u>					\$1,896,500.00	
WW-8B	South Tecumseh Trunk Forcemain, CR 42 to Highway 401						
1.0	Construction						
	300mm SAN Forcemain	4,900	m	\$520.00		\$2,548,000.00	
	Valve and Drain Chambers	6	ea	\$30,000.00		\$180,000.00	
	Sub-Total - Construction					\$2,728,000.00	
2.0	Contingency (@ 15%)					\$409,200.00	
3.0	Engineering (@15%)					\$470,600.00	
	<u>TOTAL</u>					\$3,607,800.00	
WW-9A	South Tecumseh Trunk Forcemain, Hwy 401 to North Talbot Road						
1.0	Construction						
	300mm SAN Forcemain	2,050	m	\$520.00		\$1,066,000.00	
	Valve and Drain Chambers	6	ea	\$30,000.00		\$180,000.00	
	Sub-Total - Construction					\$1,246,000.00	
2.0	Contingency (@ 15%)					\$186,900.00	
3.0	Engineering (@15%)					\$214,900.00	
	<u>TOTAL</u>					\$1,647,800.00	
WW-9B	South Tecumseh Trunk Sewer, 12th Concession Road to Malden Road						
1.0	Construction						
	600mm Trunk Sewer	850	m	\$1,130.00		\$960,500.00	
	Sub-Total - Construction					\$960,500.00	
2.0	Contingency (@ 15%)					\$144,080.00	
3.0	Engineering (@15%)					\$165,700.00	
	<u>TOTAL</u>					\$1,270,280.00	

WW-10 Maidstone Hamlet Trunk Sewer						
1.0	Construction					
	600mm Trunk Sewer	1,350	m	\$1,130.00		\$1,525,500.00
	Sub-Total - Construction					\$1,525,500.00
2.0	Contingency (@ 15%)					\$228,830.00
3.0	Engineering (@15%)					\$263,100.00
	<u>TOTAL</u>					\$2,017,430.00
WW-11A Southwest Tecumseh Trunk Sewer, Phase 1						
1.0	Construction					
	600mm Trunk Sewer on Greenway / McCord	640	m	\$1,130.00		\$723,200.00
	375mm Local Sewer on Walker Road	235	m	\$574.00		\$134,890.00
	Sub-Total - Construction					\$858,090.00
2.0	Contingency (@ 15%)					\$128,710.00
3.0	Engineering (@15%)					\$148,000.00
4.0	Easement Allowance (6m wide by 200m long)					\$60,000.00
	<u>TOTAL</u>					\$1,194,800.00
WW-11B Southwest Tecumseh Trunk Sewer, Phase 2						
1.0	Construction					
	450mm Trunk Sewer, 8th Concession Road and Easement to Walker Road	705	m	\$950.00		\$669,750.00
	Extra-over for Highway 3 undercrossing by Jack & Bore	80	m	\$3,000.00		\$240,000.00
	Sub-Total - Construction					\$909,750.00
2.0	Contingency (@ 15%)					\$136,460.00
3.0	Engineering (@15%)					\$156,900.00
4.0	Easement Allowance (6m wide by 270m long)					\$81,000.00
	<u>TOTAL</u>					\$1,203,110.00
WW-12 Manning Road Secondary Plan Area Trunk Sewer ¹						
1.0	Construction					
	450mm SAN trunk Sewer	1,440	m	\$580.00		\$835,200.00
	Sub-Total - Construction					\$835,200.00
2.0	Contingency (@ 15%)					\$125,280.00
3.0	Engineering (@15%)					\$144,100.00
	<u>TOTAL</u>					\$1,104,580.00
WW-13 Manning Road Secondary Plan Area Sanitary Lift Station ¹						
1.0	Construction					
	Lift Station		LS			\$700,000.00
	Sub-Total - Construction					\$700,000.00
2.0	Contingency (@ 15%)					\$105,000.00
3.0	Engineering (@15%)					\$120,800.00
	<u>TOTAL</u>					\$925,800.00
WW-14 Highway Commercial Lands Sanitary Pumping Station						
1.0	Construction					
	Pumping Station		LS			\$750,000.00
	Sub-Total - Construction					\$750,000.00
2.0	Contingency (@ 15%)					\$112,500.00
3.0	Engineering (@15%)					\$129,400.00
	<u>TOTAL</u>					\$991,900.00

WW-15 Maidstone Hamlet Sanitary Pumping Station						
1.0	Construction					
	Pumping Station			LS		\$750,000.00
	Sub-Total - Construction					\$750,000.00
2.0	Contingency (@ 15%)					\$112,500.00
3.0	Engineering (@15%)					\$129,400.00
<u>TOTAL</u>						\$991,900.00
WW-16A County Road 46 Trunk Sanitary Sewer, Phase 1						
1.0	Construction					
	600mm SAN trunk Sewer on CR 46	875	m	\$1,130.00		\$988,750.00
	Sub-Total - Construction					\$988,750.00
2.0	Contingency (@ 15%)					\$148,310.00
3.0	Engineering (@15%)					\$170,600.00
<u>TOTAL</u>						\$1,307,660.00
WW-16B County Road 46 Trunk Sanitary Sewer, Phase 2						
1.0	Construction					
	600mm SAN trunk Sewer on CR 46	375	m	\$1,130.00		\$423,750.00
	450mm SAN trunk Sewer on CR 46	450	m	\$950.00		\$427,500.00
	450mm SAN trunk Sewer in new Development	375	m	\$725.00		\$271,875.00
	Lift Station #3	1	ea	\$420,000.00		\$420,000.00
	Sub-Total - Construction					\$1,543,125.00
2.0	Contingency (@ 15%)					\$231,470.00
3.0	Engineering (@15%)					\$266,200.00
4.0	Property/Easement Acquisition Allowance					\$510,000.00
<u>TOTAL</u>						\$2,550,795.00
WW-17 Blackacre Drive Sanitary Servicing						
1.0	Construction					
	375 mm local SAN on Blackacre Drive	600	m	\$930		\$558,000.00
	Pump Station No. 1				LS	\$470,000.00
	200 mm Forcemain	720	m	\$570		\$410,400.00
	Sub-Total - Construction					\$1,438,400.00
2.0	Contingency (@ 15%)					\$215,760.00
3.0	Engineering (@15%)					\$248,100.00
4.0	Easement Allowance					\$130,000.00
5.0	Property Acquisition Allowance					\$100,000.00
<u>TOTAL</u>						\$2,132,260.00
WW-18A Howard Avenue Sanitary Servicing, Blackacre Drive and Outer Drive to Hwy 3						
1.0	Construction					
	375mm SAN Trunk Sewer on Blackacre Drive	600	m	\$720.00		\$432,000.00
	375mm SAN Trunk Sewer on Outer Drive	795	m	\$720.00		\$572,400.00
	Sub-Total - Construction					\$1,004,400.00
2.0	Contingency (@ 15%)					\$150,660.00
3.0	Engineering (@15%)					\$173,300.00
4.0	Easement Allowance					\$0.00
<u>TOTAL</u>						\$1,328,360.00

WW-18B Howard Avenue Sanitary Servicing, Hwy 3 to MTO Carpool Lot

1.0	Construction				
	Pump Station No. 2 c/w meter chamber		LS		\$425,000.00
	150mm Forcemain	675	m	\$520.00	\$351,000.00
	Extra-over for Highway 3 undercrossing	150	m	\$2,800.00	\$420,000.00
	Sub-Total - Construction				\$1,196,000.00
2.0	Contingency (@ 15%)				\$179,400.00
3.0	Engineering (@15%)				\$206,300.00
4.0	Easement Allowance				\$150,000.00
	<u>TOTAL</u>				\$1,731,700.00