



# AGENDA

## Council -Special Meeting

4:00 PM - Thursday, February 3, 2022  
Hybrid - Council Chambers & Zoom

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<b>1. CALL TO ORDER</b>	
<b>2. DISCLOSURE OF PECUNIARY INTEREST</b>	
<b>3. DELEGATIONS &amp; TIMED EVENTS</b>	
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<b>4. STAFF REPORTS</b>	
4.1. Draft 2022 Budget <a href="#">2022 DRAFT BUDGET PRESENTATION</a> <a href="#">2022 Draft Budget - Detail</a>	126 - 226
<b>5. BY-LAWS</b>	
5.1. By-law # 6 of 2022 - First & Second Reading: Bourne Drain <a href="#">By-law 6 of 2022-Bourne Drain</a>	227 - 228
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5.3. By-law # 8 of 2022 - First & Second Reading: Johnson-Symington Drain <a href="#">By-law 8 of 2022-Johnson-Symington Drain</a>	231 - 232
5.4. By-law # 9 of 2022 - First & Second Reading: Steadman Drain <a href="#">By-law 9 of 2022-Steadman Drain</a>	233 - 234
<b>6. NEW BUSINESS</b>	
<b>7. ADJOURNMENT</b>	



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December 6, 2021

The Mayor and Council  
 Township of Brooke-Alvinston  
 P. O. Box 28  
 3236 River Street  
 Alvinston, Ontario  
 N0N 1A0

Gentlemen;

**Re: Bourne Drain**

In accordance with your instructions, I have undertaken an examination of the Bourne Drain with regards to replacing an existing farm culvert in the E1/2 lot 1, concession 10 in the Municipality of Brooke-Alvinston. It is also the intention to size the other existing culverts to modern standards and include specifications for future replacement under maintenance provisions of the Drainage Act. The course of the work has been surveyed with elevations taken as necessary.

Authorization under the Drainage Act

This is an Engineers Report that has been prepared under Section 78 of the Drainage Act as per the request of an affected owner.

Under section 78 of the Drainage Act, Council may undertake and complete the maintenance or repair of any drainage works constructed under a bylaw passed under this Act or its predecessor. Section 78 is to be used where it is considered expedient to change the course of the drainage works, or to make a new outlet for the whole or any part of the drainage works, or to construct a tile drain under the bed of the whole or any part of the drainage works as ancillary thereto, or to construct, reconstruct or extend embankments, walls, dykes, dams, reservoirs, bridges, pumping stations, or other protective works as ancillary to the drainage works, or to otherwise improve, extend to an outlet or alter the drainage works or to cover the whole or any part of it, or to consolidate two or more drainage works.

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### Description of Existing Drainage

The Bourne Drain consists of an open channel that outlets to the Graham Drain on the east side of Forest Road. The drainage works consists of a channel that extends upstream in an easterly direction to the east side of Little Ireland Road.

The Bourne Drain provides outlet for the Johnson Drain and the Kennedy Drain on the east side of Little Ireland Road.

The Bourne Drain was last improved under an Engineers Report dated August 18, 1971. At this time the open channel was deepened and improved. Farm culverts were replaced along the length of the drainage works except on the E1/2 lot 1, W1/2 lot 5 and the W1/2 lot 6 where the existing concrete structures were underpinned. The access culvert in the W1/2 Lot 5 was replaced under an engineer's report dated December 14, 2010 and the endwalls on the access culvert in the E1/2 Lot 4 were replaced in 2012.

The Schedule of Maintenance was revised under an Engineers Report dated December 4, 2009 and revised at Court of Revision dated April 22, 2010 that was prepared under section 76 of the Drainage Act as a result of property changes and severances within the drainage area.

### Drain Classification

The Bourne Drain is a class "E" drain from Forest Road to Inwood Road and a class "C" drain From Inwood Road to Little Ireland Road. The Graham downstream from Forest Road in the Township of Enniskillen is a class "C" drain.

Type "C" drains have permanent water flow, possess warm water flow, and have a fish community composed of baitfish. Authorized activities in a type C drain include brushing of side slopes, bottom cleanout, debris cleanout, and full cleanout. Specific terms and conditions of a class authorization include vegetation removal allowed on either bank but must be replanted, bends in the channel must be stabilized, specific timing restrictions, sediment control, and work in water only when flows are not elevated.

Generally, work cannot be carried out on a class "C" drain between March 15 and June 30.

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### Onsite Meeting

An onsite meeting was held on May 4, 2020. At the meeting, it was requested that the access culvert in the E1/2 Lot 1, Concession 10 be replaced as it has deteriorated to the stage that large farm equipment can no longer cross. All other access culverts are to be surveyed as to determine condition. Any access culverts in poor shape shall be replaced. The report will contain provisions for replacement of the other access culverts along the length of the drainage works.

### Recommendations

It is therefore recommended that the following work be carried out:

1. The existing farm culvert in the E1/2 Lot 1 shall be replaced.
2. Specifications shall be included for the future replacement of the farm culverts and maintenance of the open channel.

### Design

Access culverts shall be sized to accommodate a 1 in 2 year storm in accordance with engineering principles.

### Estimate of Cost

It is recommended that the work be carried out in accordance with the accompanying Specification of Work and the Profile that form part of this Report. There has been prepared an estimate of cost in the amount of \$49,636.00 including engineering. A Plan has been prepared showing the location of the work and the approximate drainage area.

### Assessment

As per the Drainage Act, section 21, the Engineer in his report shall assess for benefit and outlet liability.

Lands, roads, buildings, utilities, or other structures that are increased in value or are more easily maintained as a result of the construction, improvement, maintenance, or repair of a drainage works may be assessed for benefit. The Engineer may assess for



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special benefit any lands for which special benefits have been provided by the drainage works.

Lands and roads that use a drainage works as an outlet, or for which, when the drainage works is constructed or improved, an improved outlet is provided either directly or indirectly through any medium of any other drainage works or of a swale, ravine, creek or watercourse, may be assessed for outlet. The assessment for outlet shall be based upon volume and rate of flow of the water artificially caused to flow into the drainage works from the lands and roads liable for such assessments.

Assessments may be made against any affected public utility or road authority, as per Section 26 of the Drainage Act, for any increased costs for the removal or relocation of any of its facilities and plant that may be necessitated by construction.

The estimated cost of the drainage works has been assessed with approx. 35% of the cost assessed to the benefiting owner. The remainder of the cost is to be assessed as outlet assessment to upstream properties based on the upstream equivalent hectares.

#### Allowances

Under section 29 of the Drainage Act, the Engineer in his report shall estimate and allow in money to the Owner of any land that it is necessary to use for the construction or improvement of a drainage works or for the disposal of material removed from a drainage works. This shall be considered an allowance for right of way.

Under section 30 of the Drainage Act, the Engineer shall determine the amount to be paid to persons entitled thereto to damage, if any, to ornamental trees, fences, land, and crops occasioned by the disposal of material removed from a drainage works. This shall be considered an allowance for damages.

Allowances have been made in this report under section 30 of the Drainage Act for damages to lands and crops, if applicable, occasioned by the proposed work. Allowances for crop loss along the proposed tile drains are based on one full crop for 1 year and 50% of the crop in the following year. Allowances for crop loss along the open channel are based on one full crop for 1 year. The rate of \$1,000.00 per hectare has been used for 1 year of crop loss. The area affected by construction is based on the working area specified below.

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### Access and Working Area

Access for the culvert work shall be from Petrolia Line using the existing access lanes, along fence lines, and along the length of the drainage works. Access for maintenance of the channel work shall be from the cross roads or from Petrolia Line using the existing access lanes, along fence lines, and along the length of the drainage works. The width of access to the working area shall be restricted to a width of 6 metres

The working area for future maintenance of the open channel be restricted to a width of 15 metres as measured from the top of the bank on the side of the open channel that the equipment is working on. The working area for the installation of access culverts shall be restricted to a width of 20 metres on either side of the culvert and 20 metres from the top of both banks.

### Agricultural Grant

It is recommended that application for subsidy be made for eligible agricultural properties. Any assessments against non agricultural properties are shown separately in the Schedule of Assessment.

### Restrictions

No trees and shrubs shall be planted nor shall permanent structures be erected within 10 metres of either side of the proposed drain without prior written permission of Council.

All existing subsurface drainage shall be connected to the drain is subject to the provisions of section 83 of the Drainage Act under which pollution of drains is prohibited. Attention is also drawn to sections 80 and 82 of the Drainage Act, which refer to the removal of obstructions in a drain and damage caused to a drain.

### Existing Private Drainage

All existing subsurface drainage encountered during excavation of the open channel shall be maintained in existing condition. Owners shall be responsible to mark all subsurface drains from his property. Surface drains and swales shall be left open. The Contractor shall be responsible for damage to subsurface drains marked by the Owners.

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It is recommended that 300 mm of freeboard be provided for tile drain outlets to the open channel. This Report will attempt to provide the recommended freeboard but existing access culvert depths may not allow sufficient grade improvements to provide 300 mm.

### Maintenance

The channel shall be maintained and repaired in accordance with the maintenance provisions contained in this Engineer's Report and the Engineer's Report dated May 13, 1983 and the Profile as shown on the drawings included with this report. The cost of maintenance and repair of the channel shall be assessed as per the Schedule of Maintenance contained in the This report.

The access culverts located along the length of the drain shall be maintained and repaired with 35% of the costs assessed to the benefitting property and the remainder of the costs shall be assessed to upstream properties pro rata with the equivalent hectares contained in the Schedule of Maintenance.

Road culverts are to be maintained and repaired or replaced at the expense of the Road Authority as per section 26 of the Drainage Act. Any extra cost as a result of the location of any public utility shall be assessed to that public utility.

If an owner requests an additional length of culvert beyond that specified in this report, the extra cost shall be borne by the owner making the request including the future maintenance and repair. Each property is allowed one access culvert for each municipal drain with any second culvert on the property maintained and repaired 100% by the owner.

These above conditions will apply unless otherwise altered under provisions of the Drainage Act:

All of the above is submitted for your consideration.

Yours truly,



Ray Dobbin, P.Eng.



Bourne Drain  
Municipality of Brooke Alvinston  
December 6, 2021

### ALLOWANCES

Allowances have been made as per section 30 of the Drainage Act for damages to lands and crops.

Conc.	Lot or pt. Lot	Roll No.	Owner	Section 30
10	E1/2 L1	40-004		<u>1,318.00</u>
Total Allowances				\$1,318.00

Bourne Drain  
Municipality of Brooke Alvinston  
December 6, 2021

### Estimate of Cost

Replace Access Culvert in the E1/2 Lot 1, Concession 10

Allowances:					1,318.00
	<u>Quantity</u>	<u>Unit</u>	<u>Material</u>	<u>Labour</u>	
Culvert No. 1 (E1/2 L1)					
R. & D. of Existing Culvert		LS		620.00	
S. & I. 3650 mm x 2280 mm CSPA	10.0	m	20,900.00	930.00	
S. & I. bedding material	37.0	tonne	744.00	160.00	
S. & I. Granular "B"/Backfill	80.0	tonne	1,520.00	620.00	
S. & I. Granular "A"	35.0	tonne	880.00	160.00	
S. & I. block endwalls	44.0	each	4,400.00	1,240.00	
			28,444.00	3,730.00	32,174.00
Silt Fence	1	each	265.00		265.00
Miscellaneous					<u>1,610.00</u>
			Sub Total		35,367.00
			Engineering		12,849.00
			Inspection		1,020.00
			SCRCA Fee		<u>400.00</u>
			Total Estimate		\$49,636.00

# SCHEDULE OF ASSESSMENT

To remove and replace the access culvert in the E1/2 Lot 1, concession 10.

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	equiv. ha
Agricultural Land								
9	N1/2 L15	1.62	30-172	D. & S. McGugan		45.00	45.00	1.62
10	W1/2 L1	30.40	40-003	D. & G. Gilroy			0.00	30.40
	E1/2 L1	30.40	40-004	J. & C. Sawyer	15,488.00	844.00	16,332.00	30.40
	W1/2 L2	30.40	40-005	D. & G. Gilroy	210.00	844.00	1,054.00	30.40
	E1/2 L2	30.40	40-006	R. Melton	210.00	844.00	1,054.00	30.40
	W1/2 L3	30.40	40-007	T. Campbell	210.00	844.00	1,054.00	30.40
	E1/2 L3	32.48	40-008	K. & S. Campbell		902.00	902.00	32.48
	W1/2 L4	34.40	40-009	T. Campbell		955.00	955.00	34.40
	E1/2 L4	34.40	40-011	K. & J. McEwen	210.00	955.00	1,165.00	34.40
	W1/2 L5	28.30	40-012	Art Griffith Farms Inc.	210.00	786.00	996.00	28.30
	E1/2 L5	28.30	40-013	J. Campbell	210.00	786.00	996.00	28.30
	L6	56.60	40-014	S. Tomlinson	210.00	1,571.00	1,781.00	56.60
	W1/2 L7	28.30	40-016	S. Edgar		786.00	786.00	28.30
	E1/2 L7	28.30	40-017	R. Edgar	210.00	786.00	996.00	28.30
	W1/2 L8	28.30	40-018	R. Edgar	210.00	786.00	996.00	28.30
	E1/2 L8	24.30	40-019	Art Griffith Farms Inc.	210.00	675.00	885.00	24.30

## Schedule of Assessment (cont'd)

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Agricultural Land (cont'd)							
10	N1/2 L9	38.50	40-020	RLC Farms		1,069.00	38.50
	NW1/4 L10	19.66	40-023	1432234 Ontario Limited		546.00	19.66
	NE1/4 L10	19.34	40-024	K. McGugan		537.00	19.34
	NWpt. L11	16.58	40-022	B. & D. Watson		490.00	16.58
	S1/2 L10 & SWpt. L11	29.56	40-02201	R. Podolinsky		821.00	29.56
	E3/5 L11	48.60	40-025	F. & M. Van Den Ouweland		1,349.00	48.60
	NW1/2 L12	19.85	40-026	K. Podolinsky		551.00	19.85
	NE1/2 L12	19.74	40-027	B. Podolinsky		548.00	19.74
	S1/2 L12	3.65	40-028	1152513 Ontario Ltd.		101.00	3.65
	Wpt. & Spt. L13	31.18	40-030	S. MacRae		866.00	31.18
	Nept. L13	20.09	40-031	Sawyer Family Farms Ltd.		558.00	20.09
	W1/2 L14	38.47	40-032	D. MacRae		1,068.00	38.47
	E1/2 L14	38.47	40-033	S & J. MacRae		1,068.00	38.47
	N1/2 L15	38.47	40-034	Griffith Seeds Inc.		1,068.00	38.47
	S1/2 L15	40.50	40-03401	J. & C. Griffith		1,124.00	40.50
	S1/2 L16	2.02	50-002	W. & T. Douglas		56.00	2.02
11	SE1/4 L12	7.45	40-064	G. Sportel		207.00	7.45
	S3/4 L13	49.81	40-067	E. & J. Foster		1,383.00	49.81
	W1/2 L14	40.50	40-068	Shea Farms Ltd.		1,124.00	40.50
	E1/2 L14	40.50	40-069	Shea Farms Ltd.		1,124.00	40.50
	L15	46.17	40-071	T. J. Straatman Enterprises Limited		1,282.00	46.17
	L16	1.60	50-033	D. & G. Ferguson		44.00	1.60

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## Schedule of Assessment (cont'd)

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Agricultural Land (cont'd)							
12	W1/2 L14	10.12	40-097	J. & S. Manders		281.00	281.00
	E1/2 L14	4.05	40-098	P. & T. Minten		112.00	112.00
Total Benefit					17,588.00	29,786.00	47,374.00
Total Outlet					29,786.00		
Total - Agricultural					47,374.00		
Non Agricultural Lands							
10	pt.NW1/4 L10	0.54	40-02301	D. McIlmoyle-Duncan		26.00	26.00
	pt.NE1/4 L10	0.76	40-02401	C. Vegso & L. Smith		32.00	32.00
	pt.NW1/4 L12	0.40	40-02601	J. & T. Douglas		22.00	22.00
	pt.NE1/4 L12	0.51	40-02701	J. Phillips		25.00	25.00
	pt.N1/2 L15	0.73	40-03405	J. Annett		31.00	31.00
11	pt.SW1/4 L12	0.66	40-06403	W. & K. App		29.00	29.00
	pt.SW1/4 L12	0.45	40-06402	C. & B. Andrews		24.00	24.00
	pt.S3/4 L13	0.81	40-06701	A. Foster		34.00	34.00
	pt.E1/2 L14	0.79	40-06904	S. & J. Johnston		33.00	33.00
	pt. L15	0.40	40-070	M. & C. Abra		22.00	22.00
	pt. L16	0.42	50-03303	D. & G. Ferguson		23.00	23.00
Total Benefit					0.00	301.00	301.00
Total Outlet					301.00		
Total - Agricultural					301.00		



Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Public Lands: Roads							
Petrolia Line		5.49		County of Lambton		610.00	21.96
Inwood Road		2.02		County of Lambton	210.00	224.00	9.48
Sutorville Road		1.72		Municipality of Brook Alvinston		143.00	5.16
Little Ireland Road		1.35		Municipality of Brook Alvinston	210.00	112.00	4.05
Ebenezer Road		3.00		Municipality of Brook Alvinston		250.00	9.00
Old Walnut Road		2.43		Municipality of Brook Alvinston		202.00	7.29
Total Benefit					420.00	1,541.00	1,961.00
Total Outlet					1,541.00		1,169.99
Total - Public Lands: Roads					1,961.00		
Total - Non Agricultural					301.00		
Total - Agricultural					47,374.00		
<b>Total Assessment</b>					<b>\$49,636.00</b>		

# SCHEDULE OF MAINTENANCE

To maintain and repair the Bourne Drain (based on Schedule of Maintenance dated April 22, 2010).

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	equiv. ha
Agricultural Land								
9	N1/2 L15	1.62	30-172	D. & S. McGugan		8.10	8.10	1.62
10	W1/2 L1	30.40	40-003	D. & G. Gilroy	531.00	9.10	540.10	30.40
	E1/2 L1	30.40	40-004	J. & C. Sawyer	531.00	16.10	547.10	30.40
	W1/2 L2	30.40	40-005	D & G Gilroy	531.00	27.95	558.95	30.40
	E1/2 L2	30.40	40-006	R. Melton	531.00	35.85	566.85	30.40
	W1/2 L3	30.40	40-007	T. Campbell	531.00	47.00	578.00	30.40
	E1/2 L3	32.48	40-008	K. & S. Campbell	531.00	59.85	590.85	32.48
	W1/2 L4	34.40	40-009	T. Campbell	531.00	69.15	600.15	34.40
	E1/2 L4	34.40	40-011	K. & J. McEwen	531.00	63.95	594.95	34.40
	W1/2 L5	28.30	40-012	Art Griffith Farms Inc.	531.00	71.05	602.05	28.30
	E1/2 L5	28.30	40-013	J. Campbell	531.00	78.95	609.95	28.30
	L6	56.60	40-014	S. Tomlinson	1,062.00	86.90	1,148.90	56.60
	W1/2 L7	28.30	40-016	S. Edgar	531.00	95.10	626.10	28.30
	E1/2 L7	28.30	40-017	R. Edgar	531.00	101.05	632.05	28.30
	W1/2 L8	28.30	40-018	R. Edgar	531.00	110.95	641.95	28.30
	E1/2 L8	24.30	40-019	Art Griffith Farms Inc.	531.00	101.10	632.10	24.30

## Schedule of Maintenance (cont'd)

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Agricultural Land (cont'd)							
10	N1/2 L9	38.50	40-020	RLC Farms	1,062.00	170.15	1,232.15
	NW1/4 L10	19.66	40-023	1432234 Ontario Limited		97.00	97.00
	NE1/4 L10	19.34	40-024	K. McGugan		95.00	95.00
	NWpt. L11	16.58	40-022	B. & D. Watson		81.00	16.58
	S1/2 L10 & SWpt. L11	29.56	40-02201	R. Podolinsky		147.80	29.56
	E3/5 L11	48.60	40-025	F & M Van Den Ouweland		243.00	48.60
	NW1/2 L12	19.85	40-026	K. Podolinsky		99.25	19.85
	NE1/2 L12	19.74	40-027	B. Podolinsky		98.70	19.74
	S1/2 L12	3.65	40-028	1152513 Ontario Ltd.		18.25	3.65
	Wpt. & Spt. L13	31.18	40-030	S. MacRae		155.90	31.18
	Nept. L13	20.09	40-031	Sawyer Family Farms Ltd.		81.00	20.09
	W1/2 L14	38.47	40-032	D. Mac Rae		192.35	38.47
	E1/2 L14	38.47	40-033	S & J. MacRae		192.35	38.47
	N1/2 L15	38.47	40-034	Griffith Seeds Inc.		192.35	38.47
	S1/2 L15	40.50	40-03401	J. & C. Griffith		202.50	40.50
	S1/2 L16	2.02	50-002	W & T Douglas		10.10	2.02
11	SE1/4 L12	7.45	40-064	G. T. Sportel		37.25	7.45
	S3/4 L13	49.81	40-067	E. & J. Foster		249.05	49.81
	W1/2 L14	40.50	40-068	Shea Farms Ltd.		202.50	40.50
	E1/2 L14	40.50	40-069	Shea Farms Ltd.		202.50	40.50
	L15	46.17	40-071	T. J. Straatman Enterprises Limited		230.85	46.17
	L16	1.60	50-033	D & G Ferguson		8.00	1.60

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## Schedule of Maintenance (cont'd)

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Agricultural Land (cont'd)							
12	W1/2 L14	10.12	40-097	J. & S. Manders		50.60	50.60
	E1/2 L14	4.05	40-098	P. & T. Minten		20.25	20.25
Total Benefit					9,558.00	4,059.85	13,617.85
Total Outlet					4,059.85		
Total - Agricultural					13,617.85		
Non Agricultural Lands							
10	pt.NW1/4 L10	0.54	40-02301	D. McIlmoyle-Duncan		9.40	9.40
	pt.NE1/4 L10	0.76	40-02401	C. Vegso / L Smith		11.60	11.60
	pt.NW1/4 L12	0.40	40-02601	J. & T. Douglas		8.00	8.00
	pt.NE1/4 L12	0.51	40-02701	J. Phillips		9.10	9.10
	pt.N1/2 L15	0.73	40-03405	J. Annett		11.30	11.30
11	pt.SW1/4 L12	0.66	40-06403	W. & K. App		10.60	10.60
	pt.SW1/4 L12	0.45	40-06402	C. & B. Andrews		8.50	8.50
	pt.S3/4 L13	0.81	40-06701	A. Foster		12.10	12.10
	pt.E1/2 L14	0.79	40-06904	S. & J. Johnston		11.90	11.90
	pt. L15	0.40	40-070	M. & C. Abra		8.00	8.00
	pt. L16	0.42	50-03303	D. & G. Ferguson		8.20	8.20
Total Benefit					0.00	108.70	108.70
Total Outlet					108.70		
Total - Agricultural					108.70		

Schedule of Maintenance (cont'd)

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Public Lands: Roads							
Petrolia Line		5.49		County of Lambton		109.80	109.80
Inwood Road		2.02		County of Lambton	218.00	15.15	233.15
Sutorville Road		1.72		Municipality of Brook Alvinston	218.00	25.80	243.80
Little Ireland Road		1.35		Municipality of Brook Alvinston	218.00	20.25	238.25
Ebenezer Road		3.00		Municipality of Brook Alvinston		45.00	45.00
Old Walnut Road		2.43		Municipality of Brook Alvinston		36.45	36.45
Total Benefit					654.00	252.45	906.45
Total Outlet					252.45		
Total - Public Lands: Roads					906.45		
Total - Non Agricultural					108.70		
Total - Agricultural					13,617.85		
<b>Total Assessment</b>					<b>\$14,633.00</b>		

Bourne Drain  
Municipality of Brooke-Alvinston  
December 6, 2021

## **SPECIFICATION OF WORK**

### **1. Scope of Work**

The work to be included in this specification includes the replacement of the farm culvert in the E1/2 Lot 1 and W1/2 Lot 2, concession 10 and the future repair and replacement of farm culverts as required on the Bourne Drain in lots 1 to 9, concessions 10, in the Municipality of Brooke-Alvinston.

### **2. General**

Each tenderer must inspect the site prior to submitting his tender and satisfy himself by personal examination as to the local conditions that may be encountered during this project. He shall make allowance in his tender for any difficulties which he may encounter. Quantities or any information supplied by the Engineer is not guaranteed and is for reference only.

All work and materials shall be to the satisfaction of the Drainage Superintendent who may vary these specifications as to minor details but in no way decrease the proposed capacity of the drain.

The Contractor shall be responsible for the notification of all utilities and pipeline companies prior to the start of construction.

### **3. Plans and Specifications**

These specifications shall apply and be part of the contract along with the General Specifications for Closed Drains and the General Specifications for Open Drains. This specification of work shall take precedence over all plans and general conditions pertaining to the contract. The Contractor shall provide all labour, equipment, and supervision necessary to complete the work as shown in the plans and described in these specifications. Any work not described in these specifications shall be completed according to the Ontario Provincial Standard Specifications and Standard Drawings.

Any reference to the owner contained in these contract documents shall refer to the Municipality of Brooke-Alvinston or the engineer authorized by the Municipality to act on its behalf.

-2-

#### **4. Excavation and Levelling (future maintenance)**

The open channel shall be excavated to the depths and grades as shown on the drawings enclosed with this report and as per the specifications in this report and those found in the in the Engineers Report dated May 13, 1983. The bottom shall be maintained with side slopes to be left as undisturbed as possible. Laser shall be used to guarantee an even grade.

The excavated material shall be placed on private lands adjacent to the drain at least 1.5 metres clear of the top of the bank. All low runs and swales outletting surface water to the open channel shall not be filled in during levelling operations. The excavated material shall be placed on one side of the drain or the other, generally on the same side as previously placed. The owner may direct that the excavated material be placed on the side opposite as long as it is the same side across the entire property. In any event the excavated material shall be placed on the side opposite bush areas and fences wherever possible.

The excavated material shall be levelled to a maximum depth of 150 mm and shall be left in a condition suitable for cultivation. All large branches and pieces of wood are not to be buried but shall be picked up by the Contractor and burned. Excavated material shall not be placed in surface water runs or swales. If an owner wishes to truck the excavated material offsite or elsewhere on his property, he may do so under this report with the cost of trucking less levelling being assessed to that property.

#### **5. Brushing (future maintenance)**

All brush and trees along the existing open channel shall be close cut from both sideslopes and within 1.5 metres of the top of the bank. The Drainage Superintendent may designate certain trees to be left for slope stability. Trees and brush shall be piled in piles spaced approx. 150 metres apart or at property lines and shall be burned onsite subject to local bylaws and guidelines of the Ministry of the Environment. Brush may be removed by first grinding with excavator mounted equipment

It is recommended that tree stumps and brush too small to be cut be sprayed with Estaprop, Roundup, Fencerow or approved equal. Spray shall be applied as soon as possible after cutting and shall be applied in the same day as the trees have been cut. It is recommended that appropriate spray be applied to the stumps, brush, and aftergrowth in late spring/early summer for two years following to maintain control. A properly licensed operator shall apply spray.

-3-

## **6. Installation of Access Culverts**

The existing access culverts were constructed under an Engineers Report dated August 18, 1971 except for those in the E1/2 lot 1, W1/2 lot 5 and the W1/2 lot 6. These culverts are concrete structures and were underpinned at the time due to the deepening of the channel.

The farm culvert in the W1/2 lot 1 shall be removed under this report. The existing concrete structure shall be removed and the sideslopes shall be resloped to match the existing sideslopes. All broken concrete and material removed shall be disposed offsite by the Contractor.

The Contractor shall supply, install, and backfill an aluminized corrugated steel pipe arch with a length of 10 metres, span of 3650 mm, rise of 2280 mm, 152 mm x 51 mm corrugations and a minimum wall thickness of 3.0 mm in the E1/2 Lot 1, Concession 10 in the same general location as the existing access culvert.

All culverts replaced in the future shall be 10 metres long with 152 mm x 51 mm corrugations and minimum wall thickness of 3.0 mm.

The culvert shall be installed with the invert 100 mm below the original channel bottom and at the original grade as designed under the Engineers Report dated August 18, 1971. The minimum travel width shall be 10 metres.

The bottom of the excavation shall be excavated to the proposed grade with any overexcavation backfilled with granular material or drainage stone. When the pipe has been installed to the proper grade and depth, the excavation shall be backfilled with granular or drainage stone from the bottom of the excavation to the springline of the pipe. The pipe shall be backfilled from the springline to within 150 mm of finished grade with approved excavated material. Granular "B" material shall be used as backfill behind the block endwall as shown on the drawings

All backfill shall be free from deleterious material. All granular material shall be mechanically compacted to 95% modified standard proctor density. All backfill material above the springline shall be compacted using the tracks and bucket of the equipment carrying out the backfill operation. There is additional backfill material available from the existing spoil banks along the existing channel.



-4-

End protection shall consist of concrete blocks with dimensions of approx. 600 mm x 600 mm x 1200 mm, 600 mm x 600 mm x 2400 mm or 300 mm x 600 mm x 1200 mm as required. The top of the third row shall be set with the top of the row equal to the top of the culvert. The blocks shall be set at each end of the culvert so that each row of blocks will be offset approx. 100 mm from the row below. The bottom row shall consist of one block placed parallel to the culvert. The second row shall consist of one block and the third row shall consist of two blocks. The fourth row shall consist of a row of eight 600 mm high blocks over the culvert. The blocks shall be placed over a layer of filter fabric (Terrafix 250R or approved equal). The culvert shall be backfilled in conjunction with the placement of the blocks. The gaps between the culvert and the blocks shall be filled with concrete cinder blocks and mortar to give the endwall a finished appearance.

The existing farm culverts have been identified along the length of the drainage works. They are listed with the recommended sizing to be used when replacement is necessary.

#### CULVERTS TO BE REPLACED UNDER THIS REPORT

Culvert no. 1 - E1/2 Lot 1 (roll no. 40-004) consists of poured concrete structure with footings and a width of approx. 4.2 metres. The structure was underpinned under the August 18, 1971 engineer's report. It is now in poor shape. The pipe is to be replaced under this report with 10 metres of 3650 mm x 2280 mm corrugated steel pipe arch with concrete block endwalls.

#### CULVERTS TO BE REPLACED IN THE FUTURE

Pipe No. 2 – W1/2 Lot 2 (roll no. 40-005) consists of 6 metres of 3683 mm x 2311 mm corrugated steel pipe arch. The pipe is in poor condition with poured concrete endwalls. The pipe is to be replaced under this report with 10 metres of 3650 mm x 2280 mm corrugated steel pipe arch with concrete block endwalls.

Pipe No. 3 – E1/2 Lot 2 (roll no. 40-006) consists of approximately 6 metres of 3683 mm x 2311 mm diameter corrugated steel pipe arch with poured concrete endwalls. The pipe is in fair condition. The pipe is to be replaced in the future with 10 metres of 3650 mm x 2280 mm diameter corrugated steel pipe arch with concrete block endwalls.

Pipe No. 4 – W1/2 Lot 3 (roll no. 40-007) consists of approximately 6 metres of 3683 mm x 2311 mm diameter corrugated steel pipe arch with poured concrete endwalls. The structure is in fair condition. The pipe is to be replaced in the future with 10 metres of 3650 mm x 2280 mm diameter corrugated steel pipe arch with concrete block endwalls.

-5-

Pipe No. 6 – E1/2 Lot 4 (roll no. 40-011) consists of approximately 6 metres of 3683 mm x 2311 mm diameter corrugated steel pipe arch with poured concrete endwalls. The structure is in fair condition. The pipe is to be replaced in the future with 10 metres of 3650 mm x 2280 mm diameter corrugated steel pipe arch with concrete block endwalls.

Pipe No. 7 – W1/2 Lot 5 (roll no. 40-012) consists of approximately 10 metres of 3400 mm x 2010 mm diameter corrugated steel pipe arch. The structure is in good condition. The pipe is to be replaced in the future with 10 metres of 3300 mm x 2080 mm corrugated steel pipe arch concrete block endwalls (this is the current equivalent size).

Pipe No. 8 – E1/2 Lot 5 (roll no. 40-013) consists of approximately 6 metres of 3327 mm x 2108 mm diameter corrugated steel pipe arch with poured concrete endwalls. The structure is in fair condition. The pipe is to be replaced in the future with 10 metres of 3300 mm x 2080 mm corrugated steel pipe arch concrete block endwalls.

Pipe No. 9 – W1/2 Lot 6 (roll no. 40-014) consists of approximately 6 metres of 3327 mm x 2108 mm diameter corrugated steel pipe arch. The structure is in fair condition. The pipe is to be replaced in the future with 10 metres of 3300 mm x 2080 mm corrugated steel pipe arch concrete block endwalls.

Pipe No. 11 – E1/2 Lot 7 (roll no. 40-017) consists of approximately 6 metres of 3037 mm x 2032 mm diameter corrugated steel pipe arch. The structure is in fair condition. The pipe is to be replaced in the future with 10 metres of 3300 mm x 2080 mm corrugated steel pipe arch concrete block endwalls (this is the current equivalent size).

Pipe No. 12 – W1/2 Lot 8 (roll no. 40-018) consists of approximately 6 metres of 3037 mm x 2032 mm diameter corrugated steel pipe arch with poured concrete endwalls. The structure is in fair condition. The pipe is to be replaced in the future with 10 metres of 3300 mm x 2080 mm corrugated steel pipe arch concrete block endwalls.

Pipe No. 13 – E1/2 Lot 8 (roll no. 40-019) consists of approximately 6 metres of 3037 mm x 2032 mm diameter corrugated steel pipe arch. The structure is in fair condition. The pipe is to be replaced in the future with 10 metres of 3300 mm x 2080 mm corrugated steel pipe arch concrete block endwalls.

-6-

## **7. Installation of Road Culverts**

The Contractor shall supply, install, and backfill an aluminized corrugated steel pipe arch with a length of 22.8 metres under Inwood Road and 18 metres under Sutorville Road and Little Ireland Road, 152 mm x 51 mm corrugations and a minimum wall thickness of 3.0 mm.

The culvert shall be installed with the invert 10% mm below the original channel bottom and at the original grade as designed under the Engineers Report dated August 18, 1971. The minimum travel width shall be 10 metres.

The bottom of the excavation shall be excavated to the proposed grade with any over excavation backfilled with granular material or drainage stone. When the pipe has been installed to the proper grade and depth, the excavation shall be backfilled with granular or drainage stone from the bottom of the excavation to the springline of the pipe. The pipe shall be backfilled from the springline with granular type 1 granular "B: material.

All granular material shall be mechanically compacted to 95% modified standard proctor density.

End protection shall consist of concrete blocks with dimensions of approx. 600 mm x 600 mm x 1200 mm, 600 mm x 600 mm x 2400 mm or 300 mm x 600 mm x 1200 mm as required. The top of the third row shall be set with the top of the row equal to the top of the culvert. The blocks shall be set at each end of the culvert so that each row of blocks will be offset approx. 100 mm from the row below. The bottom row shall consist of one block placed parallel to the culvert. The second row shall consist of one block and the third row shall consist of two blocks. The fourth row shall consist of a row of eight 600 mm high blocks over the culvert. The blocks shall be placed over a layer of filter fabric (Terrafix 250R or approved equal). The culvert shall be backfilled in conjunction with the placement of the blocks. The gaps between the culvert and the blocks shall be filled with concrete cinder blocks and mortar to give the endwall a finished appearance.

The existing road culverts have been identified along the length of the drainage works. They are listed with the recommended sizing to be used when replacement is necessary.

Pipe No. 5 – Inwood Road consists of approximately 22.8 metres of 4370 mm x 2870 mm diameter corrugated steel pipe arch. The structure is in fair condition. The pipe is to be replaced in the future with 22.8 metres of 4370 mm x 2870 mm corrugated steel pipe arch.

-7-

Pipe No. 10 – Sutorville Road consists of approximately 18 metres of 3890 mm x 2690 mm diameter corrugated steel pipe arch. The structure is in good condition as it was recently replaced. The pipe is to be replaced in the future with 18 metres of 3890 mm x 2690 mm corrugated steel pipe arch.

Pipe No. 14 – Little Ireland Road consists of approximately 18 metres of 3300 mm x 2080 mm diameter corrugated steel pipe arch. The structure is in poor condition. The pipe is to be replaced in the future with 18 metres of 3300 mm x 2080 mm corrugated steel pipe arch.

Road culverts under Forest Road, Inwood Road and Sutorville Road shall be replaced at the expense of the Road Authority. The Road Authority shall confirm the size and specifications for road culverts at the time of construction.

#### **8. Clean Existing Culverts (future maintenance)**

The existing access culverts to remain shall be cleared of all sediment and debris. The material shall be spread on the adjacent agricultural lands or disposed offsite if in a lawn area.

#### **9. Subsurface Drainage**

The Owner shall be responsible to mark all existing subsurface drain tile and all tile mains. The Contractor shall be responsible to repair all marked tile that are damaged during excavation of the open channel.

The Owner is responsible for the outlet of surface water from the adjacent field to the open channel. Where a washout has occurred erosion protection consisting of rip rap and filter fabric shall be placed at the expense of the Owner.

#### **10. Environmental Considerations**

The Contractor shall take care to adhere to the following considerations.

- All excavated and stockpiled material shall be placed a minimum of 1.5 metres from the top of the bank. Material shall not be placed in surface water runs or open inlets that enter the channel.

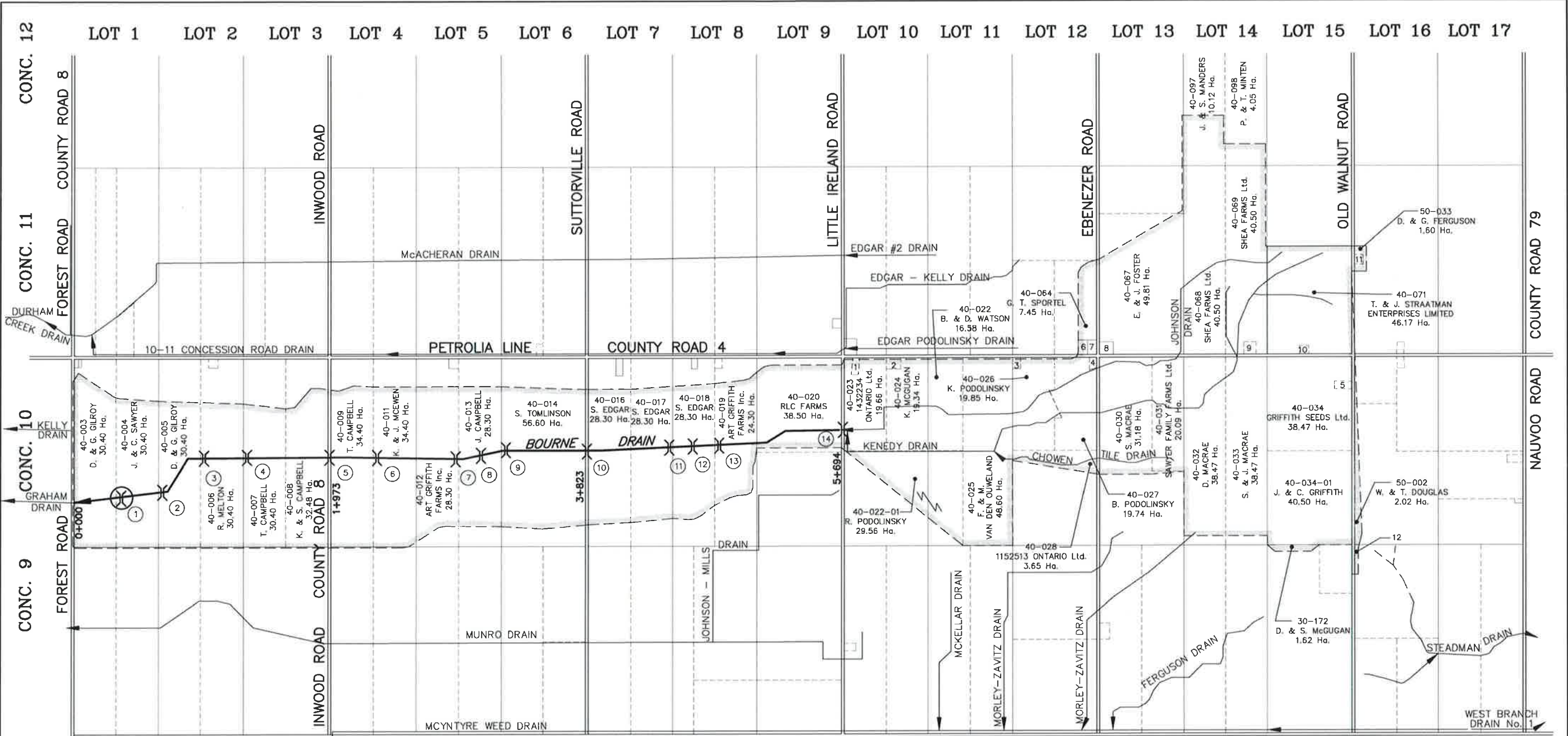
-8-

- All granular and erosion control materials shall be stockpiled a minimum of 3.0 metres from the top of the bank. Material shall not be placed in surface water runs or open inlets that enter the channel.
- All activities, including maintenance procedures, shall be controlled to prevent the entry of petroleum products, debris, rubble, concrete, or other deleterious substances into the water. Vehicle and equipment refuelling and maintenance shall be conducted away from the channel, any surface water runs, or open inlets. All waste materials shall be stockpiled well back from the top of the bank and all surface water runs and open inlets that enter the drain.
- All construction in the channel shall be carried out during periods of low flow.

#### **11. Miscellaneous**

The Contractor shall remove any cross fences necessary to carry out construction operations. Upon completion of the work, the fences shall be reconstructed using existing materials.

The Owner of each property shall be responsible to mark all of his tile outlets. The Owner shall repair any tile outlets that are not marked and are damaged during construction. The Contractor shall repair any tile outlets that are marked and damaged during construction.



LEGEND

- (X) EXISTING CULVERT
- (X) EXISTING CULVERT TO BE REPLACED
- (7) CULVERT LOCATION
- DRAINAGE AREA
- BOURNE DRAIN
- MUNICIPAL DRAIN

OWNER INDEX NUMBER

- 1. 40-023-01 D. McILMOYLE-DUNCAN 0.54 Ha.
- 2. 40-024-01 C. VESGO & L. SMITH 0.76 Ha.
- 3. 40-026-01 J. & T. DOUGLAS 0.40 Ha.
- 4. 40-027-01 J. PHILLIPS 0.51 Ha.
- 5. 40-034-05 J. ANNETT 0.73 Ha.
- 6. 40-064-03 W. & K. APP 0.66 Ha.
- 7. 40-064-02 C. & B. ANDREWS 0.45 Ha.
- 8. 40-067-01 A. FOSTER 0.81 Ha.
- 9. 40-069-04 S. & J. JOHNSTON 0.79 Ha.
- 10. 40-070 M. & C. ABRA 0.40 Ha.
- 11. 50-033-03 D. & G. FERGUSON 0.42 Ha.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Plan

PROJECT No.  
2019-1056

APPROVED	NO.	REVISIONS	DATE	BY
R. DOBBIN				
CHECKED	1	FINAL REPORT	DEC. 6, 2021	CS
D. MOORES				
DRAWN				
C. SAUNDERS				



MUNICIPALITY of BROOKE-ALVINSTON

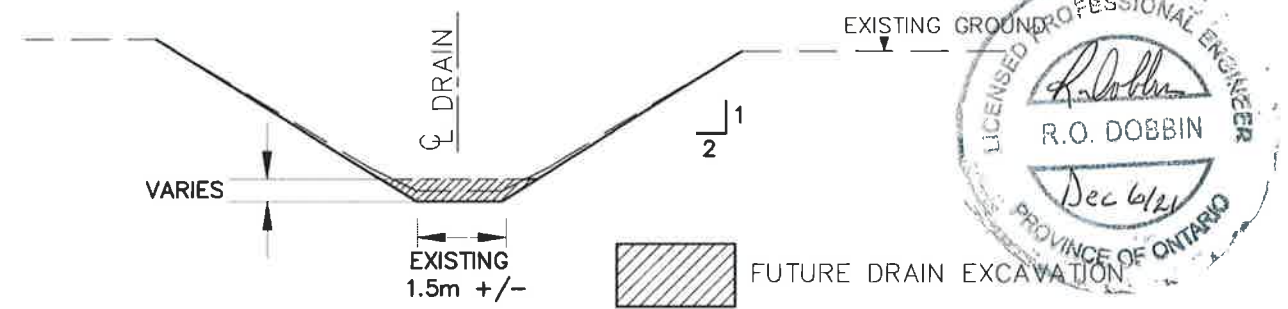
BOURNE DRAIN  
PLAN

1  
OF 11

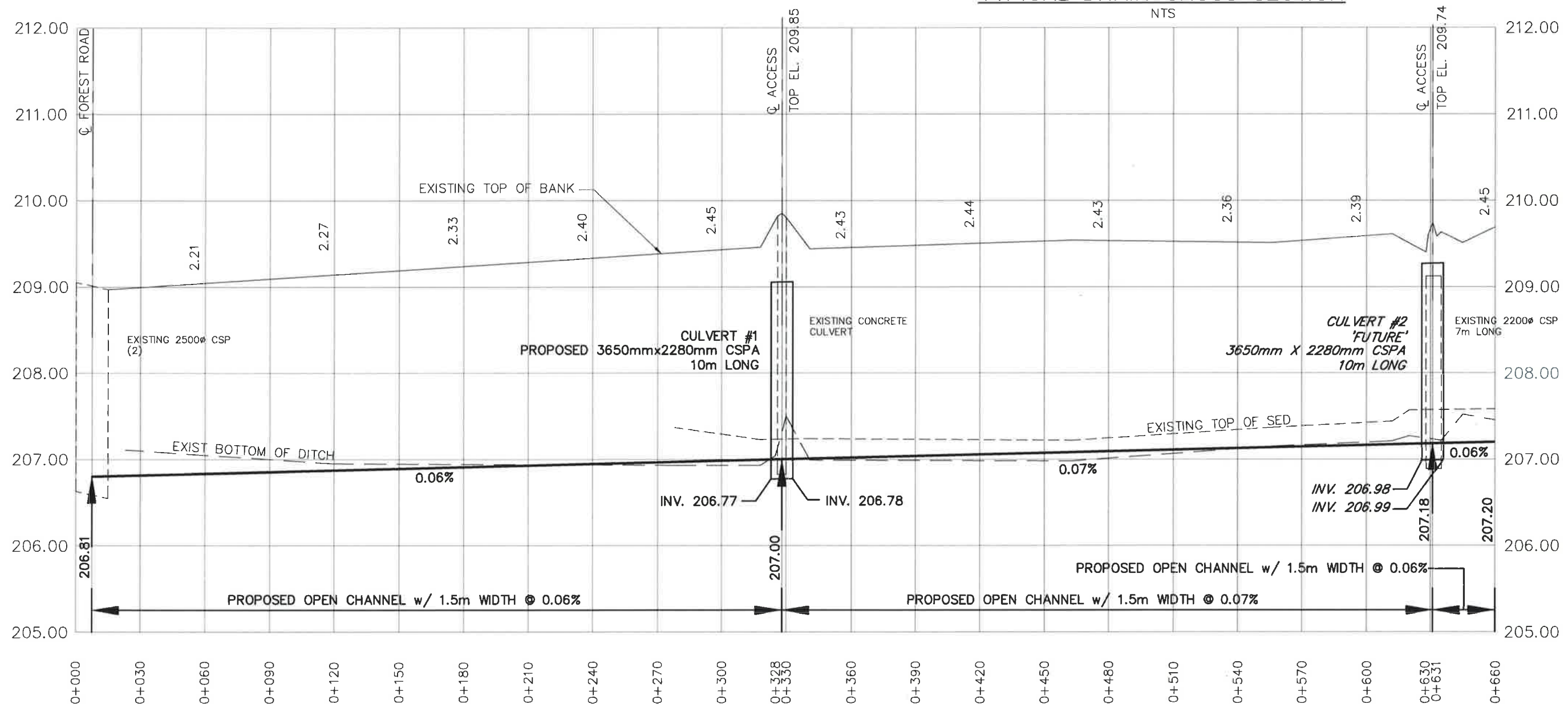


1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD
2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD
3. BENCHMARK No.3 ELEV. 209.12  
TOP WEST END OF EXISTING 2200 CSP  
CULVERT #2

4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



NTS



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 1

PROJECT No.  
2019-1056

APPROVED  
R. DOBBIN

CHECKED  
D. MOORES

DRAWN  
C. SAUNDERS

NO.	REVISIONS	DATE	BY
1	FINAL REPORT	DEC. 6, 2021	CS

SCALE: 1: 2,000

0      20      40      60m

# MUNICIPALITY of BROOKE - ALVINSTON

## BOURNE DRAIN PROFILE

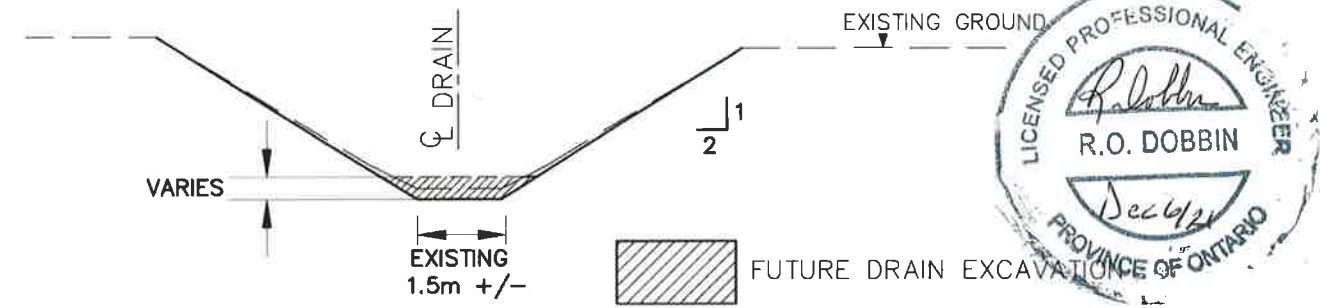
2  
OF 11

GENERAL NOTES

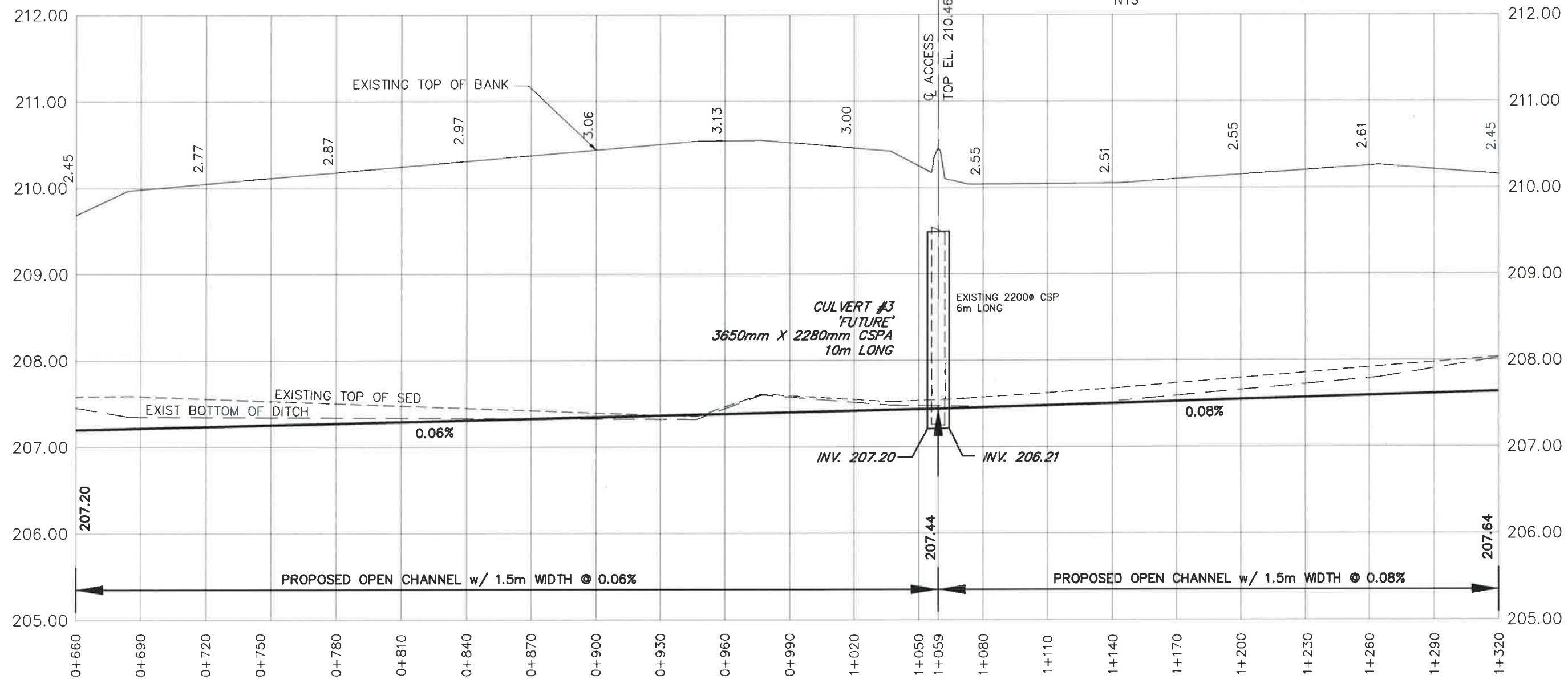
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TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD


2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD

3. BENCHMARK No.4 ELEV. 209.54  
TOP WEST END OF EXISTING 2200 CSP  
CULVERT #3
4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



TYPICAL DRAIN CROSS SECTION





4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 2

PROJECT No.  
2019-1056

APPROVED  
R. DOBBIN

CHECKED  
D. MOORES

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C. SAUNDERS

NO.	REVISIONS	DATE	BY
1	FINAL REPORT	DEC. 6, 2021	CS

SCALE: 1:2,000  
0 20 40 60m

MUNICIPALITY of BROOKE - ALVINSTON

BOURNE DRAIN  
PROFILE

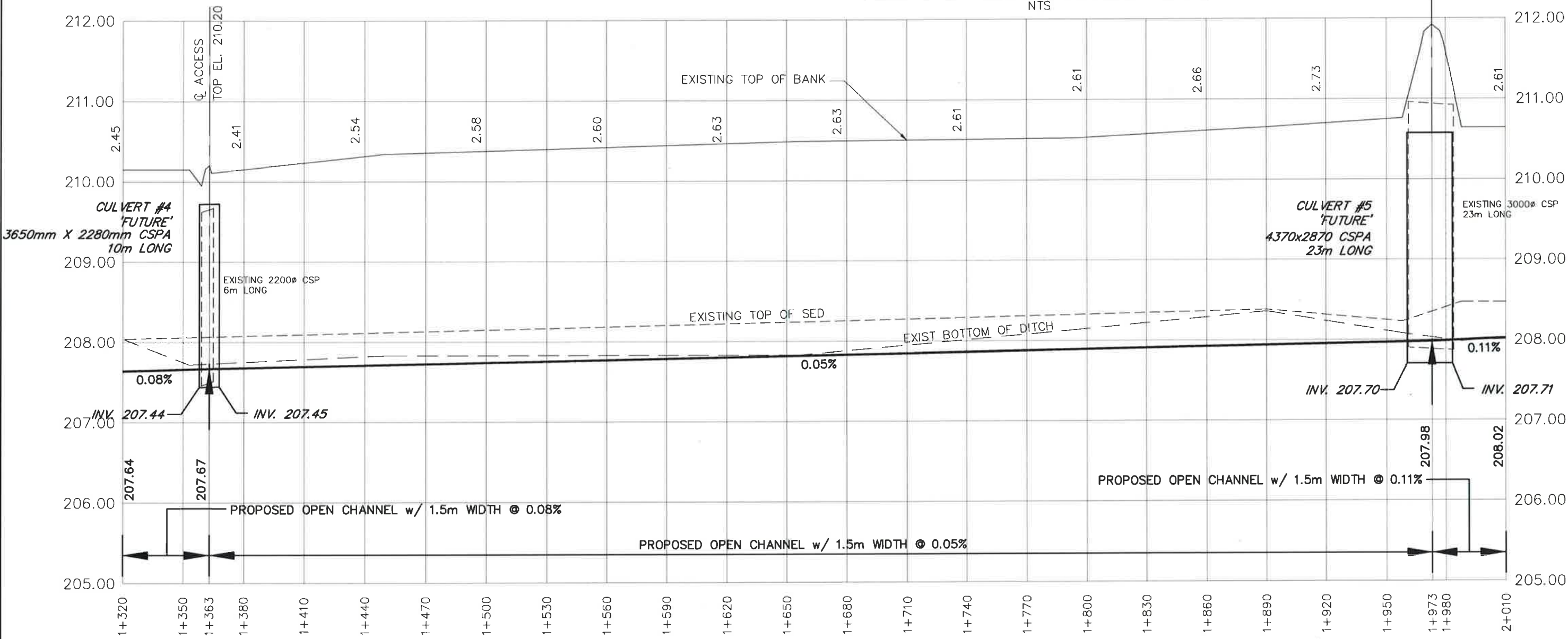
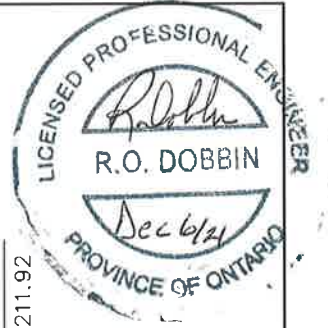
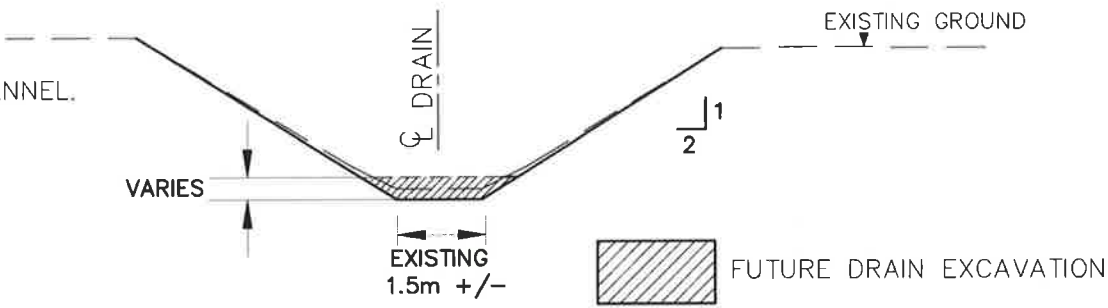
3  
OF 11



GENERAL NOTES

- 1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD
- 2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD
- 3. BENCHMARK No.5 ELEV. 209.62  
TOP WEST END OF EXISTING 2200 CSP  
CULVERT #4

4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 3

PROJECT No.  
2019-1056

APPROVED  
R. DOBBIN

CHECKED  
D. MOORES

DRAWN  
C. SAUNDERS

NO.	REVISIONS	DATE	BY
1	FINAL REPORT	DEC. 6, 2021	CS

SCALE: 1:2,000

0 20 40 60m

MUNICIPALITY of BROOKE - ALVINSTON

BOURNE DRAIN  
PROFILE

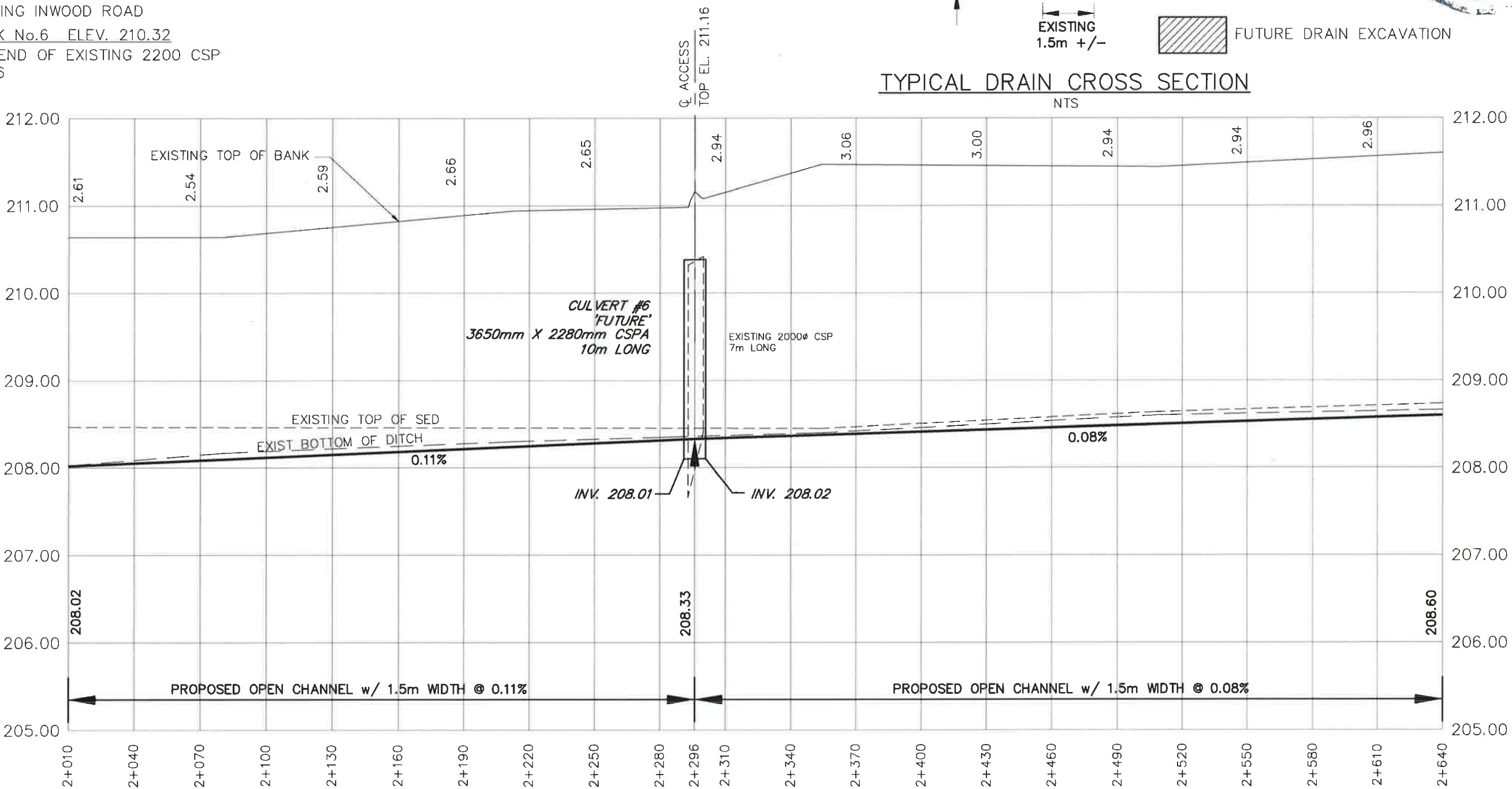
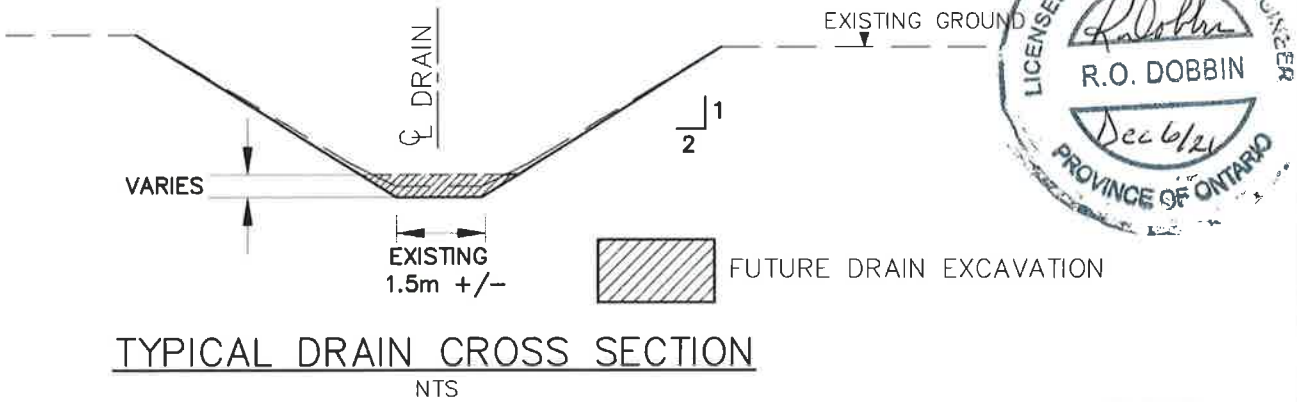
4  
OF 11


GENERAL NOTES

1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD

2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD

3. BENCHMARK No.6 ELEV. 210.32  
TOP WEST END OF EXISTING 2200 CSP  
CULVERT #6
4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.





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Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

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D. MOORES

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C. SAUNDERS

NO.	REVISIONS	DATE	BY
1	FINAL REPORT	DEC. 6, 2021	CS

SCALE: 1:2,000  
0 20 40 60m

MUNICIPALITY of BROOKE - ALVINSTON

BOURNE DRAIN  
PROFILE

5

OF 11

DRAWING NAME:  
Bourne Drain Profile 4

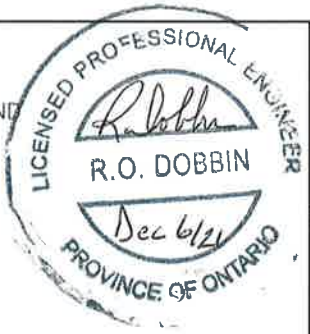
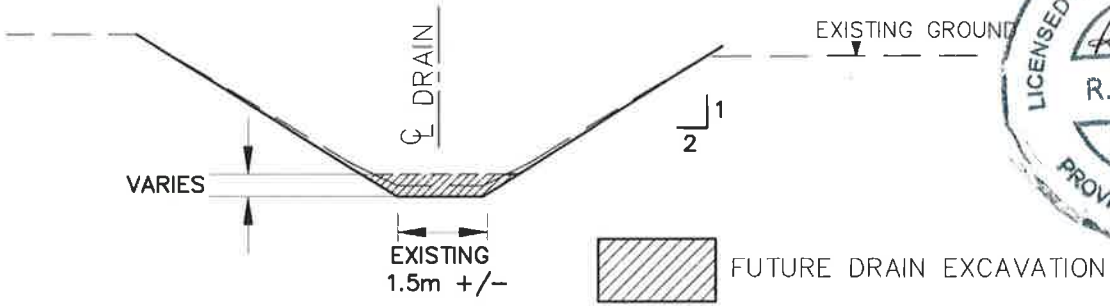
PROJECT No.  
2019-1056

GENERAL NOTES

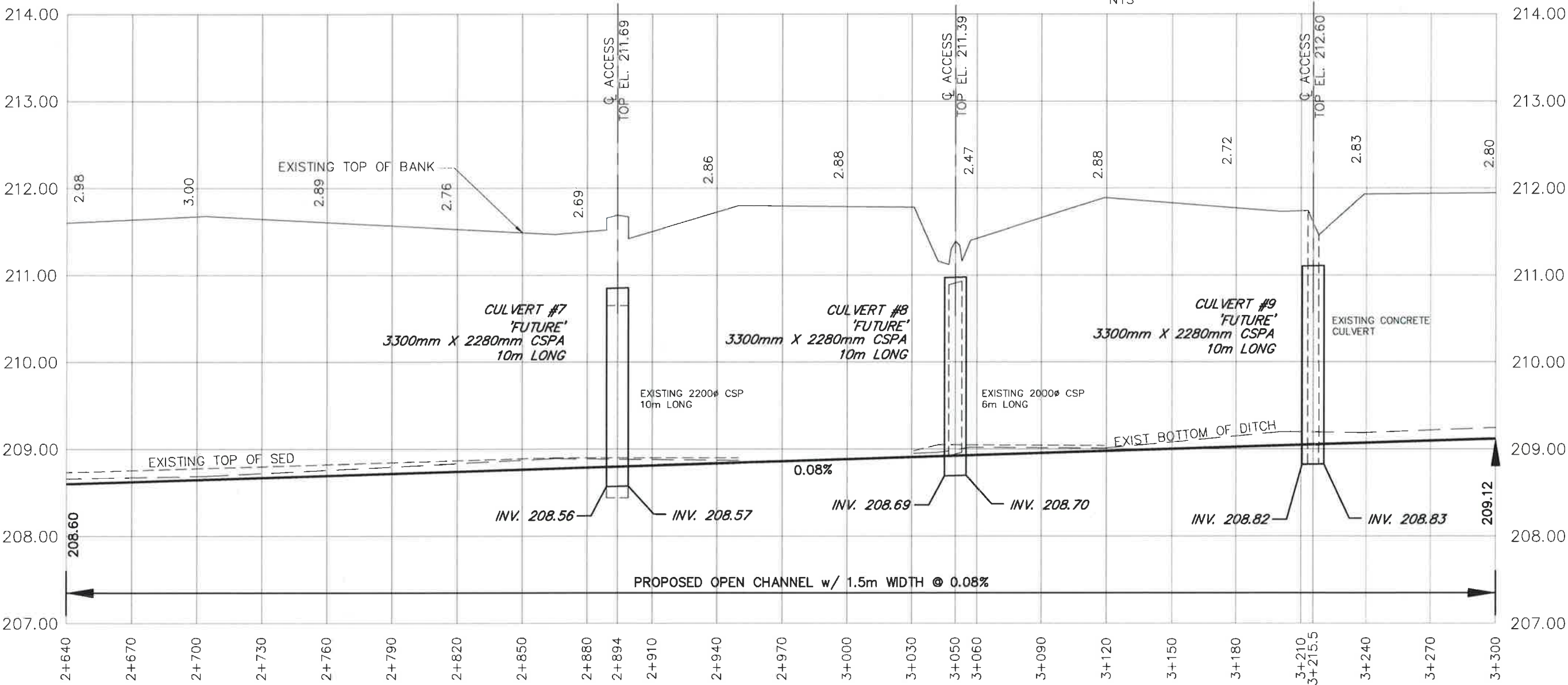
1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD

2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD

3. BENCHMARK No.7 ELEV. 210.65  
TOP WEST END OF EXISTING 2200 CSP  
CULVERT #7
4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



TYPICAL DRAIN CROSS SECTION



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 5

PROJECT No.  
2019-1056

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R. DOBBIN				
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D. MOORES				
DRAWN				
C. SAUNDERS				

SCALE: 1:2,000

0

20

40

60m

MUNICIPALITY of BROOKE - ALVINSTON

BOURNE DRAIN  
PROFILE

6  
OF 11

Last Updated: November 8, 2021

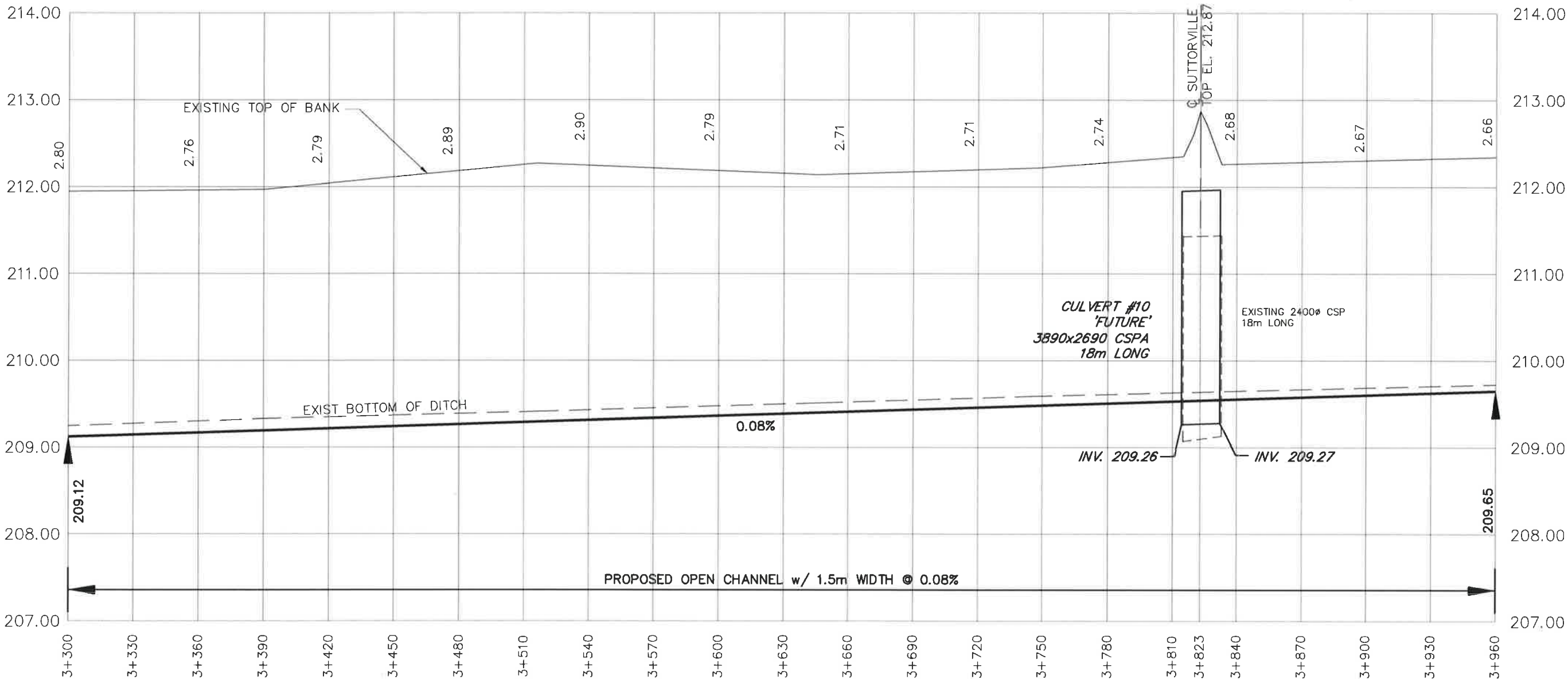
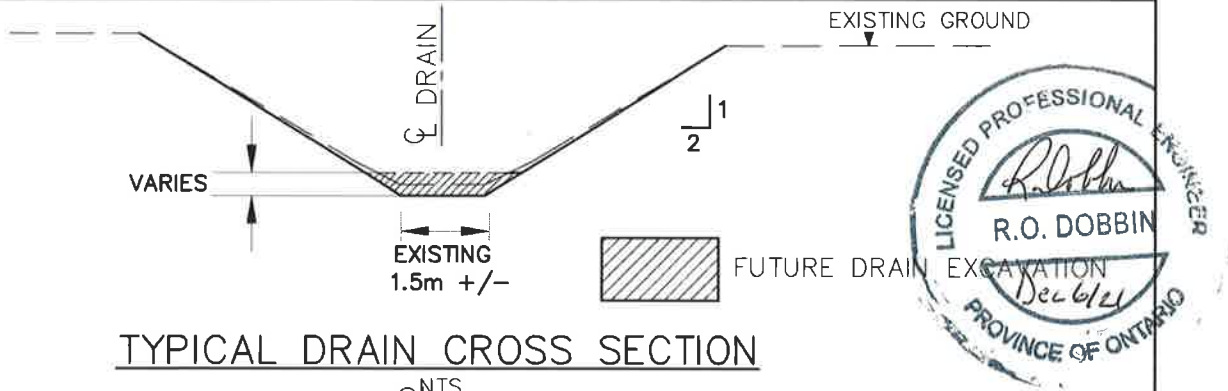


GENERAL NOTES

1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD

2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD

3. BENCHMARK No.8 ELEV. 211.44  
TOP WEST END OF EXISTING 2400 CSP  
CULVERT #10
4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 6

PROJECT No.  
2019-1056

APPROVED R. DOBBIN	NO.	REVISIONS	DATE	BY
CHECKED D. MOORES	1	FINAL REPORT	DEC. 6, 2021	CS
DRAWN C. SAUNDERS	SCALE: 1:2,000 0 20 40 60m			

MUNICIPALITY of BROOKE - ALVINSTON  
BOURNE DRAIN  
PROFILE

7  
OF 11

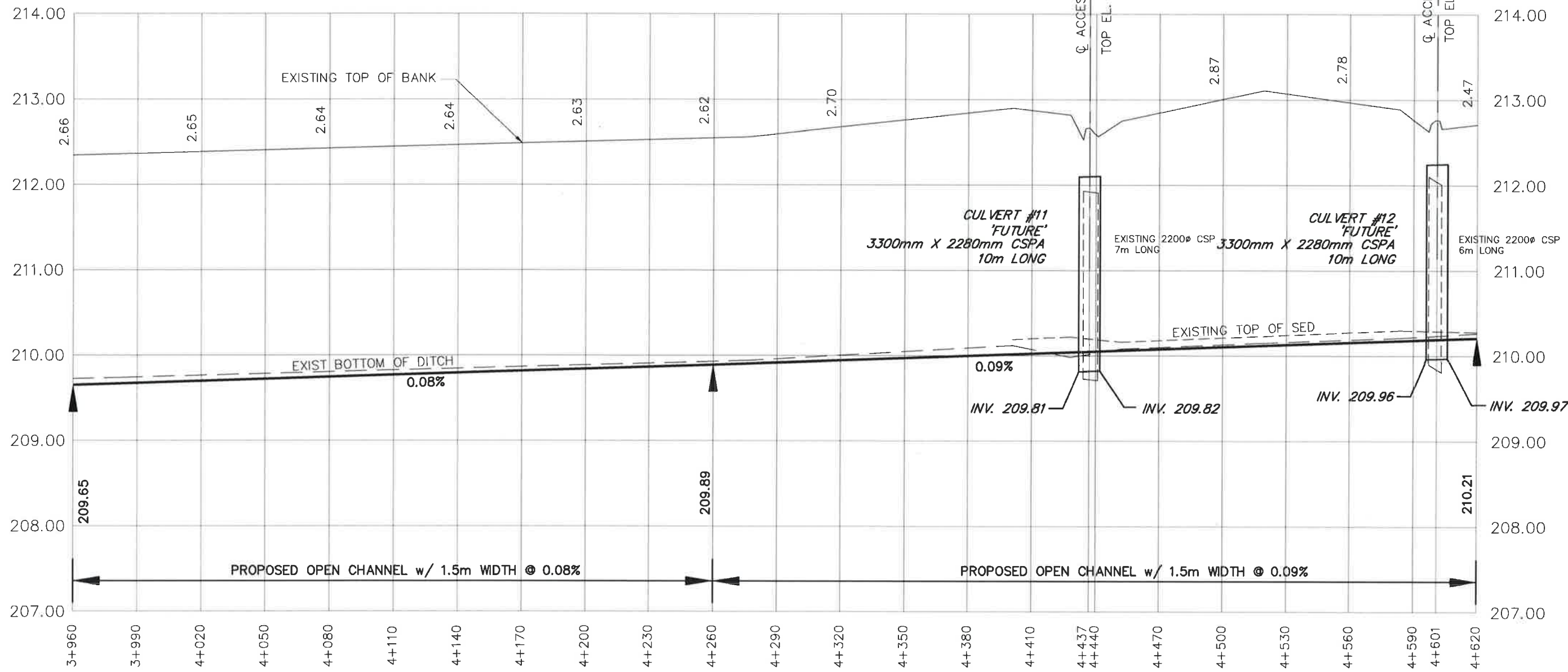
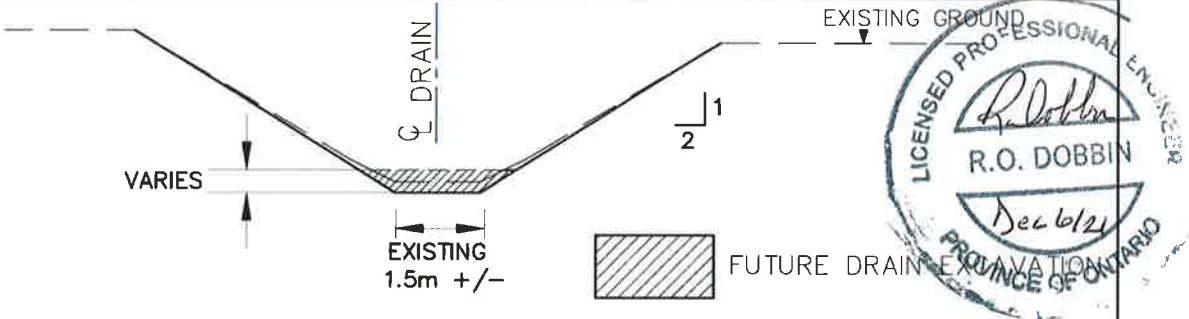
Last Updated: November 8, 2021

GENERAL NOTES

1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD

2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD

3. BENCHMARK No.9 ELEV. 211.93  
TOP WEST END OF EXISTING 2200 CSP  
CULVERT #11
4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 7

PROJECT No.  
2019-1056

APPROVED R. DOBBIN	NO.	REVISIONS	DATE	BY
CHECKED D. MOORES	1	FINAL REPORT	DEC. 6, 2021	CS
DRAWN C. SAUNDERS	SCALE: 1:2,000 0 20 40 60m			

MUNICIPALITY of BROOKE - ALVINSTON

BOURNE DRAIN  
PROFILE

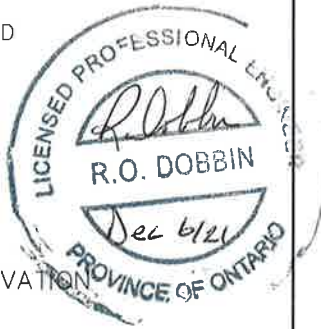
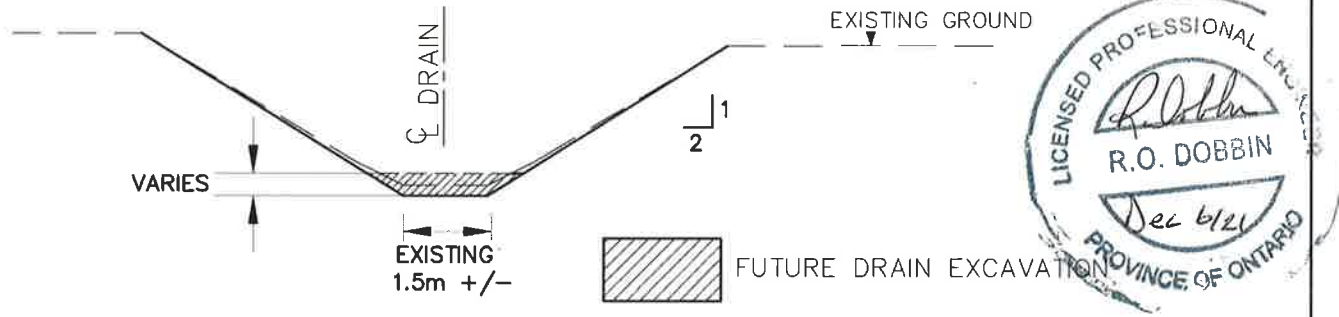
8  
OF 11

GENERAL NOTES

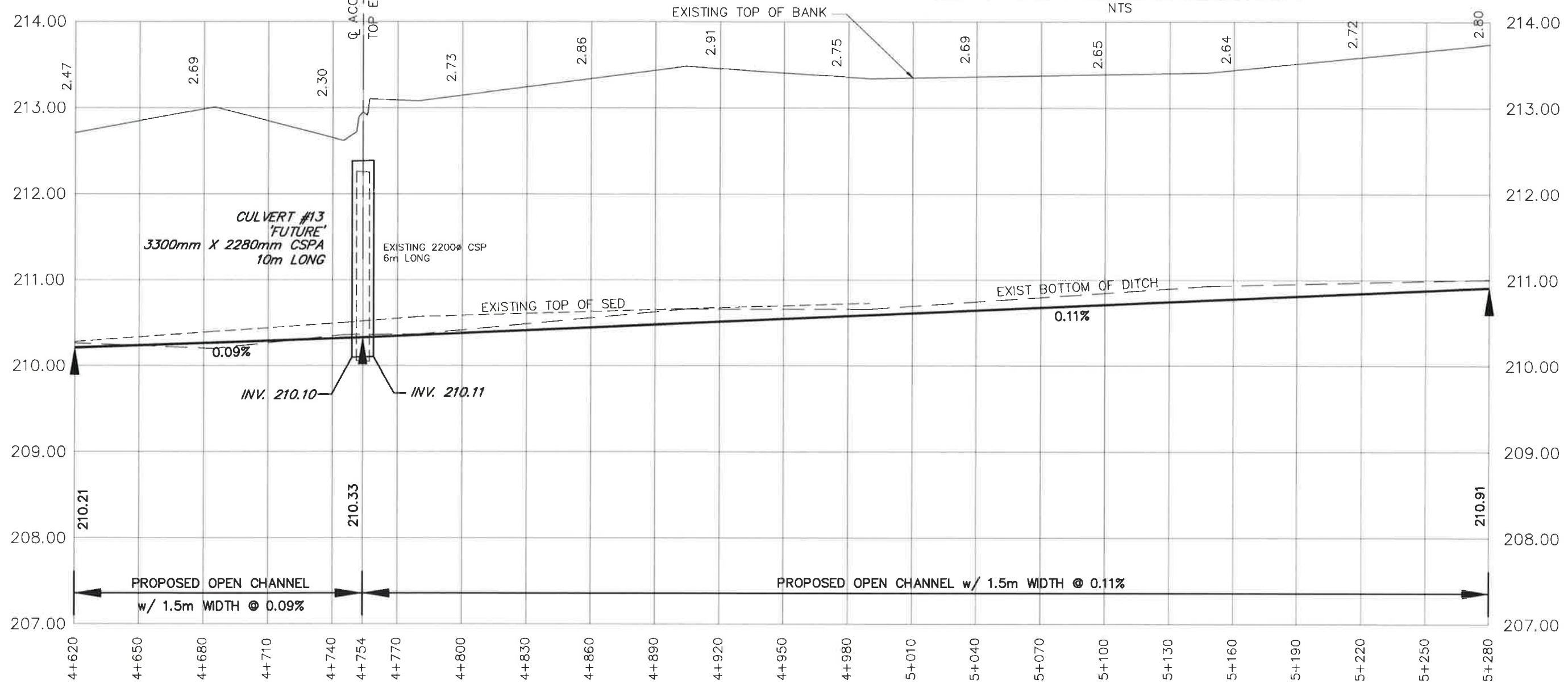
1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD

2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD

3. BENCHMARK No.9 ELEV. 212.26  
TOP WEST END OF EXISTING 2200 CSP  
CULVERT #13
4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



TYPICAL DRAIN CROSS SECTION



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 8

PROJECT No.  
2019-1056

APPROVED	NO.	REVISIONS	DATE	BY
R. DOBBIN				
CHECKED	1	FINAL REPORT	DEC. 6, 2021	CS
D. MOORES				
DRAWN				
C. SAUNDERS				

SCALE: 1:2,000  
0 20 40 60m

MUNICIPALITY of BROOKE - ALVINSTON  
BOURNE DRAIN  
PROFILE

9  
OF 11

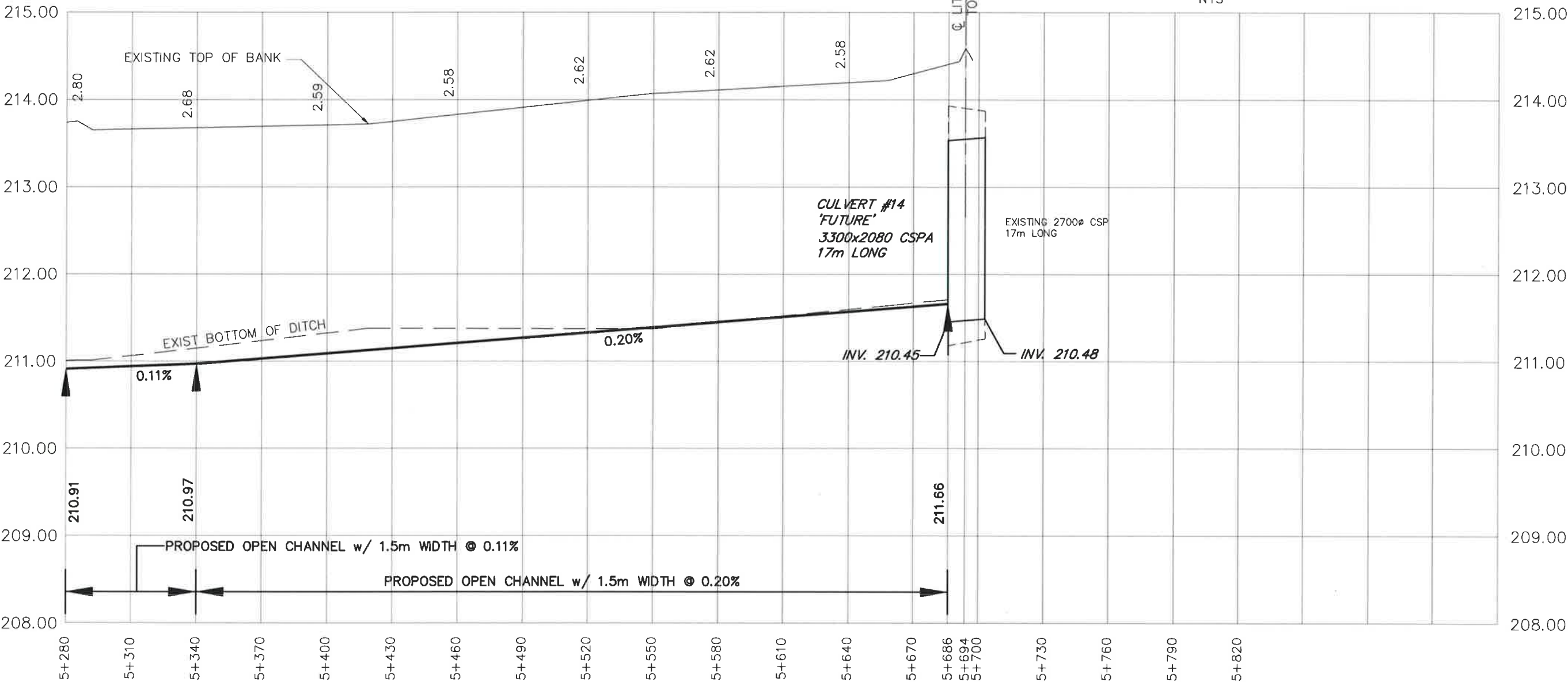
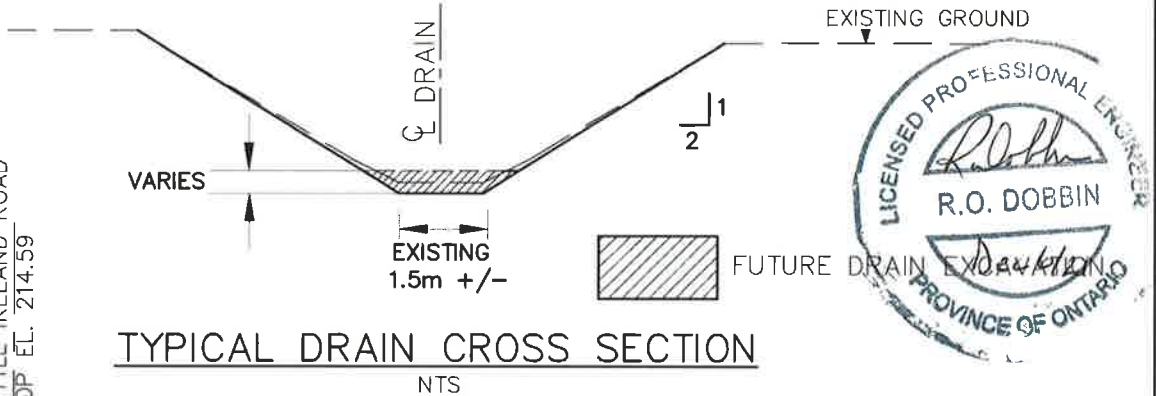


GENERAL NOTES

1. BENCHMARK No.1 ELEV. 209.47  
TOP WEST END OF EXISTING  
CSP CROSSING FOREST ROAD

2. BENCHMARK No.2 ELEV. 210.96  
TOP WEST END OF EXISTING  
CSP CROSSING INWOOD ROAD

3. BENCHMARK No.10 ELEV. 213.93  
TOP WEST END OF EXISTING 2700 CSP  
CULVERT #14
4. UPPER NUMBERS ARE DEPTH FROM  
NORTH/WEST TOP OF BANK TO BOTTOM OF NEW CHANNEL.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Bourne Drain Profile 9

PROJECT No.  
2019-1056

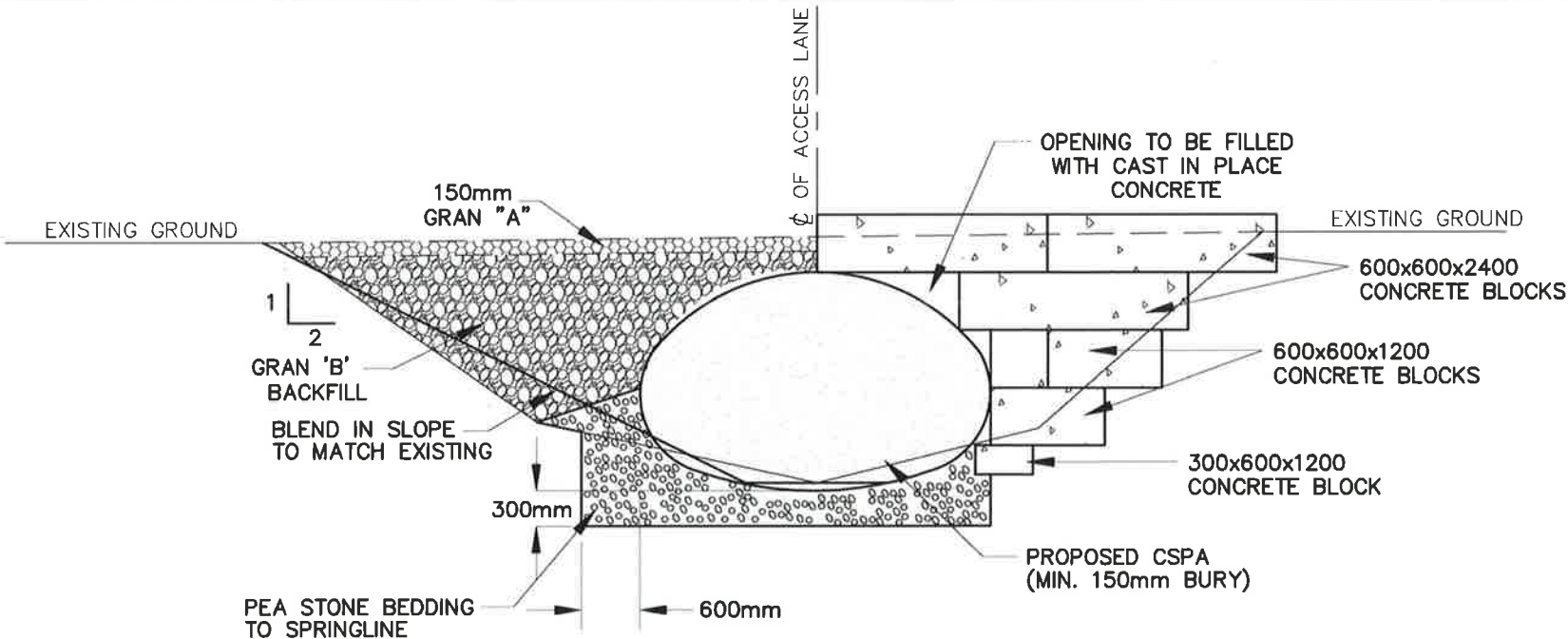
APPROVED R. DOBBIN	NO.	REVISIONS	DATE	BY
CHECKED D. MOORES	1	FINAL REPORT	DEC. 6, 2021	CS
DRAWN C. SAUNDERS	SCALE: 1:2,000 0 20 40 60m			

MUNICIPALITY of BROOKE - ALVINSTON  
BOURNE DRAIN  
PROFILE

10  
OF 11

BM No.1 ELEV. 209.047

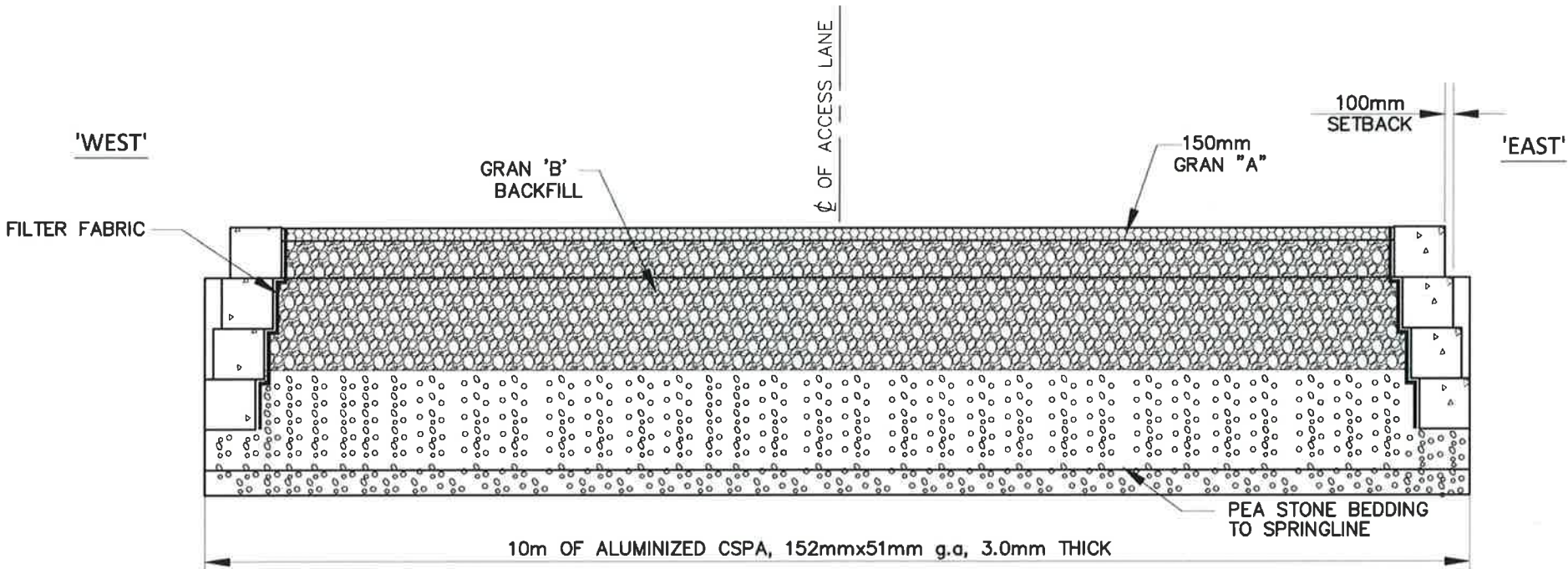
TOP WEST END OF EXISTING  
2500Ø CSP  
AT FOREST ROAD



PROPOSED PIPE END SECTION

GENERAL NOTES:

1. REFER TO SPECIFICATIONS FOR CULVERT SIZES AND LENGTHS.
2. BACKFILL MATERIAL TO BE GRANULAR MATERIAL UNLESS OTHERWISE SPECIFIED.
3. CONCRETE BLOCK ENDWALLS TO MATCH EXISTING GROUND.
4. CONCRETE BLOCKS ARE TO BE SET TO BOTTOM OF PIPE OR EMBEDDED TO ALLOW BLOCKS TO SIT LEVEL WITH THE TOP OF PIPE.
5. TOP ROW OF CONCRETE BLOCKS MAY BE 300MM HIGH IN ORDER TO MATCH FINISH GRADE.



PROPOSED CROSS-SECTION



DRAWING NAME:  
Bourne Drain Typical Culvert Details

4218 Oil Heritage Road  
Petralla Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

PROJECT No.  
2019-1056

APPROVED  
R. DOBBIN

CHECKED  
D. MOORES

DRAWN  
C. SAUNDERS

NO.	REVISIONS	DATE	BY
1	FINAL REPORT	DEC. 6, 2021	CS

SCALE 1:75



MUNICIPALITY OF BROOKE-ALVINSTON  
BOURNE DRAIN  
TYPICAL CULVERT DETAILS

11  
OF 11

Last Updated: November 8, 2021



**ENCLOSURE**

ESTIMATED NET ASSESSMENT

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Total	Less Grant	Less Allow.	Net Assess.
Agricultural Land								
9	N1/2 L15	1.62	30-172	D. & S. McGugan	45.00	15.00		30.00
10	W1/2 L1	30.40	40-003	D & G Gilroy	0.00	0.00		0.00
	E1/2 L1	30.40	40-004	J. & C. Sawyer				
	W1/2 L2	30.40	40-005	D & G Gilroy	16,332.00	5,444.00	1,318.00	9,570.00
	E1/2 L2	30.40	40-006	R. Melton	1,054.00	351.33		702.67
	W1/2 L3	30.40	40-007	T. Campbell	1,054.00	351.33		702.67
	E1/2 L3	32.48	40-008	K. & S. Campbell	902.00	300.67		601.33
	W1/2 L4	34.40	40-009	T. Campbell	955.00	318.33		636.67
	E1/2 L4	34.40	40-011	K. & J. McEwen	1,165.00	388.33		776.67
	W1/2 L5	28.30	40-012	Art Griffith Farms Inc.	996.00	332.00		664.00
	E1/2 L5	28.30	40-013	J. Campbell	996.00	332.00		664.00
	L6	28.30	40-014	S. Tomlinson	1,781.00	593.67		1,187.33
	W1/2 L7	28.30	40-016	S. Edgar	786.00	262.00		524.00
	E1/2 L7	28.30	40-017	R. Edgar	996.00	332.00		664.00
	W1/2 L8	28.30	40-018	R. Edgar	996.00	332.00		664.00
	E1/2 L8	24.30	40-019	Art Griffith Farms Inc.	885.00	295.00		590.00
10	N1/2 L9	38.50	40-020	RLC Farms	1,069.00	356.33		712.67
	NW1/4 L10	19.66	40-023	1432234 Ontario Limited	546.00	182.00		364.00

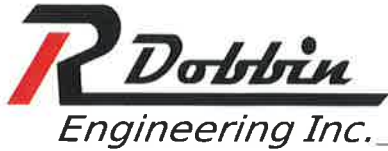
Estimated Net Assessment (cont'd) 2 of 3

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Total	Less Grant	Less Allow.	Net Assess.
<b>Agricultural Land (cont'd)</b>								
10	NE1/4 L10	19.34	40-024	K. McGugan	537.00	179.00		358.00
	NWpt. L11	16.58	40-022	B. & D. Watson	490.00	163.33		326.67
	S1/2 L10 & SWpt. L11	29.56	40-02201	R. Podolinsky	821.00	273.67		547.33
	E3/5 L11	48.60	40-025	F & M Van Den Ouweland	1,349.00	449.67		899.33
	NW1/2 L12	19.85	40-026	K. Podolinsky	551.00	183.67		367.33
	NE1/2 L12	19.74	40-027	B. Podolinsky	548.00	182.67		365.33
	S1/2 L12	3.65	40-028	1152513 Ontario Ltd.	101.00	33.67		67.33
	Wpt. & Spt. L13	31.18	40-030	S. MacRae	866.00	288.67		577.33
	Nept. L13	20.09	40-031	Sawyer Family Farms Ltd.	558.00	186.00		372.00
	W1/2 L14	38.47	40-032	D. Mac Rae	1,068.00	356.00		712.00
	E1/2 L14	38.47	40-033	S & J. MacRae	1,068.00	356.00		712.00
	N1/2 L15	38.47	40-034	Griffith Seeds Inc.	1,068.00	356.00		712.00
	S1/2 L15	40.50	40-03401	J. & C. Griffith	1,124.00	374.67		749.33
	S1/2 L16	2.02	50-002	W & T Douglas	56.00	18.67		37.33
11	SE1/4 L12	7.45	40-064	G. T. Sportel	207.00	69.00		138.00
	S3/4 L13	49.81	40-067	E. & J. Foster	1,383.00	461.00		922.00
	W1/2 L14	40.50	40-068	Shea Farms Ltd.	1,124.00	374.67		749.33
	E1/2 L14	40.50	40-069	Shea Farms Ltd.	1,124.00	374.67		749.33
	L15	46.17	40-071	T. J. Straatman Enterprises Limited	1,282.00	427.33		854.67
	L16	1.60	50-033	D & G Ferguson	44.00	14.67		29.33
12	W1/2 L14	10.12	40-097	J. & S. Manders	281.00	93.67		187.33
	E1/2 L14	4.05	40-098	P. & T. Minten	112.00	37.33		74.67

Estimated Net Assessment (cont'd)

3 of 3

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Total	Less Grant	Less Allow.	Net Assess.
Non Agricultural Lands								
10	pt.NW1/4 L10	0.54	40-02301	D. McIlmoyle-Duncan	26.00			26.00
	pt.NE1/4 L10	0.76	40-02401	C. Vegso / L Smith	32.00			32.00
	pt.NW1/4 L12	0.40	40-02601	J. & T. Douglas	22.00			22.00
	pt.NE1/4 L12	0.51	40-02701	J. Phillips	25.00			25.00
	pt.N1/2 L15	0.73	40-03405	J. Annett	31.00			31.00
11	pt.SW1/4 L12	0.66	40-06403	W. & K. App	29.00			29.00
	pt.SW1/4 L12	0.45	40-06402	C. & B. Andrews	24.00			24.00
	pt.S3/4 L13	0.81	40-06701	A. Foster	34.00			34.00
	pt.E1/2 L14	0.79	40-06904	S. & J. Johnston	33.00			33.00
	pt. L15	0.40	40-070	M. & C. Abra	22.00			22.00
	pt. L16	0.42	50-03303	D. & G. Ferguson	23.00			23.00
Public Lands: Roads								
	Petrolia Line	5.49		County of Lambton	610.00			610.00
	Inwood Road	2.37		County of Lambton	434.00			434.00
	Sutorville Road	1.72		Municipality of Brook Alvinston	143.00			143.00
	Little Ireland Road	1.00		Municipality of Brook Alvinston	322.00			322.00
	Ebenezer Road	3.00		Municipality of Brook Alvinston	250.00			250.00
	Old Walnut Road	2.43		Municipality of Brook Alvinston	202.00			202.00
Total Benefit					49,636.00	15,791.33	1,318.00	32,526.67



4218 Oil Heritage Road  
 Petrolia, Ontario, N0N 1R0  
 Phone: (519) 882-0032 Fax: (519) 882-2233  
[www.dobbineng.com](http://www.dobbineng.com)

December 6, 2021

The Mayor and Council  
 Municipality of Brooke Alvinston  
 3236 River Street  
 Alvinston, Ontario  
 N0N 1A0

Gentlemen & Mesdames:

**Re: Johnson Drain**

In accordance with your instructions, we have undertaken an examination of the Johnson Drain with regards to the replacement of the access culvert in the west part NW1/4 Lot 11, Concession 10 and investigating the condition of the other access culverts and replacing those as required based on their current condition. The drainage works is generally located in Lots 10 to 14, Concessions 10 and 11, in the Municipality of Brooke Alvinston.

Authorization under the Drainage Act

This Engineers Report has been prepared under section 78 of the Drainage Act as per the request of an affected Owner.

Section 78 of the Drainage Act states that, where, for the better use, maintenance or repair of any drainage works constructed under a bylaw passed under this Act, or of lands or roads, it is considered expedient to change the course of the drainage works, or to make a new outlet for the whole or any part of the drainage works, or to construct a tile drain under the bed of the whole or any part of the drainage works as ancillary thereto, or to construct, reconstruct or extend embankments, walls, dykes, dams, reservoirs, bridges, pumping stations, or other protective works as ancillary to the drainage works, or to otherwise improve, extend to an outlet or alter the drainage works or to cover the whole or any part of it, or to consolidate two or more drainage works, the Council whose duty it is to maintain and repair the drainage works or any part thereof may, without a petition required under section 4 but on the report of an Engineer appointed by it, undertake and complete the drainage works as set forth in such report.

### Existing Drainage

The Johnson Drain consists of both a channel and a covered drain. It outlets to the Bourne Drain on the east side of Little Ireland Road and extends as a channel to the Lot 11/12 line. It continues from this point as a covered drain for a distance of approx. 2,420 metres to the north side of Petrolia Line thence north along the Lot 13/14 to the south side of the N1/4 Lot 13, a distance of approx. 2,395 metres.

Under an engineer's report dated March 24, 1955 (bylaw no. 17 of 1955), the Johnson Drain was extended as a channel north along the east side of the Lot 13/14 line to the south limit of the N1/4 Lot 13.

The closed drain was constructed under an engineer's report dated April 30, 1980 and the channel in Lots 10 and 11, Concession 10 was last improved under an engineer's report dated January 10, 1972.

The drainage works provides outlet for a Branch of the Johnson Drain in Lot 13, Concession 10 east of Ebenezer Road and the Johnson Swartz Drain on the east side of the Lot 10/11 line in Concession 10.

### Onsite Meeting

An onsite meeting was held on May 4, 2020. It was requested that the access culvert in the west part NW1/4 Lot 11, Concession 10 be replaced as it is in poor shape. It was noted that the other access culverts along the drainage works be investigated and any found in poor shape would be replaced. Specifications for future replacement would be included for those culverts still in reasonable shape.

### Investigation

There were 3 culverts found along the channel portion of the drainage works. Culvert No. 1 was found in fair condition. Culvert No. 2 has been relaced under Emergency Designation and Culvert No. 3 was found in poor condition.

### Emergency Designation

Due to the poor condition of Culvert No. 2 located in the Wpt.NW1/4 Lot 11, Concession 10, It was replaced under an emergency designation within Section 124 of the Drainage Act.

### Recommendations

It is therefore recommended that the following work be carried out:

1. Access culvert no. 2 has been replaced under emergency designation and is to be incorporated as part of the drainage works;
2. Access culvert no. 3 is to be replaced; and
3. A Schedule of Maintenance shall be developed for maintenance and repair of the open channel and the remaining access culverts.

### Design

Major agricultural and residential culverts are usually designed to provide outlet for a 1 in 2 year storm. Road culverts are usually designed to provide outlet for a 1 in 10 year storm.

### Estimate of Cost

It is recommended that the work be carried out in accordance with the accompanying Specification of Work and the Profile, which form part of this Report. There has been prepared an Estimate of Cost in the amount of \$52,891.00, including the cost of engineering. A Plan has been prepared showing the location of the work and the approximate drainage area.

### Assessment

As per section 21 of the Drainage Act, the Engineer in his report shall assess for benefit and outlet for each parcel of land and road liable for assessment.

Lands, roads, buildings, utilities, or other structures that are increased in value or are more easily maintained as a result of the construction, improvement, maintenance, or repair of a drainage works may be assessed for benefit. (Section 22)

Lands and roads that use a drainage works as an outlet, or for which, when the drainage works is constructed or improved, an improved outlet is provided either directly or indirectly through the medium of any other drainage works or of a swale, ravine, creek, or watercourse may be assessed for outlet. The assessment for outlet shall be based on the volume and rate of flow of the water artificially caused to flow into the drainage works from the lands and roads liable for such assessments. (Section 23)

The Engineer may assess for special benefit any lands for which special benefits have been provided by the drainage works. (Section 24)

A Schedule of Assessment for lands and roads affected by the work and therefore liable for the cost thereof has been prepared as per the Drainage Act. Any affected public utility or road authority shall be assessed, as per section 26 of the Drainage Act, any increased costs for the removal or relocation of any of its facilities and plant that may be necessitated by construction or future maintenance and repair work. The cost of any fees for permits or approvals or any extra work required by any affected utility, road authority, conservation authority, ministry, government agency, etc., federal or provincial, shall be assessed to that organization requiring the permit, approval, or extra work.

The cost of the access culvert replacements has been assessed with approximately 50% of the cost applied as benefit assessment to the owner of the property and the remaining cost has been assessed as outlet assessment on upstream lands and roads based on equivalent hectares.

If a landowner requests an additional length of culvert beyond 10 metres for an access culvert or the piped sections specified, the extra cost shall be assessed 100% to the landowner.

#### Allowances

Under section 29 of the Drainage Act, the Engineer in his report shall estimate and allow in money to the Owner of any land that it is necessary to use for the construction or improvement of a drainage works or for the disposal of material removed from a drainage works. This shall be considered an allowance for right of way.

Under section 30 of the Drainage Act, the Engineer shall determine the amount to be paid to persons entitled thereto to damage, if any, to ornamental trees, fences, land, and crops occasioned by the disposal of material removed from a drainage works. This shall be considered an allowance for damages.

Allowances have been made, where appropriate, as per section 29 of the Drainage Act for right of way (buffer strips) and as per section 30 of the Drainage Act for damages to lands and crops. Allowances for right of way are based on a land value of \$20,000.00 per hectare (\$8,000.00 per acre). Allowances for crop loss are based on \$1,500.00 per hectare for the first year and \$750.00 for the second year (\$2,250.00 per hectare total).

Allowances have been made under section 30 for damages to lands and crops occasioned by the operation of excavation equipment to replace the culverts.



### Access and Working Area

The working area at each culvert shall extend 10 metres from the bank on the south side of the channel and for 10 metres along the channel on either side of the culvert.

Access for installation of the access culverts and also for any future maintenance and repair shall be from Petrolia Line through each property. The width of the access shall be restricted to 6 metres.

Access for future maintenance and repair of the channel shall generally be from Little Ireland Road and through each property from Petrolia Line. The working area shall extend from the top of the south bank of the channel south for a distance of 10 metres for the length of the drainage works.

### Drain Classification

The Johnson Drain is classified as a class “F” drain along its length. It outlets to the Bourne Drain on the east side of Little Ireland Road. The Bourne Drain is a class “C” drain from Little Ireland Road downstream to Inwood Road. These classifications are according to the Ontario Ministry of Agriculture, Food and Rural Affairs Agricultural Information Atlas.

Class “F” drains are intermittent or ephemeral (dry for more than two consecutive months). Authorization is not required if work is done in the dry.

Type “C” drains have permanent water flow, possess warm water flow, and have a fish community composed of baitfish. Authorized activities in a type C drain include brushing of side slopes, bottom cleanout, debris cleanout, and full cleanout. Specific terms and conditions of a class authorization include vegetation removal allowed on either bank but must be replanted, bends in the channel must be stabilized, specific timing restrictions, sediment control, and work in water only when flows are not elevated.

The proposed culvert construction will have very little effect on the drainage works if carried out during low flows in the channel. The work area is to be maintained in a dry condition during construction by the Contractor.

### Restrictions

No trees and shrubs shall be planted nor shall permanent structures be erected within 10 metres of either side of the proposed drain without prior written permission of Council. If

trees are planted that interfere with access for future maintenance of the drainage works, they shall be removed at the expense of the Owner.

Attention is also drawn to sections 80 and 82 of the Drainage Act that refer to the obstruction of a drainage works.

#### Agricultural Grant

It is recommended that application for subsidy be made for eligible agricultural properties. Any assessments against non agricultural properties are shown separately in the Schedule of Assessment.

#### Maintenance

The channel portion of the Johnson Drain shall be maintained and repaired in accordance with the enclosed Schedule of Maintenance No. 1. The tile portion of the Johnson Drain shall be maintained and repaired in accordance with the enclosed Schedule of Maintenance No. 2. Maintenance and repair of the outlet works (tile drain) shall be assessed to upstream properties pro rata with the equivalent hectares contained in Schedule of Maintenance No. 2

The access culverts located along the length of the drain shall be maintained and repaired with 50% of the costs assessed to the benefitting property and the remainder of the costs shall be assessed to upstream properties pro rata with the equivalent hectares contained in the Schedule of Maintenance No. 1.

If an owner requests an additional length of culvert beyond that specified in this report, the extra cost shall be borne by the owner making the request including the future maintenance and repair. Each property is allowed one access culvert for each municipal drain with any second culvert on the property maintained and repaired 100% by the owner.

These above conditions will apply unless otherwise altered under the provisions of the Drainage Act.

All of the above is submitted for your consideration.

Yours truly,



Ray Dobbin, P. Eng.



Johnson Drain  
Municipality of Brooke Alvinston  
December 6, 2021

**ALLOWANCES**

Allowances have been made as per section 30 of the Drainage Act for damages to lands and crops.

Conc.	Lot or pt. Lot	Roll No.	Owner	Section 30	Total
10	NWpt. L11	40-022	B. & D. Watson	458.00	458.00
	Ept. L11	40-025	F. & M. Van Den Ouweland	546.00	546.00
Total Allowances				1,004.00	1,004.00

Johnson Drain  
Municipality of Brooke Alvinston  
December 6, 2021

### Estimate of Cost

#### Replace Access Culverts on the Johnson Drain

Allowances: 1,004.00

	Quantity	Unit	Material	Labour	
Culvert No. 2 (NWpt. L11)					
R. & D. of Existing Culvert		LS		310.00	
S. & I. 1600 mm dia. CSP	10.0	m	7,320.00	310.00	
S. & I. bedding material	24.0	tonne	744.00	160.00	
S. & I. Granular "B"/Backfill	138.0	tonne	2,622.00	620.00	
S. & I. Granular "A"	22.0	tonne	550.00	160.00	
S. & I. block endwalls	49.0	each	4,900.00	930.00	
			16,136.00	2,490.00	18,626.00
Culvert No. 3 (Ept. L11)					
R. & D. of Existing Culvert		LS		310.00	
S. & I. 1600 mm dia. CSP	10.0	m	7,320.00	310.00	
S. & I. bedding material	24.0	tonne	744.00	160.00	
S. & I. Granular "B"/Backfill	138.0	tonne	2,622.00	620.00	
S. & I. Granular "A"	22.0	tonne	550.00	160.00	
S. & I. block endwalls	49.0	each	4,900.00	930.00	
			16,136.00	2,490.00	18,626.00
Silt Fence	2	each	275.00		550.00
Miscellaneous					1,862.00
			Sub Total		40,668.00
			Engineering		9,313.00
			Revise Schedule		1,500.00
			Inspection		1,020.00
			SCRCA Fee		390.00
			<b>Total Estimate</b>		<b>\$52,891.00</b>

### SCHEDULE OF ASSESSMENT

To replace access culverts as required and provide for the replacement of access culverts in the future.

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Agricultural Land							
10	NW1/4 L10	17.69	40-023	1432234 Ontario Limited		95.00	95.00
	NE1/4 L10	15.39	40-024	K. McGugan		82.00	82.00
	Wpt.NW1/4 L11	11.34	40-022	B. & D. Watson	12,825.00	61.00	12,886.00
	Ept. L11	17.81	40-025	F. & M. Van Den Ouweland	12,825.00	1,177.00	14,002.00
	NW1/4 L12	12.12	40-026	K. Podolinsky		1,520.00	1,520.00
	NE1/4 L12	7.63	40-027	B. Podolinsky		957.00	957.00
	NWpt. L13	8.10	40-030	S. MacRae		1,016.00	1,016.00
	NEpt. L13	3.24	40-031	Sawyer Family Farms Ltd.		406.00	406.00
	W1/2 L14	0.81	40-032	D. MacRae		102.00	102.00
11	SE1/4 L12	8.74	40-064	G. & T. Sportel		1,096.00	1,096.00
	S3/4 L13	49.75(2.54)	40-067	E. & J. Foster		6,079.00	6,079.00
	W1/2 L14	40.08	40-068	Shea Farms Ltd.		5,026.00	5,026.00
	E1/2 L14	24.29	40-069	Shea Farms Ltd.		3,046.00	3,046.00
	L15	12.15	40-071	T. J. Straatman Enterprises Limited		1,524.00	1,524.00
12	W1/2 L14	10.12(8.71)	40-097	J. & S. Manders		724.00	724.00
	E1/2 L14	4.05(4.05)	40-098	P. & T. Minten		1,835.00	1,835.00
Numbers in brackets represents woodlots - assessed at half rate					Total Benefit	25,650.00	50,396.00
					Total Outlet	24,746.00	
					Total - Agricultural	50,396.00	

## Schedule of Assessment (cont'd) 2 of 2

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total
Non Agricultural Land							
10	pt.NW1/4 L10	0.53	40-02301	D. McIlmoyle-Duncan		117.00	117.00
	pt.NE1/4 L10	0.80	40-02401	C. Vegso & L. Smith		150.00	150.00
	pt.NW1/4 L12	0.43	40-02601	J. & T. Douglas		104.00	104.00
	pt.NE1/4 L12	0.47	40-02701	J. Phillips		109.00	109.00
11	pt.SE1/4 L12	0.67	40-06403	W. & K. Apps		134.00	134.00
	pt.SE1/4 L12	0.70	40-06402	C. & B. Andrews		138.00	138.00
	pt.S3/4 L13	0.86	40-06701	A. Foster		158.00	158.00
Total Benefit					0.00	910.00	910.00
Total Outlet					910.00		
Total - Non Agricultural					910.00		
Public Lands: Roads							
Petrolia Line		2.02		County of Lambton		1,013.00	1,013.00
Ebenezer Road		1.89		Municipality of Brooke Alvinston		572.00	572.00
Total Benefit					0.00	1,585.00	572.00
Total Outlet					1,585.00		
Total - Public Lands: Roads					1,585.00		
Total - Non Agricultural					910.00		
Total - Agricultural					50,396.00		
Total Assessment					\$52,891.00		

Johnson Drain  
Municipality of Brooke Alvinston  
December 6, 2021

### SCHEDULE OF MAINTENANCE No. 1

To maintain and repair the channel portion of the Johnson Drain.

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	equiv. ha.
Township of Enniskillen								
Agricultural Land								
10	NW1/4 L10	17.69	40-023	1432234 Ontario Limited	490.00		490.00	17.69
	NE1/4 L10	15.39	40-024	K. McGugan	490.00	15.00	505.00	15.39
	Wpt.NW1/4 L11	11.34	40-022	B. & D. Watson	399.00	23.00	422.00	11.34
	Ept. L11	17.81	40-025	F. & M. Van Den Ouweland	581.00	77.00	658.00	17.81
	NW1/4 L12	12.12	40-026	K. Podolinsky		52.00	52.00	12.12
	NE1/4 L12	7.63	40-027	B. Podolinsky		33.00	33.00	7.63
	NWpt. L13	8.10	40-030	S. MacRae		35.00	35.00	8.10
	NEpt. L13	3.24	40-031	Sawyer Family Farms Ltd.		14.00	14.00	3.24
	W1/2 L14	0.81	40-032	D. MacRae		5.00	5.00	0.81
11	SE1/4 L12	8.74	40-064	G. & T. Sportel		38.00	38.00	8.74
	S3/4 L13	49.75(2.54)	40-067	E. & J. Foster		208.00	208.00	48.48
	W1/2 L14	40.08	40-068	Shea Farms Ltd.		172.00	172.00	40.08
	E1/2 L14	24.29	40-069	Shea Farms Ltd.		104.00	104.00	24.29
	L15	12.15	40-071	T. J. Straatman Enterprises Limited		52.00	52.00	12.15
12	W1/2 L14	10.12(8.71)	40-097	J. & S. Manders		25.00	25.00	5.77
	E1/2 L14	4.05(4.05)	40-098	P. & T. Minten		114.00	114.00	2.03
Numbers in brackets represents woodlots - assessed at half rate					1,960.00	967.00	2,927.00	
					967.00			
Total - Agricultural					2,927.00			

## Schedule of Maintenance (cont'd) 2 of 2

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	equiv. ha.
<b>Non Agricultural Land</b>								
10	pt.NW1/4 L10	0.53	40-02301	D. McIlmoyle-Duncan		5.00	5.00	0.93
	pt.NE1/4 L10	0.80	40-02401	C. Vegso & L. Smith		5.00	5.00	1.20
	pt.NW1/4 L12	0.43	40-02601	J. & T. Douglas		5.00	5.00	0.83
	pt.NE1/4 L12	0.47	40-02701	J. Phillips		5.00	5.00	0.87
11	pt.SE1/4 L12	0.67	40-06403	W. & K. Apps		5.00	5.00	1.07
	pt.SE1/4 L12	0.70	40-06402	C. & B. Andrews		5.00	5.00	1.10
	pt.S3/4 L13	0.86	40-06701	A. Foster		5.00	5.00	1.26
Total Benefit					0.00	35.00	35.00	
Total Outlet					35.00			
Total - Non Agricultural					35.00			
<b>Public Lands: Roads</b>								
Petrolia Line Ebenezer Road		2.02		County of Lambton		35.00	35.00	8.08
		1.89		Municipality of Brooke Alvinston		24.00	24.00	5.67
Total Benefit					0.00	59.00	59.00	256.68
Total Outlet					59.00			
Total - Public Lands: Roads					59.00			
Total - Non Agricultural					35.00			
Total - Agricultural					2,927.00			
Total Assessment					\$3,021.00			



### SCHEDULE OF MAINTENANCE No. 2

To maintain and repair the tile portion of the Johnson Drain.

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	equiv. ha.
Township of Enniskillen								
Agricultural Land								
10	NW1/4 L12	12.12	40-026	K. Podolinsky	1,740.42	35.52	1,775.94	12.12
	NE1/4 L12	7.63	40-027	B. Podolinsky	1,858.72	25.16	1,883.88	7.63
	Wpt. & Spt. L13	8.10	40-030	S. MacRae	1,535.44	31.08	1,566.52	8.10
	NEpt. L13	3.24	40-031	Sawyer Family Farms Ltd.	606.78	14.06	620.84	3.24
	W1/2 L14	0.81	40-032	D. MacRae		3.70	3.70	0.81
11	SE1/4 L12	8.74	40-064	G. & T. Sportel		29.60	29.60	8.74
	S3/4 L13	49.75(2.54)	40-067	E. & J. Foster	192.39	372.95	565.34	48.48
	W1/2 L14	40.08	40-068	Shea Farms Ltd.	1,457.75	538.70	1,996.45	40.08
	E1/2 L14	24.29	40-069	Shea Farms Ltd.		326.47	326.47	24.29
	L15	12.15	40-071	T. J. Straatman Enterprises Limited		163.30	163.30	12.15
12	W1/2 L14	10.12(8.71)	40-097	J. & S. Manders		77.55	77.55	5.77
	E1/2 L14	4.05(4.05)	40-098	P. & T. Minten		27.28	27.28	2.03
Numbers in brackets represents woodlots - assessed at half rate					7,391.50	1,645.37	9,036.87	
					<u>1,645.37</u>			
Total - Agricultural					9,036.87			

## Schedule of Maintenance (cont'd) 2 of 2

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	equiv. ha.
<b>Non Agricultural Land</b>								
10	pt.NE1/4 L12	0.47	40-02701	J. Phillips	139.34	3.34	142.68	0.87
11	pt.SE1/4 L12	0.67	40-06403	W. & K. Apps		4.11	4.11	1.07
	pt.SE1/4 L12	0.70	40-06402	C. & B. Andrews		4.22	4.22	1.10
	pt.S3/4 L13	0.86	40-06701	A. Foster		5.15	5.15	1.26
Total Benefit					139.34	16.82	156.16	
Total Outlet					16.82			
Total - Non Agricultural					156.16			
<b>Public Lands: Roads</b>								
Petrolia Line		2.02		County of Lambton	258.99	99.16	358.15	8.08
Ebenezer Road		1.89		Municipality of Brooke Alvinston	440.28	31.08	471.36	5.67
Total Benefit					699.27	130.24	829.51	191.49
Total Outlet					130.24			
Total - Public Lands: Roads					829.51			
Total - Non Agricultural					156.16			
Total - Agricultural					9,036.87			
Total Assessment					\$10,022.54			

Johnson Drain  
Municipality of Brooke Alvinston  
December 6, 2021

## **SPECIFICATION OF WORK**

### **1. Scope of Work**

The work includes the replacement of 2 access culverts in Lot 11, Concession 10 in the Municipality of Brooke Alvinston with specifications for the maintenance and repair or replacement of Culvert No. 1 and provisions for future maintenance and repair of the channel.

### **2. General**

Each tenderer must inspect the site prior to submitting their tender and satisfy themselves by personal examination as to the local conditions that may be encountered during this project. The Contractor shall make allowance in the tender for any difficulties which they may encounter. Quantities or any information supplied by the Engineer is not guaranteed and is for reference only.

All work and materials shall be to the satisfaction of the Drainage Superintendent who may vary these specifications as to minor details but in no way decrease the proposed capacity of the drain.

The Contractor shall be responsible for the notification of all utilities prior to the start of construction.

### **3. Plans and Specifications**

These specifications shall apply and be part of the contract along with the General Specifications for Open Drains. This specification of work shall take precedence over all plans and general conditions pertaining to the contract. The Contractor shall provide all labour, equipment, and supervision necessary to complete the work as shown in the plans and described in these specifications. Any work not described in these specifications shall be completed according to the Ontario Provincial Standard Specifications and Standard Drawings.

Any reference to the owner contained in these contract documents shall refer to the Municipality of Brooke Alvinston or the Engineer authorized by the Municipality to act on its behalf.

#### **4. Health and Safety**

The Contractor at all times shall be responsible for health and safety on the worksite including ensuring that all employees wear suitable personal protective equipment including safety boots and hard hats.

The Contractor shall be responsible for traffic control as per the Ontario Traffic Manual Book 7 – Temporary Conditions (latest revision) when working on public road allowances. A copy of a traffic control plan shall be kept on site at all times. The Contractor shall maintain suitable barricades, warning lights, and temporary traffic notices, at his expense, in their proper position to protect the public both day and night. Flagmen are the responsibility of the Contractor when working on the road allowance and when entering or exiting a worksite onto a roadway.

The Contractor shall be responsible to ensure that all procedures are followed under the Occupational Health and Safety Act to ensure that work sites are safe and that accidents are prevented. In the event of a serious or recurring problem, a notice of noncompliance will be issued. The Contractor will be responsible for reacting immediately to any deficiency and correcting any potential health and safety risk. Continuous disregard for any requirement of the Occupational Health and Safety Act could be cause for the issuance of a stop work order or even termination of the contract.

He shall also ensure that only competent workmen are employed onsite and that appropriate training and certification is supplied to all employees.

#### **5. Workplace Safety and Insurance Board**

The Contractor hereby certifies that all employees and officers working on the project are covered by benefits provided by the Contractor. The WSIB clearance certificate must be furnished prior to the execution of the Contract and updated every 60 days.

#### **6. Removal of Existing Access Culverts**

The existing access culverts shall be removed in its entirety from the open channel. The steel culverts, excess material and the concrete rubble shall be disposed offsite at the expense of the Contractor. Suitable backfill may be stockpiled adjacent to the site for reuse during installation of the proposed culvert if directed by the Drainage Superintendent. Any broken concrete or rip rap (concrete bags) from the existing

structures that is approved may be reused as erosion protection in the immediate vicinity (within 1 metre) of the proposed culvert replacement. The broken concrete or rip rap must be placed over filter fabric flush with the existing channel sideslope. The area to receive any rip rap must be first excavated to allow the top of the rip rap to be placed flush with the existing channel sideslope. Large pieces of concrete, excavated material from the sideslope to accommodate erosion protection and any material not suitable for use shall be disposed offsite by the Contractor.

## **7. Installation of Access Culverts**

This item shall apply to the proposed access culvert replacements along the length of the drainage works:

### CULVERTS REPLACED UNDER EMERGENCY DESIGNATION

Pipe No. 2 – Wpt.NW1/4 Lot 11 (roll no. 40-022) consists of 10 metres of 1400 mm diameter boiler shell with no endwall material. The pipe had collapsed. The pipe has been replaced with 10 metres of 1600 mm diameter corrugated steel pipe with concrete block endwalls.

### CULVERTS TO BE REPLACED:

Pipe No. 3 – Ept. L11 (roll no. 40-025) consists of approximately 10 metres of 1600 mm diameter corrugated steel pipe and boiler shell. The pipe has failed at the joint between the corrugated steel pipe and boiler shell and the endwalls are falling. The pipe is to be replaced under this report with 10 metres of 1600 mm diameter corrugated steel pipe with concrete block endwalls.

### CULVERTS TO BE REPLACED IN THE FUTURE:

Pipe No. 1 – NE1/4 Lot 10 (roll no. 40-024) consists of 10 metres of 1650 mm diameter boiler shell. The pipe is in 4 sections with some material leaking in at the top. The pipe is in fair condition with rubble endwalls. The pipe is to be replaced in the future with 10 metres of 1600 mm diameter corrugated steel pipe with concrete block endwalls.

For access culverts less than or equal to 900 mm dia., the pipe shall be HDPE smooth wall pipe with manufactured couplings. All other pipe shall be aluminized corrugated steel pipe with a minimum wall thickness of 2.8mm in all cases. All corrugation profiles shall be of helical lockseam manufacture using 68 x 13mm corrugations for 1600mm dia. pipe and smaller and 125 x 25mm corrugations for 1800mm dia. pipe and larger. Pipe

with 125 x 25mm corrugations shall be used if 68 x 13mm corrugations are not available. Future culvert replacements shall be to the same specifications.

The proposed access culverts shall be installed in the same general location as the existing access culverts. The culvert shall be installed with the invert 10% (minimum 150mm) below the proposed channel bottom elevation and to grade shown on the Profile.

If an owner requests a longer culvert than that specified above, please refer to the report. The culvert lengths are based on using concrete block walls. If rip rap ends are to be utilized in the future, the culverts may be lengthened to accommodate the sloped ends (1.5:1.0).

The culvert may be moved upstream or downstream as necessary to avoid existing tile outlets. If they cannot be avoided the pipes shall be extended upstream or downstream of the proposed culvert and shall be done with non-perforated PE agricultural tubing with a manufactured coupling, elbow and rodent grate. Any tile outlets extended as a result of extra length requested by an owner shall be extended at the owner's expense. The culvert shall be installed with the invert set 10% below the design channel bottom (minimum 150mm) and to grade shown on the Profile.

The bottom of the excavation shall be excavated to the required depth with any over excavation backfilled with granular material or drainage stone. When the pipe has been installed to the proper grade and depth, the excavation shall be backfilled with granular or drainage stone from the bottom of the excavation to the springline of the pipe. Care shall be taken to ensure that the backfill on either side of the culvert does not differ by more than 300 mm so that the pipe is not displaced. The access culverts shall be backfilled from the springline to finished grade with granular material to within 100mm of finished grade. The top 100mm for access culverts and 200mm for road culverts shall be backfilled with compacted granular "A" material to finished grade which shall extend from endwall to endwall.

All backfill shall be free from deleterious material. All granular bedding material shall be mechanically compacted to 95% modified standard proctor density. All backfill material above the springline shall be mechanically compacted using appropriate compaction equipment. The Contractor shall supply any extra backfill material required above the springline. The granular "A" for the road culverts shall be compacted to 98% modified standard proctor density.

End protection shall consist of concrete blocks with dimensions of approx. 600mm x 600mm x 1200mm, 600mm x 600mm x 2400mm or 300mm x 600mm x 1200mm as required. The top of the culvert shall govern block elevation. The correct block shall be set with the top of the block equal to the top of the culvert. The blocks shall be set at each

end of the culvert so that each row of blocks will be offset approx. 100mm from the row below. The bottom row shall consist of one block placed parallel to the culvert. The blocks shall be imbedded a minimum of 300mm into each bank and shall extend into the drain bottom to match the pipe invert or below.

The blocks shall be placed over a layer of filter fabric (Terrafix 270R or approved equal). The culvert shall be backfilled in conjunction with the placement of the blocks. The gaps between the culvert and the blocks shall be filled with concrete cinder blocks/bricks and mortar to give the endwall a finished appearance.

If rip rap ends are to be used, the pipes shall be lengthened to accommodate the travel width plus minimum 1.5:1 sideslopes. The rip rap shall consist of 100 mm x 250 mm quarry stone or approved equal. The area to receive the rip rap shall be graded to a depth of 400mm below finished grade. Filter fabric (Terrafix 250R or approved equal) shall then be placed with any joints overlapped a minimum 600mm. The quarry stone shall then be placed with the smaller pieces placed in the gaps and voids to give it a uniform appearance.

## **8. Silt Fence**

The Contractor shall maintain a dry working area during construction. The Contractor shall install a silt fence downstream of the work area. The silt fence shall consist of filter fabric or manufactured silt fence supported with posts (OPSD 219.110). The silt fence shall remain in place until construction is complete. Any sediment that has collected upstream of the silt fence shall be removed prior to the removal of the silt fence.

## **9. Excavation of Open Channel (future maintenance)**

The open channel shall be excavated and maintained to the depths and grades as per the profile and drawings as contained in this engineer's report. The channel shall be excavated to the proper depth using a laser or similar approved device with a labourer onsite to ensure correctness of grade and to confirm location of tile ends.

For future maintenance and repair, the excavated material shall be cast on private lands adjacent to the channel at least 1.5 metres clear of the bank. Generally, it is placed on the same side as per previous cleanouts. The individual owner may designate which side of the channel that he wants the excavated material levelled.

Excavated material shall not be placed in low runs or swales outletting surface water to the channel. The excavated material shall be levelled to a maximum depth of 100mm and left in a condition suitable for cultivation. All high spots above grade shall be removed.

The sediment shall be removed leaving a rounded bottom with the intent not to undercut the existing sideslopes.

#### **10. Brushing (future maintenance)**

All brush, trees, woody vegetation, etc. shall be removed from the sideslopes of the existing channel within 1.5 metres of the top of the bank. Other brush and trees may be removed from the side the equipment is operating to allow access for the equipment. Trees and brush in the channel bottom shall be removed in their entirety including stumps and disposed offsite. Trees and brush on the sideslopes shall be close cut. A stump killer pesticide manufactured for the purpose shall be applied to stumps according to manufacturer's specifications.

It is recommended that a mechanical grinder attached to an excavator be used for the removal of brush and trees. Any brush and trees too large to grind shall be close cut with the logs and brush disposed offsite by the Contractor. The Contractor shall be responsible for obtaining all necessary permits for any disposal sites.

Certain trees may be left in place at the direction of the Drainage Superintendent. Any trees to be salvaged by the individual Owners shall be removed by the Owners with all resulting brush and branches cleaned up prior to the start of construction. If the Contractor agrees to remove any trees and set them aside for an Owner, the Owner will be responsible for any cleanup as above.

#### **11. Environmental Considerations**

The Contractor shall take care to adhere to the following considerations.

- Operate machinery in a manner that minimizes disturbance to the banks of the watercourse.
- Erosion and sediment control measures must be installed prior to construction to prevent sediment from entering the water body.
- Material shall not be in areas regulated by the Conservation Authority or Ministry of Natural Resources.
- All granular and erosion control materials shall be stockpiled a minimum of 1.5 metres from the top of the bank or excavation. Material shall not be placed in surface water runs or open inlets that enter the channel.



- All activities, including maintenance procedures, shall be controlled to prevent the entry of petroleum products, debris, rubble, concrete, or other deleterious substances into the water. Vehicle and equipment refuelling and maintenance shall be conducted away from the channel, any surface water runs, or open inlets. All waste materials shall be stockpiled well back from the top of the bank and all surface water runs and open inlets that enter the drain.
- When possible, all construction within the open channel shall be carried out during periods of low flow or in dry conditions.
- The Contractor shall conduct regular inspections and maintain erosion and sediment control measures and structures during the course of construction.
- The Contractor shall repair erosion and sediment control measures and structures if damage occurs.
- The Contractor shall remove non-biodegradable erosion and sediment control materials once site is stabilized.
- Remove all construction materials from site upon project completion.

## **12. Benchmarks**

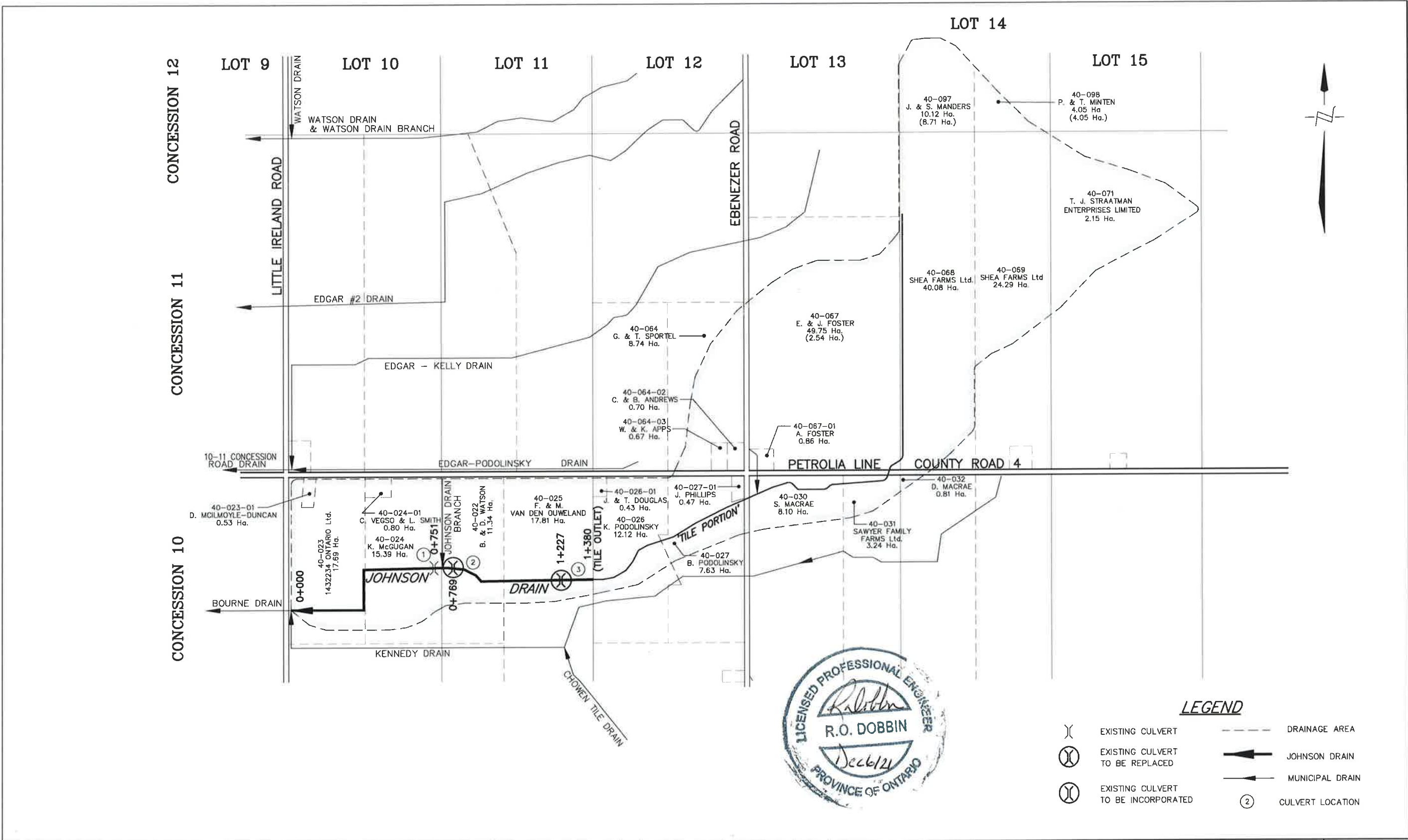
The benchmarks are based on geodetic elevations. Elevations are available at the culvert locations shown on the profile drawings. Where these elevations are on existing structures to be replaced, they shall be moved prior to the removal of the culverts.

## **13. Miscellaneous**

Any subsurface drains encountered upstream of the culvert that conflict with the proposed culvert shall be extended to an outlet to the open channel to the approval of the Drainage Superintendent.

Any fences that must be removed to allow construction or maintenance shall be reinstalled by the Contractor using the existing materials.

It will be the owner's responsibility to mark all tile and tile mains prior to maintenance being carried out.



- LEGEND**
- EXISTING CULVERT
  - EXISTING CULVERT TO BE REPLACED
  - EXISTING CULVERT TO BE INCORPORATED
  - DRAINAGE AREA
  - JOHNSON DRAIN
  - MUNICIPAL DRAIN
  - CULVERT LOCATION

<p>4218 Oil Heritage Road Petrolia Ontario, N0N 1R0 Phone: (519) 882-0032 Fax: (519) 882-2233</p> <p>DRAWING NAME: Johnson Drain Plan</p> <p>PROJECT No. 2020-1166</p>	APPROVED	NO.	REVISIONS	DATE	BY	<p><b>MUNICIPALITY of BROOKE-ALVINSTON</b></p> <p><b>JOHNSON DRAIN PLAN</b></p>	<p><b>1 OF 4</b></p>
	R. DOBBIN						
	CHECKED	1	FINAL REPORT	DEC. 6, 2021	CS		
	D. MOORES						
	DRAWN	SCALE: 1:15,000					
	C. SAUNDERS	0 400m					

Last Updated: December 6, 2021

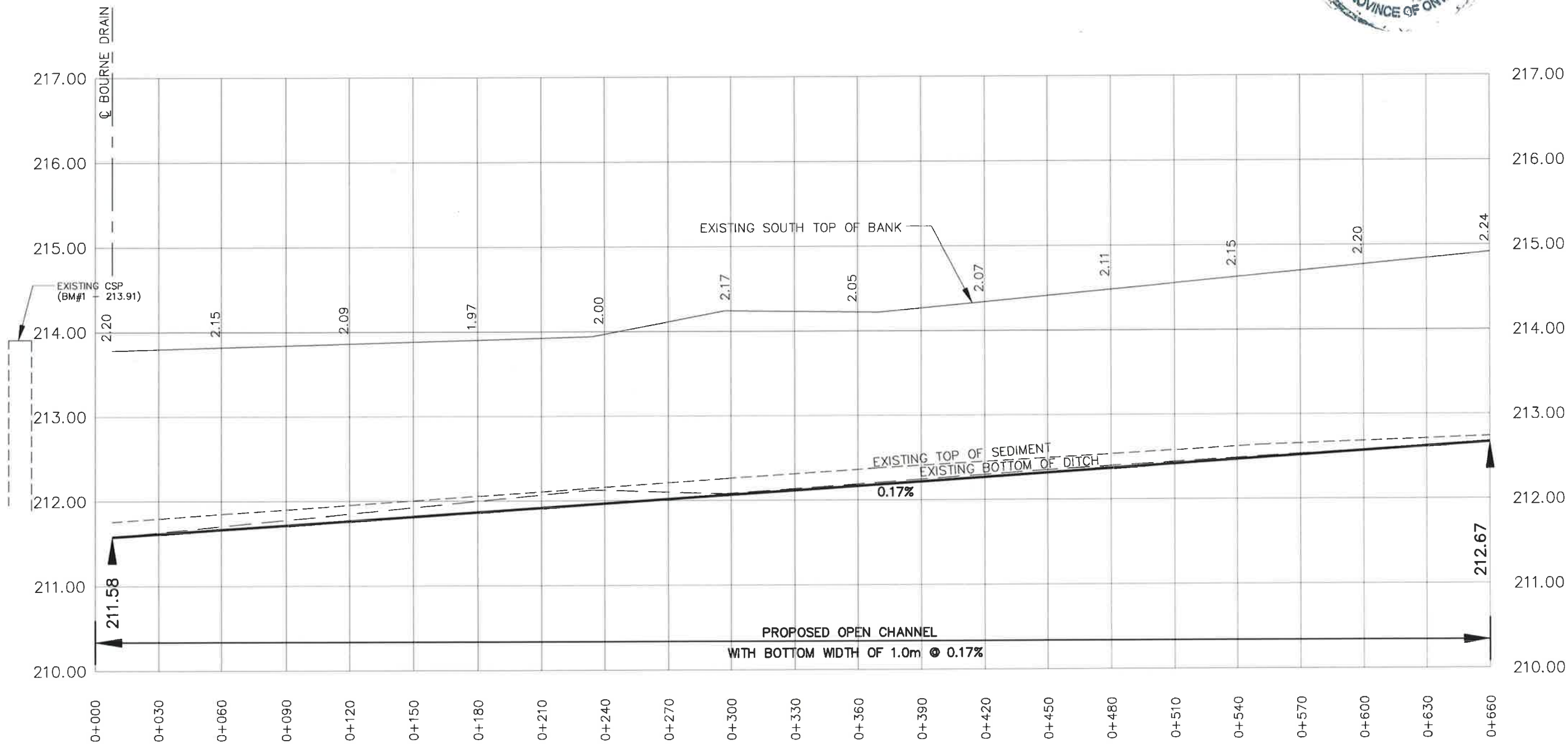
GENERAL NOTES

1. BENCHMARK No.1 ELEV. 213.91

TOP EAST END OF EXISTING

CSP CROSSING LITTLE IRELAND RD.
2. UPPER NUMBERS ARE DEPTH FROM

EXISTING TOP OF BANK TO BOTTOM OF NEW CHANNEL.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Johnson Drain Profile 1

PROJECT No.  
2020-1166

APPROVED  
R. DOBBIN

CHECKED  
D. MOORES

DRAWN  
C. SAUNDERS

NO.	REVISIONS	DATE	BY
1	FINAL REPORT	DEC. 6, 2021	CS

SCALE: 1:2,000  
0 20 40 60m

MUNICIPALITY of BROOKE - ALVINSTON  
JOHNSON DRAIN  
PROFILE

2  
OF 4

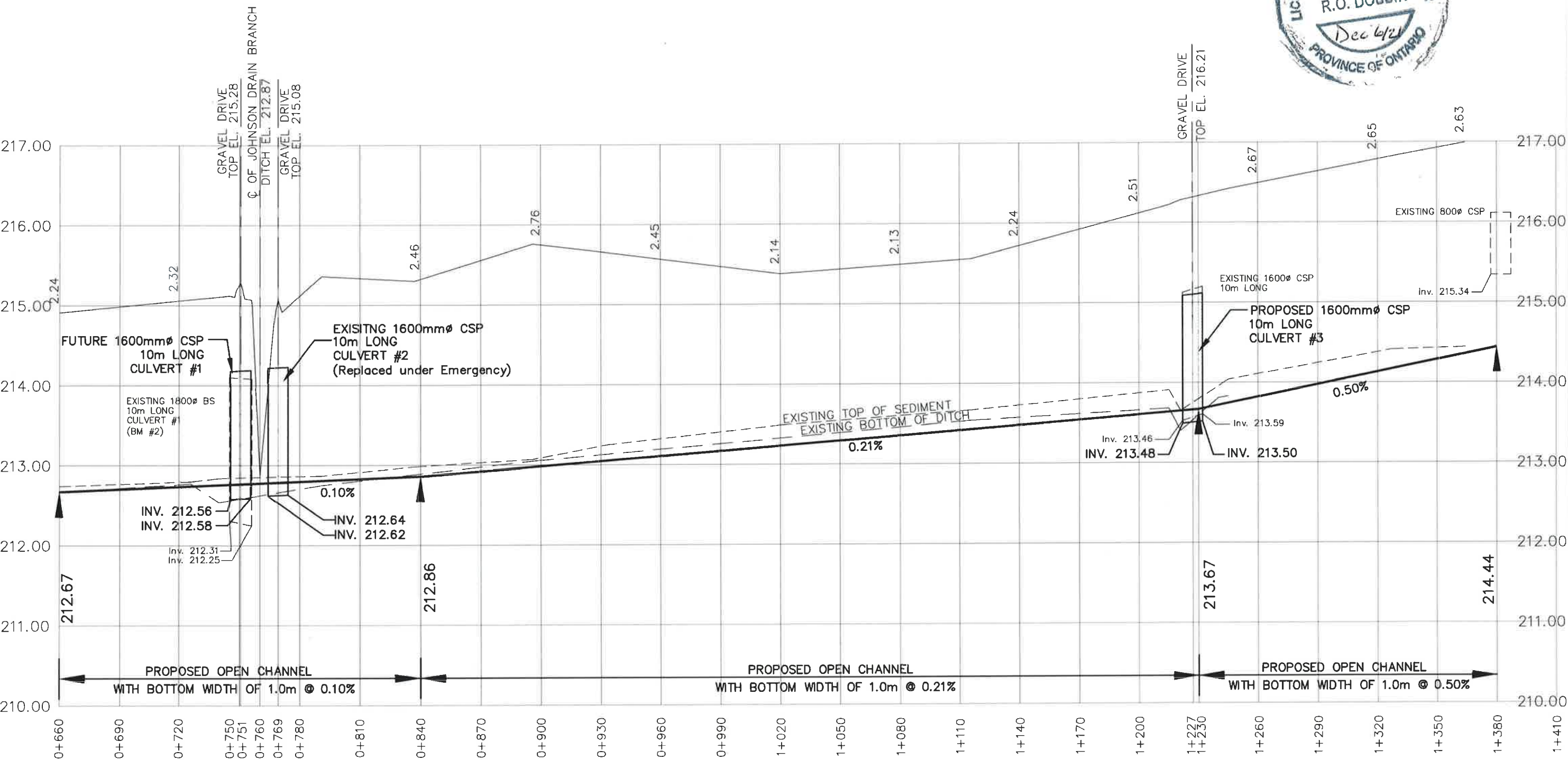
Last Updated: December 6, 2021

GENERAL NOTES

1. BENCHMARK No.1 ELEV. 213.91  
TOP EAST END OF EXISTING  
CSP CROSSING LITTLE IRELAND RD.

BENCHMARK No.2 ELEV. 214.06  
TOP EAST END OF EXISTING  
CSP AT STATION 0+751 (GRAVEL DRIVE)

2. UPPER NUMBERS ARE DEPTH FROM  
EXISTING TOP OF BANK TO BOTTOM OF NEW CHANNEL.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Johnson Drain Profile 2

PROJECT No.  
2020-1166

APPROVED	NO.	REVISIONS	DATE	BY
R. DOBBIN				
CHECKED	1	FINAL REPORT	DEC. 6, 2021	CS
D. MOORES				
DRAWN				
C. SAUNDERS				

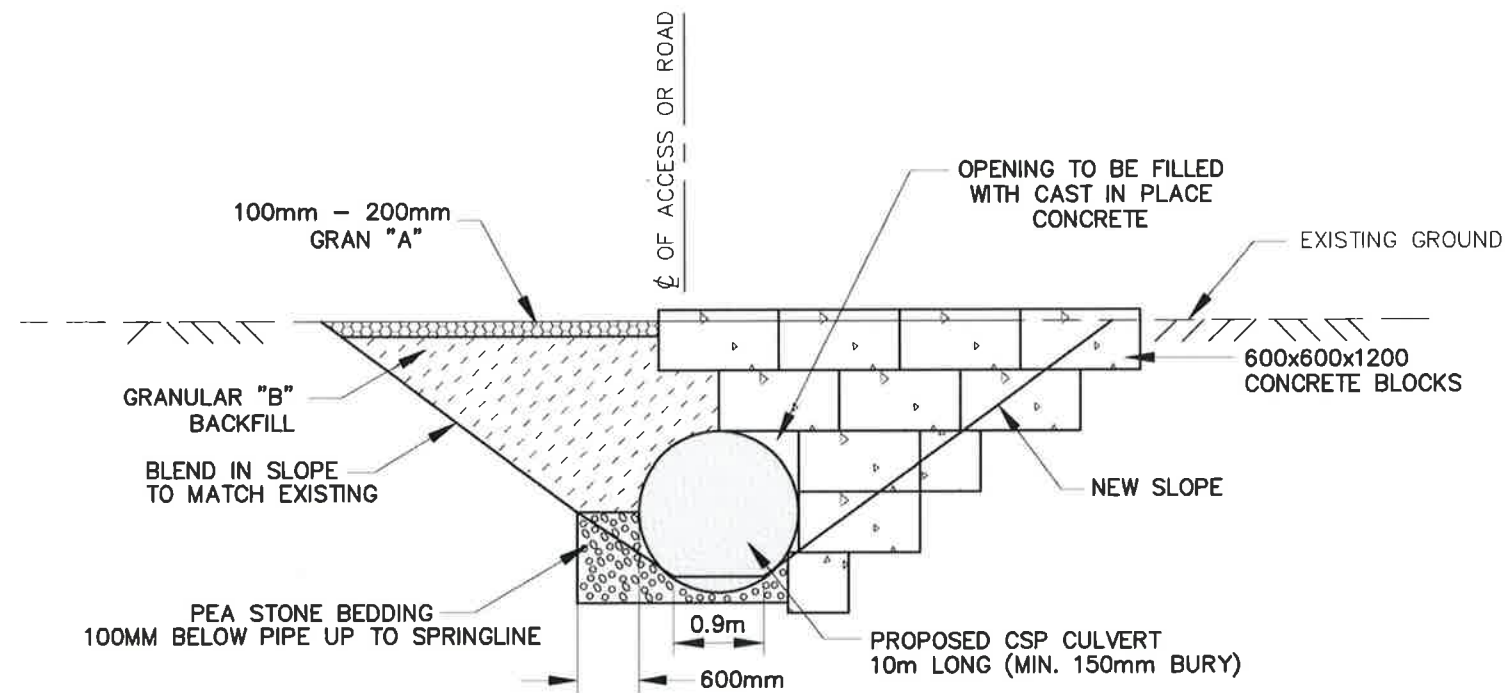
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MUNICIPALITY of BROOKE - ALVINSTON  
JOHNSON DRAIN  
PROFILE

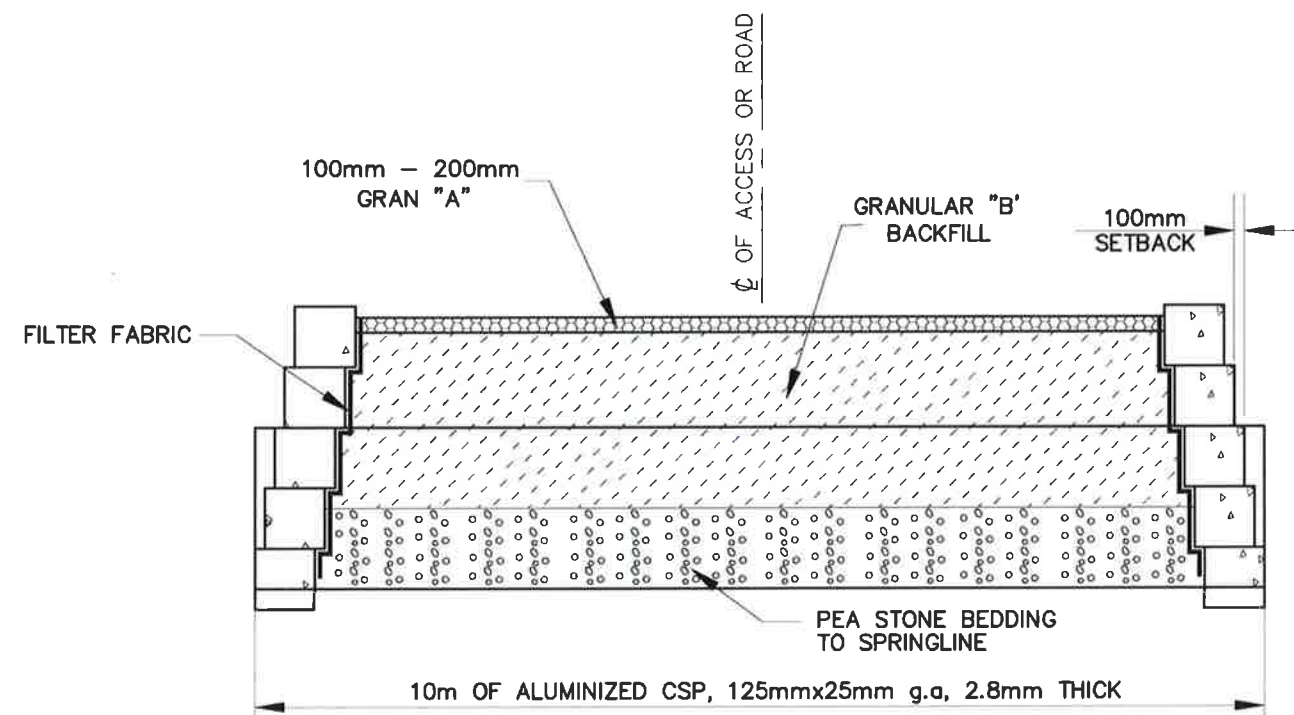
3  
OF 4

Last Updated: December 6, 2021





**PROPOSED PIPE END SECTION**



**PROPOSED CROSS-SECTION**

**BENCHMARKS:**

1. TOP EAST END OF EXISTING ROAD CSP AT LITTLE IRELAND ROAD. 213.91m
2. TOP EAST END OF EXISTING CSP AT STATION 0+751. 214.06m

**GENERAL NOTES:**

1. ALL CULVERTS SHALL BE ALUMINIZED CSP 125mm X 25mm CORRUGATIONS, 2.8mm THICKNESS.
2. REFER TO SPECIFICATIONS FOR CULVERT SIZES AND LENGTHS.
3. BACKFILL MATERIAL TO BE GRANULAR MATERIAL UNLESS OTHERWISE SPECIFIED.
4. CONCRETE BLOCK ENDWALLS TO MATCH EXISTING GROUND.
5. CONCRETE BLOCKS ARE TO BE SET TO BOTTOM OF PIPE OR EMBEDDED TO ALLOW BLOCKS TO SIT LEVEL WITH THE TOP OF PIPE.
6. TOP ROW OF CONCRETE BLOCKS MAY BE 300MM HIGH IN ORDER TO MATCH FINISH GRADE.



DRAWING NAME:  
Johnson Drain Typical Culvert Details

4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

PROJECT No.  
2020-1166

APPROVED  
R. DOBBIN

CHECKED  
R. DOBBIN

DRAWN  
D. MOORES

NO.	REVISIONS	DATE	BY
1	FINAL REPORT	DEC. 6, 2021	DMO

SCALE 1:75

**MUNICIPALITY of BROOKE-ALVINSTON**  
**JOHNSON DRAIN**  
**TYPICAL CULVERT DETAILS**

**4**  
**OF 4**

**ENCLOSURE**

Johnson Drain  
Municipality of Brooke Alvinston  
December 6, 2021

1 of 2

# ESTIMATED NET ASSESSMENT

Conc.	Lot or Part	Roll No.	Owner	Total	Less Grant	Less Allow.	Net Assess.
Agricultural Land							
10	NW1/4 L10	40-023	1432234 Ontario Limited	95.00	31.67		63.33
	NE1/4 L10	40-024	K. McGugan	82.00	27.33		54.67
	Wpt.NW1/4 L11	40-022	B. & D. Watson	12,886.00	4,295.33	458.00	8,132.67
	Ept. L11	40-025	F. & M. Van Den Ouweland	14,002.00	4,667.33	546.00	8,788.67
	NW1/4 L12	40-026	K. Podolinsky	1,520.00	506.67		1,013.33
	NE1/4 L12	40-027	B. Podolinsky	957.00	319.00		638.00
	NWpt. L13	40-030	S. MacRae	1,016.00	338.67		677.33
	NEpt. L13	40-031	Sawyer Family Farms Ltd.	406.00	135.33		270.67
	W1/2 L14	40-032	D. MacRae	102.00	34.00		68.00
11	SE1/4 L12	40-064	G. & T. Sportel	1,096.00	365.33		730.67
	S3/4 L13	40-067	E. & J. Foster	6,079.00	2,026.33		4,052.67
	W1/2 L14	40-068	Shea Farms Ltd.	5,026.00	1,675.33		3,350.67
	E1/2 L14	40-069	Shea Farms Ltd.	3,046.00	1,015.33		2,030.67
	L14	40-071	T. J. straatman Enterprises Limited	1,524.00	508.00		1,016.00
12	W1/2 L14	40-097	J. & S. Manders	724.00	241.33		482.67
	E1/2 L14	40-098	P. & T. Minten	1,835.00	611.67		1,223.33

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Estimated Net Assessment (cont'd)					
Conc.	Lot or Part	Roll No.	Owner	Benefit	Outlet Total
Non Agricultural Land					
10	pt.NW1/4 L10	40-02301	D. McIlmoyle-Duncan	117.00	117.00
	pt.NE1/4 L10	40-02401	C. Vegso & L. Smith	150.00	150.00
	pt.NW1/4 L12	40-02601	J. & T. Douglas	104.00	104.00
	pt.NE1/4 L12	40-02701	J. Phillips	109.00	109.00
12	pt.SE1/4 L12	40-06403	W. & K. Apps	134.00	134.00
	pt.SE1/4 L12	40-06402	C. & B. Andrews	138.00	138.00
	pt.S3/4 L13	40-06701	A. Foster	158.00	158.00
Public Lands: Roads					
Petrolia Line			County of Lambton	1,013.00	1,013.00
Ebenezer Road			Municipality of Brooke Alvinston	572.00	572.00
Totals				52,891.00	1,004.00 35,088.33





4218 Oil Heritage Road  
 Petrolia, Ontario, N0N 1R0  
 Phone: (519) 882-0032 Fax: (519) 882-2233  
 www.dobbineng.com

November 30, 2021

The Mayor and Council  
 Township of Brooke-Alvinston  
 P. O. Box 28  
 3236 River Street  
 Alvinston, Ontario  
 N0N 1A0

**Re: Johnston-Symington Drain**

In accordance with your instructions, I have undertaken an examination of the Johnston-Symington Drain with regards to making drainage improvements to the Johnston-Symington Drain located in Lot 1, Concession 14 and Lot 1, Gore Concession in the Municipality of Brooke-Alvinston. The work will consist of replacing access culverts along the drain, along with open channel work. The course of the work has been surveyed with elevations taken as necessary.

Authorization under the Drainage Act

This is an Engineers Report that has been prepared under Section 78 of the Drainage Act as per the request of an affected owner.

Under section 78 of the Drainage Act, Council may undertake and complete the maintenance or repair of any drainage works constructed under a bylaw passed under this Act or its predecessor. Section 78 is to be used where it is considered expedient to change the course of the drainage works, or to make a new outlet for the whole or any part of the drainage works, or to construct a tile drain under the bed of the whole or any part of the drainage works as ancillary thereto, or to construct, reconstruct or extend embankments, walls, dykes, dams, reservoirs, bridges, pumping stations, or other protective works as ancillary to the drainage works, or to otherwise improve, extend to an outlet or alter the drainage works or to cover the whole or any part of it, or to consolidate two or more drainage works.

The access culvert located in S $\frac{1}{4}$  pt. Lot 1, Concession 14 was replaced under Section 124 of the Drainage Act. Under Section 124, the Minister declares that an emergency exists and the Council of the local municipality authorizes the work to be completed before obtaining and adopting an engineer's report.

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### Existing Drainage

The Johnston-Symington Drain consists of an open channel that outlets to the Sisson-Parker Drain on the east side of Forest Road. The drainage works consists of a channel that extends upstream in a northerly direction for 670 meters along the east side of Forest Road.

The Johnston-Symington Drain provides outlet for the lands located in Lot 1 of Concession 14 and the Gore Concession.

The Johnston-Symington Drain was last improved under an Engineers Report dated January 29, 1964. At this time the open channel was constructed along the east side of Forest Road in Lot 1 of the Gore Concession and Concession 14.

### Discussion

On February 18, 2021 the owner of the S¼ pt. Lot 1 Concession 14 submitted a request for a culvert replacement. Brooke-Alvinston Council accepted the request and instructed the engineer to prepare an engineers report related to the culvert. As this culvert was the only access to the property and it was deemed unsafe for passage, a letter was sent to the Minister of Agricultural for approval to replace the culvert under Section 124 – Emergency Designation prior to the Drainage Act process. Minister approval was received on March 15, 2021 and the culvert was subsequently replaced.

The culvert located in the N½ S½ Lot 1, Concession 14 (roll number 40-137) was installed privately and has never been incorporated as part of the drainage works for the Johnston-Symington Drain. The culvert is in poor shape and should be replaced, but the landowner has requested it not be replaced at this time. As the culvert is located at the top end of the drain and not causing any affect on the drainage in the Johnston-Symington Drain, the culvert can remain private and the responsibility of the landowner.

### Onsite Meeting

An onsite meeting was held on June 22, 2021. At this meeting, it was explained to those in attendance that the culvert in the S¼ pt. Lot 1, Concession 14 was replaced under emergency designation. Discussion was held that the drain required cleanout and that all other access culverts along the drain would be surveyed to determine condition. Any access culverts in poor shape would be replaced.

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### Recommendations

It is therefore recommended that the following work be carried out:

1. The existing access culvert replaced under emergency designation in the S¼ Lot 1, Concession 14 shall be incorporated into the drain;
2. The access culvert located in the pt. Lot 1, Gore Concession shall be replaced;
3. The access culvert located in the N½ S½ Lot 1, Concession 14 shall remain a private culvert; and
4. The entire open channel shall be improved including brushing and grade improvements.

### Design

Access culverts shall be sized to accommodate a 1 in 2-year storm in accordance with engineering principles.

### Estimate of Cost

It is recommended that the work be carried out in accordance with the accompanying Specification of Work and the Profile that form part of this Report. There has been prepared an estimate of cost in the amount of \$47,700.00 including engineering of the report, attending the Meeting to Consider, and attending the Court of Revision, and an estimate for tendering, contract administration and inspection.

A Plan has been prepared showing the location of the work and the approximate drainage area. A profile is included showing depths and grades of the proposed work.

### Assessment

As per the Drainage Act, section 21, the Engineer in his report shall assess for benefit and outlet liability.

Lands, roads, buildings, utilities, or other structures that are increased in value or are more easily maintained as a result of the construction, improvement, maintenance, or repair of a drainage works may be assessed for benefit. The Engineer may assess for special benefit any lands for which special benefits have been provided by the drainage works. (Section 22)

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Lands and roads that use a drainage works as an outlet, or for which, when the drainage works is constructed or improved, an improved outlet is provided either directly or indirectly through any medium of any other drainage works or of a swale, ravine, creek or watercourse, may be assessed for outlet. The assessment for outlet shall be based upon volume and rate of flow of the water artificially caused to flow into the drainage works from the lands and roads liable for such assessments. (Section 23)

The Engineer may assess for special benefit any lands for which special benefits have been provided by the drainage works. (Section 24)

A Schedule of Assessment for the lands and roads affected by the work and therefore liable for the cost thereof will be prepared as per the Drainage Act. Also, assessments may be made against any public utility or road authority, as per Section 26 of the

Drainage Act, for any increased cost for the removal or relocation of any of its facilities and plant that may be necessitated by the construction or maintenance of the drainage works. Items to be assessed under Section 26, as specified, shall be tendered separately with the actual cost plus a portion of the engineering (25% of the construction cost).

The estimated cost of the drainage works has been assessed in the following manner:

1. The channel improvements have been generally been assessed with 15% assessed as cut-off benefit to the properties on the west side of Forest Road in the Township of Enniskillen, 25% benefit to the road authority, 40% benefit to the landowners directly connected to the drain, and the remaining costs have been assessed as outlet assessment to the upstream lands and roads based on equivalent hectares.
2. The access culverts along the drain have generally been assessed with 60% of the average estimated culvert cost applied as a benefit assessment to the owner of the property, 17% assessed as benefit assessment to the roads, and the remainder of the cost has been assessed as outlet assessment to upstream lands and roads based on equivalent hectares.

#### Allowances

Under section 30 of the Drainage Act, the Engineer shall determine the amount to be paid to persons entitled thereto to damage, if any, to ornamental trees, fences, land, and crops occasioned by the disposal of material removed from a drainage works. This shall be considered an allowance for damages.

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Allowances have been made, where appropriate, as per section 30 of the Drainage Act for damages to lands and crops. Allowances for crop loss are based on \$2,000.00 per hectare for the first year and \$1,000.00 for the second year (\$3,000.00 per hectare total).

#### Access and Working Area

Access for culvert works and drain improvements shall be from Forest Road using the existing access laneways. All works shall be restricted to the width of the culvert including 15 meters on each side. For channel improvements, all works shall be restricted to east side of the drain measuring 15 meters from the top of the drain bank.

The working area for future maintenance of the open channel be restricted to a width of 15 metres as measured from the top of the bank on the east side of the drain. The working area for the maintenance of access culverts shall be restricted to a width of 15 metres on either side of the culvert and 15 metres from the top of both banks.

#### Drain Classification and Authorizations

The Johnston-Symington Drain is a class “F” drain for the entire length according to the Ontario Ministry of Agriculture, Food and Rural Affairs Mapping.

Class “F” drains are intermittent or ephemeral (dry for more than two consecutive months).

The proposed work shall be carried out during low flows in the channel. The work area is to be maintained in a dry condition during construction by the Contractor.

A permit for these works is required by the St. Clair Conservations Authority.

#### Agricultural Grant

It is recommended that application for subsidy be made for eligible agricultural properties. Any assessments against non agricultural properties are shown separately in the Schedule of Assessment.

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### Restrictions

No trees and shrubs shall be planted nor shall permanent structures be erected within 10 metres of either side of the proposed drain without prior written permission of Council.

All existing subsurface drainage shall be connected to the drain is subject to the provisions of section 83 of the Drainage Act under which pollution of drains is prohibited. Attention is also drawn to sections 80 and 82 of the Drainage Act, which refer to the removal of obstructions in a drain and damage caused to a drain.

### Existing Private Drainage

All existing subsurface drainage encountered during excavation of the open channel shall be maintained in existing condition. Landowners shall be responsible to mark all subsurface drains from his property. Surface drains and swales shall be left open. The Contractor shall be responsible for damage to subsurface drains marked by the landowners.

It is recommended that 300 mm of freeboard be provided for tile drain outlets to the open channel. This Report will attempt to provide the recommended freeboard but existing access culvert depths may not allow sufficient grade improvements to provide 300 mm.

### Maintenance

The open channel shall be maintained and repaired in accordance with the specifications contained within this engineer's report in accordance with the plan and profile and assessed out in the same proportions as contained in the channel section of the Schedule of Assessment.

The access culverts located along the length of the drain shall be maintained and repaired with 60% of the costs assessed to the benefitting property owner, 17% assessed as benefit to the road authority and the remainder of the costs shall be assessed as an outlet to upstream properties pro rata with the equivalent hectares contained in the Schedule of Assessment.

If an owner requests an additional length of culvert beyond that specified in this report, the extra cost shall be borne by the owner making the request including the future maintenance and repair. Each property is allowed one access culvert for each municipal drain with any second culvert on the property maintained and repaired 100% by the owner.

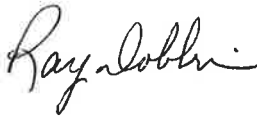
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The access culvert located in the N½ S½ Lot 1, Concession 14 (roll number 40-137) shall remain a private culvert. If it requires replacement in the future, it shall be replaced by the owner and at 100% the cost to the landowner of that property. If the landowner wishes to have the culvert replaced using the Drainage Act, a request can be made to the Municipality and an Engineer appointed to prepare a report under Section 78.

These above conditions will apply unless otherwise altered under provisions of the Drainage Act:

All of the above is submitted for your consideration.

Yours truly,



Ray Dobbin, P.Eng.



Johnston-Symington Drain  
Municipality of Brooke-Alvinston  
November 30, 2021

**ALLOWANCES**

Allowances have been made as per Sections 30 of the Drainage Act for damages to lands and crops.

Conc.	Lot or part	Roll No.	Owner	Section 30	Total
Gore	Pt. Lot 1	40-135	D. & C. Johnson	1,140.00	1,140.00
14	S 1/4 Pt. Lot 1	40-136	H. Symington & B. Wygengangs	1,490.00	1,490.00
14	N1/2 S1/2 Pt. Lot 1	40-137	P. & R. Leyten	390.00	390.00
TOTAL ALLOWANCES				\$3,020.00	\$3,020.00



Johnston-Symington Drain  
Municipality of Brooke-Alvinston  
November 30, 2021

### Estimate of Cost

To incorporate the access culvert in the S1/4 Lot 1, Concession 14, replace the access culvert in part Lot 1, Gore Concession and carry out improvements to the channel.

Allowances 3,020.00

	Quantity	Unit	Unit Cost	Total
Pre-Construction Meeting	1	LS	400.00	400.00
Benchmark Loop	1	LS	250.00	250.00
Brushing	670	m	2.00	1,340.00
Excavation of Open Channel	670	m	3.00	2,010.00
Level Excavated Material	670	m	1.00	670.00
Environmental Considerations	1	LS	300.00	300.00
Culvert No. 1				
Culvert Removal	1	LS	800.00	800.00
Supply and Installation of 900mmø HDPE c/w				
Bedding and backfill placement	10	m	750.00	7,500.00
Supply Granular "B" Backfill	120	t	20.00	2,400.00
Supply Granular "A" Driveway	22	t	30.00	660.00
Concrete Block Endwalls	30	ea.	100.00	3,000.00
Culvert No. 2 (Installed under Emergency Designation)	10.0	m	1,105.00	11,050.00
Contingency				2,000.00
Sub Total				35,400.00
Engineering				7,630.00
Inspection and Contract Admin.				3,500.00
SCRCA Fee				400.00
Total Estimate excluding HST				46,930.00
Non-Recoverable HST (1.76%)				770.00
<b>Total Estimate</b>				<b>\$47,700.00</b>

# SCHEDULE OF ASSESSMENT

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Culverts		Channel		Total	Equiv. Ha
					Benefit	Outlet	Benefit	Outlet		
Municipality of Brooke-Alvinston										
Agricultural Lands										
Gore Pt. Lot 1		2.80	40-135	D. & C. Johnson	11,118.00		1,607.00		12,725.00	2.80
14 S 1/4 Pt. Lot 1		20.23	40-136	H. Symington & B. Wyergangs	11,118.00	7,204.00	2,103.00	1,208.00	21,633.00	18.11
14 N1/2 S1/2 Pt. Lot 1		2.43	40-137	P. & R. Leyten	-	1,213.00	546.00	868.00	2,627.00	2.05
					22,236.00	8,417.00	4,256.00	2,076.00	36,985.00	
					Total Benefit					
					Total Outlet					
					Total Agricultural Lands					
					36,985.00					
Public Lands: Roads										
Forest Road		0.09		County of Lambton	6,300.00	107.00	2,660.00	52.00	9,119.00	0.36
					6,300.00	107.00	2,660.00	52.00	9,119.00	
					Total Benefit					
					Total Outlet					
					Total Municipal Lands					
					Total Agricultural Lands					
					46,104.00					

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Culverts		Channel		Total	Equiv. Ha
					Benefit	Outlet	Benefit	Outlet		
Township of Enniskillen										
Agricultural Lands										
14	S Pt. Lot 31	cutoff	160-036	L. & M. O'Hara			1,108.00		1,108.00	0.00
14	Ctr. Pt. Lot 31	cutoff	160-034	J. Symington			488.00		488.00	0.00
Total Benefit							1,596.00		1,596.00	
Total Outlet										
Total-Township of Enniskillen							1,596.00			
Total-Municipality of Brooke-Alvinston							46,104.00			
Total Assessment							\$47,700.00			

Johnston-Symington Drain  
Municipality of Brooke-Alvinston  
November 30, 2021

## **SPECIFICATION OF WORK**

### **1. Scope of Work**

The work to be included in this specification includes the incorporation of an access culvert in the S¼ Lot 1, Concession 14 replaced under an emergency designation; the replacement of an access culvert in the Lot 1, Gore Concession; and 670 meters of open channel improvements involving brushing and grade improvements on the Johnston-Symington Drain in the Municipality of Brooke-Alvinston.

### **2. General**

Each tenderer must inspect the site prior to submitting his tender and satisfy themselves by personal examination as to the local conditions that may be encountered during this project. They shall make allowance in his tender for any difficulties which they may encounter. Quantities or any information supplied by the Engineer is not guaranteed and is for reference only.

All work and materials shall be to the satisfaction of the Drainage Superintendent who may vary these specifications as to minor details but in no way decrease the proposed capacity of the drain.

The Contractor shall be responsible for the notification of all utilities and pipeline companies prior to the start of construction.

### **3. Access and Working Area**

Access for culvert works and drain improvements shall be from Forest Road using the existing access laneways. All works shall be restricted to the width of the culvert including 15 meters on each side. For channel improvements all works shall be restricted to east side of the drain measuring 15 meters from the top of the drain bank.

### **4. Plans and Specifications**

These specifications shall apply and be part of the contract along with the General Specifications for Closed Drains and the General Specifications for Open Drains. This specification of work shall take precedence over all plans and general conditions pertaining to the contract. The Contractor shall provide all labour, equipment, and supervision necessary to complete the work as shown in the plans and described in these

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specifications. Any work not described in these specifications shall be completed according to the Ontario Provincial Standard Specifications and Standard Drawings.

Any reference to the landowner contained in these contract documents shall refer to the Municipality of Brooke-Alvinston or the engineer authorized by the Municipality to act on its behalf.

## **5. Health and Safety**

The Contractor at all times shall be responsible for health and safety on the worksite including ensuring that all employees wear suitable personal protective equipment including safety boots and hard hats.

The Contractor shall be responsible for traffic control as per the Ontario Traffic Manual Book 7 – Temporary Conditions when working on public road allowances. A copy of a traffic control plan shall be kept on site at all times. The Contractor shall maintain suitable barricades, warning lights, and temporary traffic notices, at his expense, in their proper position to protect the public both day and night. Flagmen are the responsibility of the Contractor when working on the road allowance and when entering or exiting a worksite onto a roadway.

The Contractor shall be responsible to ensure that all procedures are followed under the Occupational Health and Safety Act to ensure that work sites are safe and that accidents are prevented. In the event of a serious or recurring problem, a notice of non-compliance will be issued. The Contractor will be responsible for reacting immediately to any deficiency and correcting any potential health and safety risk. Continuous disregard for any requirement of the Occupational Health and Safety Act could be cause for the issuance of a stop work order or even termination of the contract.

The contractor shall also ensure that only competent workmen are employed onsite and that appropriate training and certification is supplied to all employees.

## **6. Workplace Safety and Insurance Board**

The Contractor hereby certifies that all employees and officers working on the project are covered by benefits provided by the Contractor. The WSIB clearance certificate must be furnished prior to signing of the Contract and updated every 60 days.

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## **7. Notification of Utilities**

The Contractor shall be responsible to notify any and all affected utilities and pipeline companies. This shall be done through Ontario One Call Locates. The contractor shall make available proof of locates if requested by the Municipality, Drainage Superintendent, or Engineer. The contractor shall carry out all work in the vicinity of any utility or pipeline at the direction of the Utility/Pipeline Supervisor.

## **8. Brushing**

All vegetation brush, cattails, woody vegetation, and trees shall be mulched using an excavator with mounted grinder. All brush and trees in the bottom of the channel shall be removed in their entirety, piled and burned onsite. Trees too large for grinding shall be cut, piled, and burned on site. Trees shall be cut off at ground level. All mulch should be removed from the channel and added to the burn piles. Any branches laying on the drain banks, top of bank or within the channel shall also be burned. Burning on site shall be subject to guidelines of the MECP. Any permits must be obtained prior to burning.

## **9. Excavation and Levelling**

The open channel shall be excavated to the depths and grades as shown on the profile contained within this report. The bottom shall be maintained with side slopes to be left as undisturbed as possible. The excavated material shall be placed as per the working corridor section (east side of the drain). A laser level shall be used to guarantee an even grade. It is intended that sediment be removed from the existing channel above the grade line along with any high points in the existing grade.

The excavated material shall be placed on a minimum of 1.5 metres clear of the top of the bank. All surface runs entering the open channel shall be left clear.

A labourer shall also check for any existing tile drains entering the drain and make every possible effort to not damage them. If a tile is found to be in poor condition or damaged it shall be report to the Drainage Superintendent.

If an owner wishes to truck the excavated material offsite or elsewhere on his property, he may do so under this report with the cost of trucking less levelling being assessed to that property.

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## 10. Culvert Replacements

The culverts located along the drain are as follows:

**Culvert #1 (Lot 1, Gore Concession)** - The existing culvert is 8 metres long x 900 mm diameter CSP with no endwalls. The culvert is in poor shape and currently sits higher than the drain bottom. It shall be replaced under this report with a new 10 metres of 900 mm diameter HDPE pipe c/w concrete block endwalls, drainage stone bedding, full granular B backfill and a granular A drive.

**Culvert #2 (S1/4 Pt. Lot 1, Concession 14)** - The existing culvert consisted of 5 metres of 2400 mm diameter boiler pipe with no endwalls. The culvert has failed and could not be used. This culvert was replaced under an emergency designation with 10 metres of 750 mm diameter HDPE pipe c/w concrete block endwalls, drainage stone bedding, full granular B backfill and a granular A drive.

**Culvert #3 (S1/2 N1/2 Lot 1, Concession 14)** - The existing culvert is 12 metres long x 600 mm diameter CSP with jute bag endwalls. It is in poor shape. The culvert is to remain a private culvert on the drain.

The existing culvert and endwalls shall be removed in their entirety from the open channel and disposed offsite at the expense of the Contractor. Suitable backfill shall be stockpiled adjacent to the site for reuse during installation of the proposed culvert. Suitable backfill material shall not include any clay; it must be in granular form. Unsuitable material shall be disposed of offsite by the Contractor.

The contractor shall supply, install and backfill CSA approved HDPE smooth wall pipe (320 KPa) c/w manufactured couplers.

Any existing tile outlets shall be extended downstream of the proposed culvert and shall be done with non-perforated HDPE agricultural tubing with a manufactured coupling, elbow and rodent grate.

The culvert shall set with the invert 10% below the design channel bottom (minimum 150mm) and to grade shown on the culvert detail.

The bottom of the excavation shall be excavated to the required depth with any over excavation backfilled with drainage stone. It is expected that 100mm of bedding is placed under the pipe. When the pipe has been installed to the proper grade and depth, the excavation shall be backfilled with drainage stone from the bottom of the excavation to the springline of the pipe. Care shall be taken to ensure that the backfill on either side of the culvert does not differ by more than 300mm so that the pipe is not displaced.

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The culvert shall be backfilled from the springline to finished grade with approved native granular backfill and granular B to within 150 mm of finished grade. The top 150 mm shall be backfilled with compacted approved granular "A" material to finished grade.

All backfill shall be free from deleterious material. All backfill material above the springline shall be mechanically compacted using appropriate compaction equipment.

Endwalls shall consist of concrete blocks with dimensions of approx. 600 mm x 600 mm x 1200 mm, 600 mm x 600 mm x 2400 mm or 300 mm x 600 mm x 1200 mm as required. The top of the culvert shall govern block elevation. The correct block shall be set with the top of the block equal to the top of the culvert. The blocks shall be set at each end of the culvert so that each row of blocks will be offset approx. 100 mm from the row below. The bottom row shall consist of one block placed parallel to the culvert. The blocks shall be imbedded a minimum of 300 mm into each bank.

The blocks shall be placed over a layer of filter fabric (Terrafix 270R or approved equal). The culvert shall be backfilled in conjunction with the placement of the blocks. It is recommended to install drainage stone behind the blocks until backfill is over the top of the pipe. All (4) gaps between the culvert and the blocks shall be filled with concrete cinder blocks/bricks and mortar to give the endwall a finished appearance.

The top row of blocks should be set to match existing grade and to the direction of the Drainage Superintendent. It may be required to sink a block into the bottom of the channel on each side of the culvert in order for the blocks to match the top of the culvert and be level across the top. At no time shall a block be set above the invert of the culvert.

## **11. Subsurface Drainage**

The landowner shall be responsible to mark all existing subsurface drain tile and all tile mains. The Contractor shall be responsible to repair all marked tile that are damaged during excavation of the open channel.

The landowner is responsible for the outlet of surface water from the adjacent field to the open channel. Where a washout has occurred erosion protection consisting of rip rap and filter fabric shall be placed at the expense of the landowner.



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## 12. Environmental Considerations

The following environmental considerations have been specified or are recommended to be included as part of this project to help mitigate any potential adverse impacts of the proposed drainage works on water quality.

- All excavated and stockpiled material shall be placed a minimum of 1.5 metres from the top of the bank. Material shall not be placed in surface water runs or open inlets that enter the channel.
- All granular and erosion control materials shall be stockpiled a minimum of 3.0 metres from the top of the bank. Material shall not be placed in surface water runs or open inlets that enter the channel.
- All activities, including maintenance procedures, shall be controlled to prevent the entry of petroleum products, debris, rubble, concrete, or other deleterious substances into the water. Vehicle and equipment refuelling and maintenance shall be conducted away from the channel, any surface water runs, or open inlets. All waste materials shall be stockpiled well back from the top of the bank and all surface water runs and open inlets that enter the drain.
- All construction in the channel shall be carried out during periods of low flow.
- A heavy-duty silt fence shall be installed at the outlet of the drain at the discretion of the Drainage Superintendent or Engineer.
- The Culvert BMP shall be followed for culvert replacements as outlined in the Guidance Document for Maintaining and Repairing Municipal Drains in Ontario.

## 13. Miscellaneous

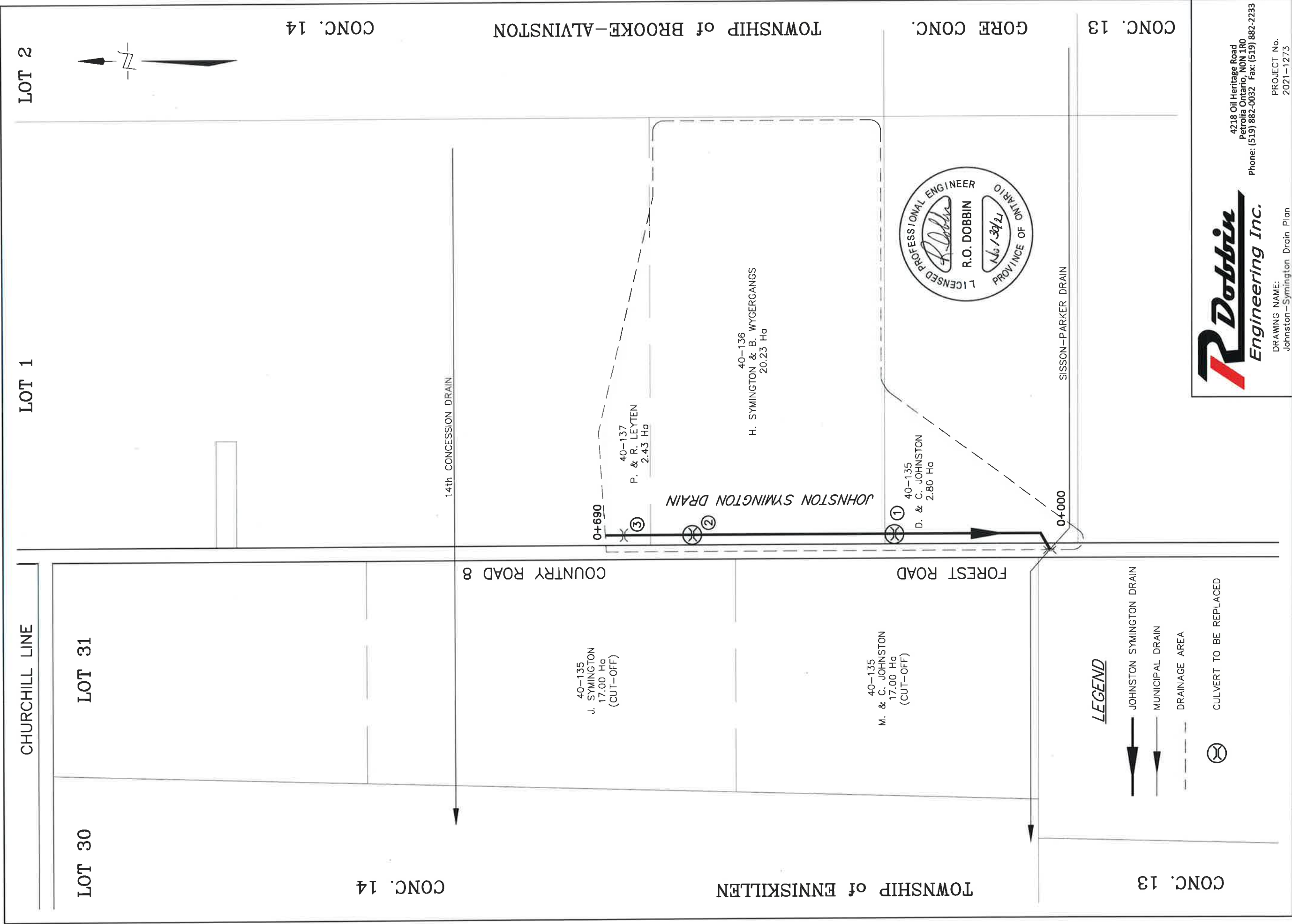
The Contractor shall remove any cross fences necessary to carry out construction operations. Upon completion of the work, the fences shall be reconstructed using existing materials. If existing materials cannot be reused, new material shall be used at the expense of the landowner.

The landowner of each property shall be responsible to mark all of his tile outlets. The landowner shall repair any tile outlets that are not marked and are damaged during construction. The Contractor shall repair any tile outlets that are marked and damaged during construction.

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**14. Benchmarks**

The benchmarks are based on geodetic elevations. Elevations are available at the locations shown on the Plan and Profile drawings. Where these elevations are on existing structures to be replaced, they shall be transferred by the Contractor prior to the removal of the culvert. The contractor shall complete a benchmark loop to confirm elevations and provide any discrepancies to the Drainage Superintendent of Engineer.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Johnston-Symington Drain Plan

PROJECT No.  
2021-1273

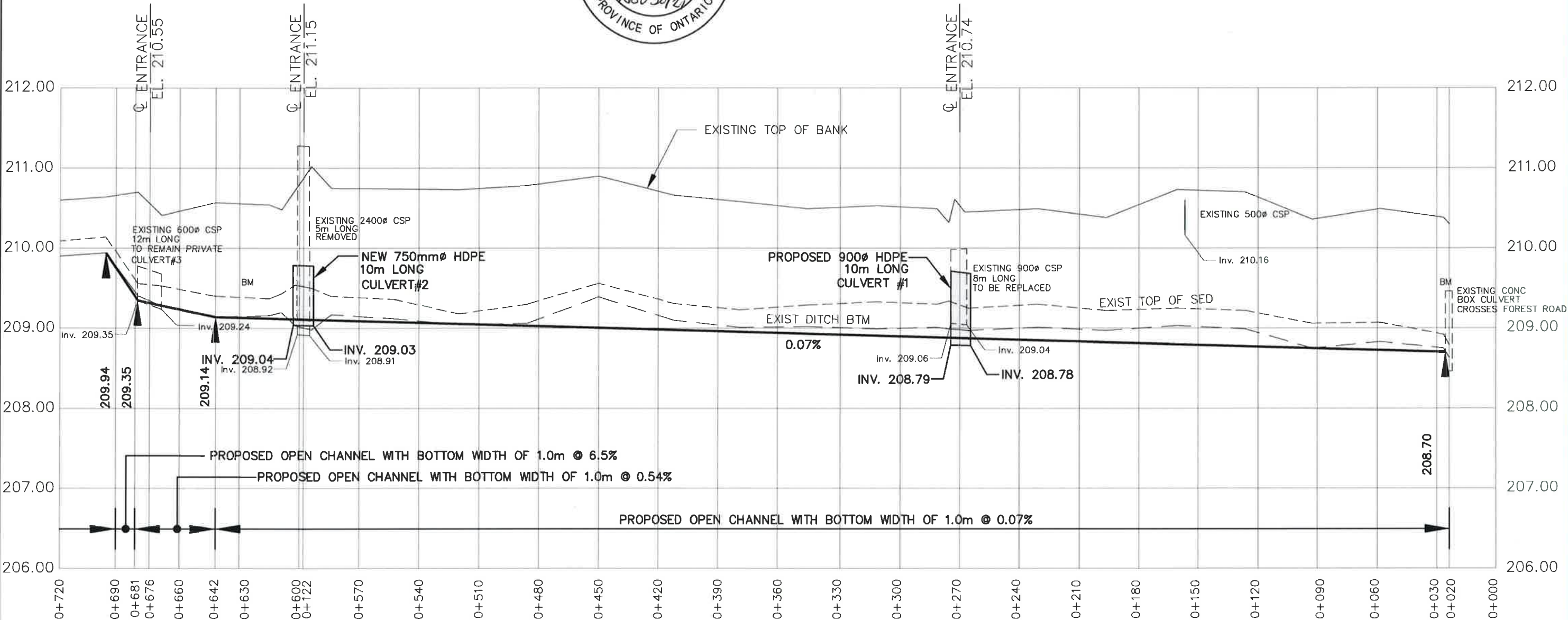
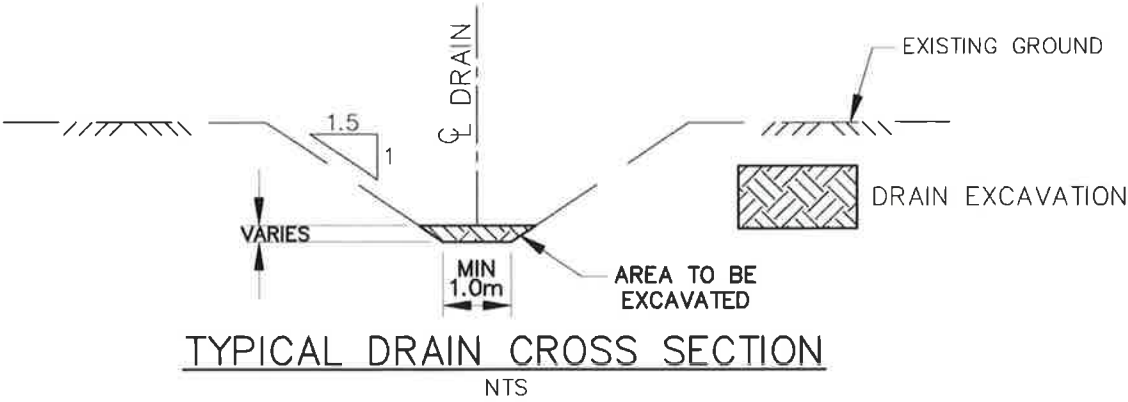
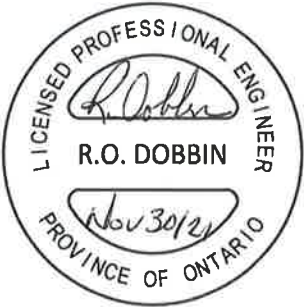
APPROVED R. DOBBIN	NO.	REVISIONS	DATE	BY
CHECKED B. VAN RUITENGURG	1	FINAL REPORT	NOV. 30, 2021	DMO
DRAWN D. MOORES	SCALE: 1:5000 0 50 100 150m			

MUNICIPALITY of BROOKE-ALVINSTON  
JOHNSTON-SYMINGTON DRAIN  
PLAN  
1  
OF 3

GENERAL NOTES

1. BENCHMARK No.1 ELEV. 210.95  
TOP EAST END OF CONCRETE BOX  
CULVERT  
0+020

2. BENCHMARK No.2 ELEV. 210.35  
NAIL SET IN HYDRO POLE  
ST. 0+630
3. UPPER NUMBERS ARE DEPTH FROM  
TOP OF BANK TO BOTTOM OF NEW CHANNEL.



4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Johnston-Symington Drain Profile

PROJECT No.  
2020-1273

APPROVED  
R. DOBBIN

CHECKED  
B. VAN RUITENBURG

DRAWN  
D. MOORES

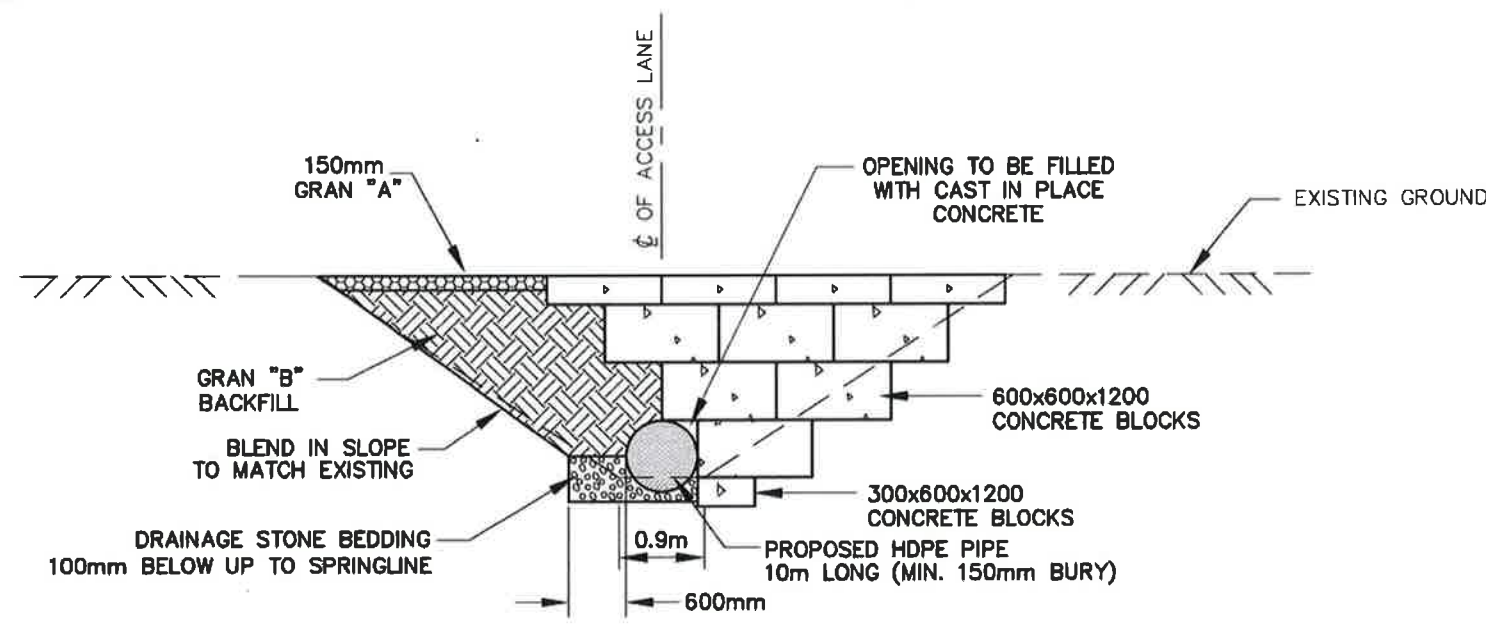
NO.	REVISIONS	DATE	BY
1	FINAL REPORT	NOV. 30, 2021	DMO

SCALE: 1:2,000  
0 20 40 60m

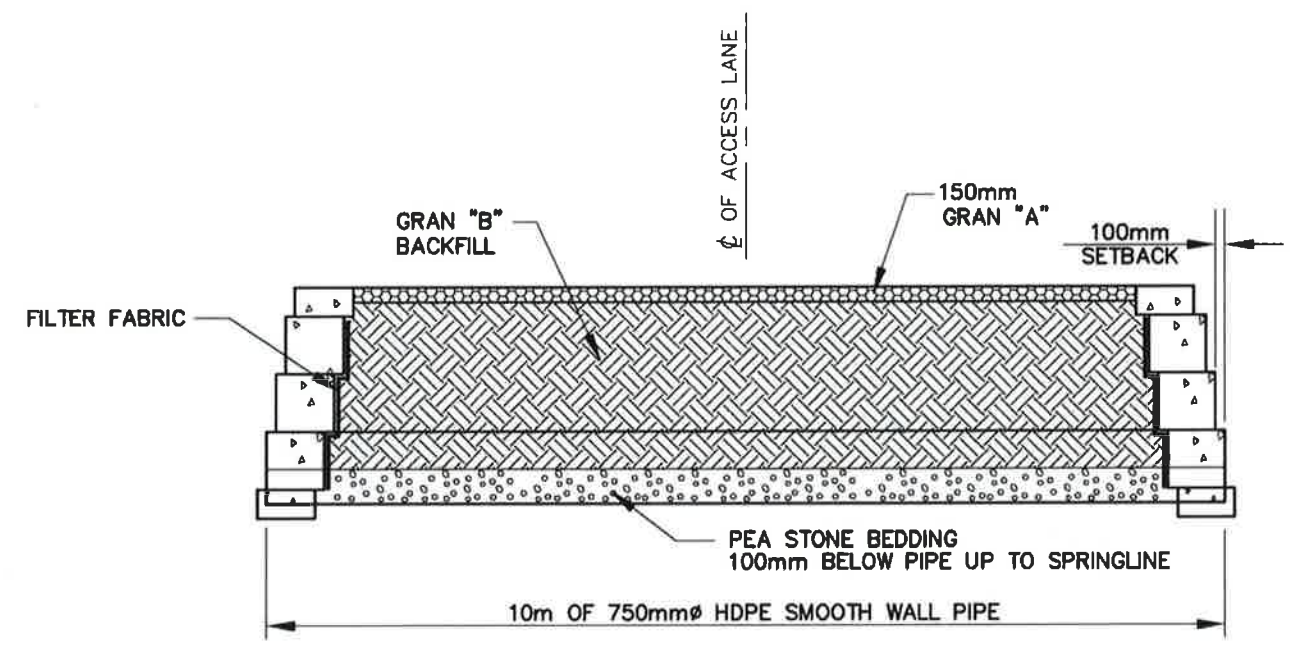
MUNICIPALITY of BROOKE-ALVINSTON  
JOHNSTON-SYMLINGTON DRAIN  
PROFILE

2  
OF 3

Last Updated: November 30, 2021



PROPOSED PIPE END SECTION



PROPOSED CROSS-SECTION

**BM #1 ELEV. 210.95**

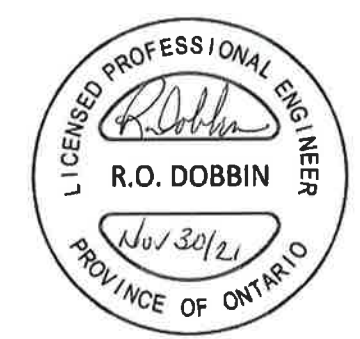
TOP EAST END OF EXISTING CONCRETE BOX CULVERT UNDER FOREST ROAD STATION 0+020

**BM #2 ELEV. 210.35**

NAIL SET IN HYDRO POLE STATION 0+630

**GENERAL NOTES:**

1. ALL CULVERTS SHALL BE HDPE PIPE CSA APPROVED BELL AND SPIGOT, 320KPA.
2. REFER TO SPECIFICATIONS FOR CULVERT SIZES AND LENGTHS.
3. BACKFILL MATERIAL TO BE GRANULAR MATERIAL UNLESS OTHERWISE SPECIFIED.
4. CONCRETE BLOCK ENDWALLS TO MATCH EXISTING GROUND.
5. CONCRETE BLOCKS ARE TO BE SET TO BOTTOM OF PIPE OR EMBEDDED TO ALLOW BLOCKS TO SIT LEVEL WITH THE TOP OF PIPE.





4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Johnston-Symington Drain Typical Culvert Detail

PROJECT No.  
2021-1273

APPROVED R. DOBBIN	NO.	REVISIONS	DATE	BY
CHECKED B. VAN RUITENBURG	1	FINAL REPORT	NOV. 30, 2021	DMO
DRAWN D. MOORES	SCALE 1: 75			
	<div>0<div><div></div><div></div></div>2m</div>			

**MUNICIPALITY of BROOKE-ALVINSTON**

**JOHNSTON-SYMRINGTON DRAIN**

**TYPICAL CULVERT DETAIL**

**3  
OF 3**

**ENCLOSURE**

Johnston-Symington Drain  
Municipality of Brooke Alvinston  
November 30, 2021

**ESTIMATED NET ASSESSMENT**

Conc.	Lot or Part	Roll No.	Owner	Total Assessment	Estimated Grant	Allowances	Estimated Net Assess.
Municipality of Brooke-Alvinston							
Agricultural Lands							
Gore	Pt. Lot 1	40-135	D. & C. Johnson	12,725.00	4,242.00	1,140.00	7,343.00
14	S 1/4 Pt. Lot 1	40-136	H. Symington & B. Wygergangs	21,633.00	7,211.00	1,490.00	12,932.00
	N1/2 S1/2 Pt. Lot 1	40-137	P. & R. Leyten	2,627.00	876.00	390.00	1,361.00
Public Lands: Roads							
	Forest Road		County of Lambton	9,119.00			9,119.00
Township of Enniskillen							
Agricultural Lands							
14	S Pt. Lot 31	160-036	L. & M. O'Hara	1,108.00	369.00		739.00
	Ctr. Pt. Lot 31	160-034	J. Symington	488.00	163.00		325.00
<b>Total Assessment</b>				<b>\$47,700.00</b>	<b>\$12,861.00</b>	<b>\$3,020.00</b>	<b>\$31,819.00</b>





4218 Oil Heritage Road  
 Petrolia, Ontario, N0N 1R0  
 Phone: (519) 882-0032 Fax: (519) 882-2233  
 www.dobbineng.com

November 15, 2021

The Mayor and Council  
 Municipality of Brooke-Alvinston  
 3236 River Street  
 Alvinston, Ontario  
 N0N 1A0

Gentlemen and Madame;

**Re: Steadman Drain No. 1**

In accordance with your instructions, I have undertaken an examination with regards to the construction of a municipal drainage works in Lot 16, Lot 17 and the west half of Lot 18, Concession 9 in the Municipality of Brooke-Alvinston. The course of the work has been surveyed with elevations taken at stations of 30 metres or part thereof.

Authorization under the Drainage Act

This is an Engineers Report that has been prepared under section 4 of the Drainage Act as per petitions submitted by interested Landowners. A petition was received from the owner of the W1/2 Lot 18 dated February 9, 2018 requesting that a closed drain be extended across his property. A petition was received from the owner of the N1/2 Lot 16 and the SW1/4 Lot 17 dated December 2, 2020 requesting the existing private tile be replaced with a covered drain downstream to Nauvoo Road.

A petition for the drainage, by means of a drainage works, of an area requiring drainage may be filed with the Municipality in which an area is situate by,

- a) the majority in number of the owners including the owners of any roads in the area.
- b) the owner or owners of lands in the area representing at least 60% of the hectarage in the area.
- c) where the drainage works is required for a road or part thereof.



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The drainage area is the area that contributes surface and/or subsurface water to the drainage works. The area requiring drainage is defined as that area that is low lying or dish shaped where surface waters and/or subsurface waters collect and would benefit from the improved drainage.

The area requiring drainage lies within the west half Lot 18 north of the existing farm buildings. The Owner of the west half of Lot 18 has signed a petition for a drainage works that represents the majority of the land area in the area requiring drainage. This petition complies with section 4(1)(b) of the Drainage Act requiring the Owner or Owners representing the majority of the Owners in the area requiring drainage to sign the petition for drainage.

The area requiring drainage lies within the N1/2 Lot 16 and the SW1/4 Lot 16 and requires a sufficient outlet to Nauvoo Road. The Owner of the N1/2 Lot 16 and the SW1/4 Lot 16 has signed a petition for a drainage works that represents the majority of the land area in the area requiring drainage. This petition complies with section 4(1)(b) of the Drainage Act requiring the Owner or Owners representing the majority of the Owners in the area requiring drainage to sign the petition for drainage.

As per section 8(4) of the Drainage Act, the 2 petitions shall be combined into one report.

#### Description of Existing Drainage

There is private tile drainage system west of Nauvoo Road that extends from the N1/2 Lot 16 and outlets to a gully approx. 85 metres upstream of Nauvoo Road. There is also a branch drain that extends from the SW1/4 Lot 16. The water flows across Nauvoo Road via a road culvert and eventually outlets to Browns Creek on the east side of the E1/2 Lot 18, Concession 9. The water flows through a channel cut into the bottom of the gully. The slopes are eroding along its length and trees are being undercut.

#### Drain Classification

This is a new municipal drainage works. The current drain is unclassified. There are no aquatic species at risk and no species at risk critical habitat according to the Ministry of Agriculture, Food and Rural Affairs Ag Map. The proposed drainage works is within the St. Clair Region Conservation Authority regulated area.

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### Onsite Meeting

An onsite meeting was held on March 21, 2018. It was requested that a covered drain be constructed extending from the east side of Nauvoo Road across the W1/2 Lot 18 to the east side of the W1/2 Lot 18, Concession 9. The owner is concerned that the water flow is eroding and undermining the sideslopes. His tile main outlets to the bottom of the channel and in order to provide adequate outlet for his tile main the channel would require deepening.

A second onsite meeting was held on November 17, 2020. A verbal request to replace the private tile drain west of Nauvoo Road had been received. Subsequent to the meeting a formal petition was submitted.

The replacement of the private tile was discussed along with the extension downstream to the east side of the W1/2 Lot 18. It was pointed out that the low run in the W1/2 Lot 18 had suffered considerable erosion with trees and the sideslopes being undermined. The SCRCA representative discussed the concerns of the SCRCA with the proposed tile drain. The Engineer, Drainage Superintendent and the SCRCA representative walked the proposed project site in the W1/2 Lot 18 and discussed possible mitigation measures.

### Site Investigation and Survey

It appears that the drainage works would provide outlet for approx. 126.4 hectares of lands west of Nauvoo Road plus a portion of Nauvoo Road.

### Recommendations

It is therefore recommended that the following work be carried out:

1. A tile drain with sufficient capacity for upstream waters shall be constructed from Nauvoo Road to an outlet on the east side of the W1/2 Lot 18, Concession 9, a distance of approx. 296 metres.
2. The existing private tile drain shall be replaced with a covered drain with sufficient capacity from Nauvoo Road upstream to the south boundary of the N1/2 Lot 16.
3. The existing private tile drain shall be replaced with a covered drain with sufficient capacity in the SE1/4 Lot 16 from an outlet to the covered drain proposed in item no. 2 above upstream to the east boundary of the SW1/4 Lot 16 (South Branch).

-4-

4. A ditch inlet catchbasin shall be installed on the east side of Nauvoo Road immediately downstream of the road culvert along with a berm to control the flow of surface water.
5. A catchbasin shall be installed at each property limit.
6. An energy diffuser shall be installed at the outlet of the covered drain in 2 locations.

#### Design

The proposed tile drain shall be designed with a capacity of 37 mm per 24 hours. This includes surface and subsurface waters from the west side of the road allowance and surface waters from the road allowance.

There has been no indication from Owners or from field observations of any adverse soil conditions. No formal soil investigation has been carried out.

#### Estimate of Cost

It is recommended that the work be carried out in accordance with the accompanying Specification of Work and Profile that forms part of this Report. There has been prepared an Estimate of Cost in the amount of \$199,065.00.00 for the Main Branch and 28,039.00 for the South Branch Drain including engineering for a total cost of \$227,104.00. A Plan has been prepared showing the location of the work and the approximate drainage area.

#### Assessment

Lands, roads, buildings, utilities, or other structures that are increased in value or are more easily maintained as a result of the construction, improvement, maintenance, or repair of a drainage works may be assessed for benefit. (Section 22)

Lands and roads that use a drainage works as an outlet, or for which, when the drainage works is constructed or improved, an improved outlet is provided either directly or indirectly through the medium of any other drainage works or of a swale, ravine, creek, watercourse, may be assessed for outlet assessment. The assessment for outlet is based on the volume and rate of flow of the water artificially caused to flow into the drainage works. (Section 23)

-5-

The Engineer may assess for special benefit any lands for which special benefits have been provided by the drainage works. (Section 24)

A Schedule of Assessment for the lands and roads affected by the work and therefore liable for the cost thereof will be prepared as per the Drainage Act. Also, assessments may be made against any public utility or road authority, as per section 26 of the Drainage Act, for any increased cost for the removal or relocation of any of its facilities and plant that may be necessitated by the construction or maintenance of the drainage works. Items to be assessed under section 26 shall be tendered separately with the actual cost plus a portion of the engineering (25% of the cost).

The cost of any approvals, permits or any extra work, beyond that specified in this report that is required by any utility, conservation authority, government ministry or organization (federal or provincial), or road authority shall be assessed to that organization requiring the permit, approval, or extra work.

The special benefit assessments are first established and deducted from the total cost. The remaining cost is then separated into benefit and outlet assessment. Outlet assessment is distributed to upstream lands based on equivalent hectares. Equivalent hectares are weighted hectares compared to cultivated agricultural lands with the factor depending on the amount of water caused to flow.

The estimated cost of the drainage works has been assessed in the following manner:

1. The cost of constructing the covered drain has been assessed with 60% of the cost assessed as benefit assessment and the remainder of the cost has been assessed to upstream properties as outlet assessment based on equivalent hectares.
2. The ditch inlet catchbasin on the east side of Nauvoo Road has been assessed with 1/3 of the cost assessed to the Road Authority, 1/3 to the W1/2 Lot 18 and 1/3 to the upstream properties west of Nauvoo Road based on equivalent hectares.
3. The catchbasins located at each property limit have been assessed with 1/3 of the cost assessed to the downstream property and 2/3 of the cost assessed to the upstream property.
4. The outlet works has been assessed as outlet assessment to upstream properties based on equivalent hectares.

-6-

### Allowances

Under section 29 of the Drainage Act, the Engineer in his report shall estimate and allow in money to the Owner of any land that it is necessary to use for the construction or improvement of a drainage works or for the disposal of material removed from drainage works. This shall be considered an allowance for right of way.

Under section 30 of the Drainage Act, the Engineer shall determine the amount to be paid to persons entitled thereto for damage, if any, to ornamental trees, lawns, fences, land and crops occasioned by the disposal of material removed from a drainage works. This shall be considered an allowance for damages.

Under section 32 of the Drainage Act, where the in the opinion of the Engineer, the cost of continuing a drainage works to a sufficient outlet or the cost of constructing or improving a drainage works with sufficient capacity to carry off the water will exceed the amount of injury likely to be caused to low lying lands along the course of or below the termination of the drainage works, the Engineer may include in the estimate of cost a sufficient sum to compensate the owners of such low lying lands for any injuries they may sustain from the drainage works.

Allowances have been made, where appropriate, as per section 29 of the Drainage Act for right of way, as per section 30 of the Drainage Act for damages to lands and crops and for section 32 for insufficient outlet..

Allowances for right of way are based on a land value of \$20,000.00 per hectare (\$8,000.00 per acre). Allowances for crop loss are based on \$1,500.00 per hectare for the first year and \$750.00 for the second year (\$2,250.00 per hectare total).

### Access and Working Area

Access to the work site be gained from Nauvoo Road or from Rokeby Line via the existing lanes or along property limits with the permission of the Owner.

The access for equipment to the work site shall be restricted to a width of 8 metres. The working area for the construction of the proposed tile drains shall be restricted to a width of 20 metres along the length of the drainage works normally centred on the proposed tile drain. This shall extend 20 metres upstream or downstream of the station limits of the drainage works.

-7-

### Agricultural Grant

It is recommended that application for subsidy be made for eligible agricultural properties. Any assessments against non-agricultural properties are shown separately in the Schedule of Assessment.

### Restrictions

No trees and shrubs shall be planted nor shall permanent structures be erected within 15 metres of either side of the proposed drain without prior written permission of Council.

Attention is also drawn to sections 80 and 82 of the Drainage Act, which refer to the removal of obstructions in a drain and damage caused to a drain.

### Existing Private Drainage

It is intended that the existing tile main in the W1/2 Lot 18 be located and connected to the proposed drain. All existing subsurface drainage along the length of the drainage works shall be reconnected to the proposed covered drain.

### Maintenance

Upon completion of the work, the drainage works shall be maintained as per the applicable Schedule of Assessment, less any special benefit assessments, unless otherwise altered under provisions of the Drainage Act or as follows.

The outlet works shall be maintained and repaired with the costs assessed based on the upstream equivalent hectares contained on the Schedule of Maintenance. This includes the outlet works located on the west side of Nauvoo Road and at the east side of the W1/2 Lot 18.

The catchbasin and berm located on the east side of Nauvoo Road shall be maintained with 1/3 of the cost assessed to the downstream property, 1/3 of the cost assessed to the Road Authority and 1/3 assessed to upstream properties west of Nauvoo Road based on equivalent hectares contained in the Schedule of Assessment. All other catchbasins shall be maintained with 1/3 of the cost assessed to the downstream property and 2/3 of the cost assessed to the upstream property.

-8-

The junction box located at the connection of the Steadman Drain No. 2 Drain to the Steadman Drain No. 1 Drain shall be maintained and repaired with the costs assessed to the Steadman No. 2 Drain based on equivalent hectares as contained in the Schedule of Maintenance

All of the above is submitted for your consideration.

Yours truly,



Ray Dobbin, P. Eng.



### Allowances

Allowances have been made as per section 29 for right of way, section 30 for damages to lands and crops and section 32 for damage due to insufficient outlet.

Conc.	Lot or pt. Lot	Roll No.	Owner	Section 29	Section 30	Section 32	Total
<b>Main Drain</b>							
9	N1/2 L16	30-174	D. McGugan		100.00		100.00
	SE1/4 L16	30-177	M. & B. McNeil	1,428.00	1,071.00		2,499.00
	W1/2 L17	30-178	W. & T. Douglas	1,878.00	1,409.00		3,287.00
	E1/2 L17	30-179	J. Douglas	2,064.00	1,548.00		3,612.00
	W1/2 L18	30-180	LaSalle Farms Ltd.	1,974.00	1,481.00		3,455.00
	E1/2 L18	30-181	W. Donkers			3,156.00	3,156.00
<b>South Branch</b>							
9	SW1/4 L16	30-176	D. & A. McGugan		100.00		100.00
	SE1/4 L16	30-177	M. & B. McNeil	2,244.00	1,683.00		3,927.00
Total Allowances				\$9,588.00	\$7,392.00	\$3,156.00	\$20,136.00



Steadman Drain No. 1  
Municipality of Brooke-Alvinston  
November 15, 2021

### Estimate of Cost No. 1 - Main Drain

To construct a covered drain from the east side of the W1/2 Lot 18 west to the south side of the N1/2 Lot 16.

Main Drain	Quantity	Unit	Material	Labour	Total
Allowances:			16,109.00		16,109.00
Supply: 450 mm dia. HDPE pipe	592	m	41,410.00	10,491.00	51,901.00
600 mm dia. concrete tile	565	m	25,262.00	13,351.00	38,613.00
400 mm dia. concrete tile	161	m	3,596.00	2,536.00	6,132.00
Outlet Works		LS	1,600.00	1,740.00	3,340.00
DICB - 900 x 1200	4	each	6,000.00	1,740.00	7,740.00
JB - 600 x 600	1	each	800.00	290.00	1,090.00
Granular: Pea stone	152	t	4,700.00		4,700.00
Rip rap and filter fabric			1,800.00	1,200.00	3,000.00
Excavation of Channel	103	m		1,030.00	1,030.00
Levelling of Excavated Material	103	m		103.00	103.00
Removal of Existing CBs/Structures		LS		500.00	500.00
Abandon Existing Tile		LS		500.00	500.00
Connect Existing Tile Mains	5	each	500.00	1,450.00	1,950.00
Connect Existing Subsurface					
Long	40	each	1,000.00	2,000.00	3,000.00
Short	70	each	1,750.00	3,500.00	5,250.00
Restoration			1,000.00		1,000.00
Miscellaneous			8,034.00		8,034.00
Sub Total					153,992.00
Engineering					39,403.00
Inspection and Contract Administration					5,270.00
SCRCA Fee					400.00
Total Main Branch					199,065.00

Steadman Drain No. 1 Branch  
Municipality of Brooke-Alvinston  
November 15, 2021

### Estimate of Cost No. 2 - South Branch

To construct the Steadman Drain No. 1 South Branch from the east side of the SW1/4 Lot 16 to the west side of the SW1/4 Lot 16.

	Quantity	Unit	Material	Labour	Total
Allowances:					4,027.00
S. & I. 350 mm dia. concrete tile	365	m	6,826.00	5,030.00	11,856.00
Connect to CB		LS	100.00	290.00	390.00
DICB - 900 x 1200	1	each	1,500.00	435.00	1,935.00
Granular: Pea stone		LS	200.00		200.00
Rip rap and filter fabric			300.00	200.00	500.00
Connect Existing Subsurface Drains					
long					
short	22	each	550.00	1,100.00	1,650.00
Miscellaneous			999.00		999.00
Sub Total					21,557.00
Engineering and Contract Administration					5,402.00
Inspection					680.00
Environmental					0.00
SCRCA Fee					400.00
Total Estimate					\$28,039.00

### SCHEDULE OF ASSESSMENT No. 1 - Main Drain

To construct a covered drain from the east side of the W1/2 Lot 18 west to the south side of the N1/2 Lot 16.

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Special Benefit	Benefit	Outlet	Total	eq. ha.
<b>Main Drain</b>									
<b>Agricultural Lands:</b>									
9	SW1/4 L16	19.31	30-176	D. & A. McGugan			11,209.00	11,209.00	17.41
	SE1/4 L16	18.50	30-177	M. & B. McNeil	2,732.00	8,908.00	10,681.00	22,321.00	18.40
	N1/2 L16	40.48	30-174	D. McGugan	500.00	1,488.00	32,457.00	34,445.00	40.48
	W1/2 L17	29.98	30-178	W. & T. Douglas	4,175.00	23,348.00	14,166.00	41,689.00	34.63
	E1/2 L17	14.67	30-179	J. Douglas	3,653.00	21,051.00	4,082.00	28,786.00	14.67
	W1/2 L18		30-180	LaSalle Farms Ltd.	500.00	52,587.00	952.00	54,039.00	16.40
Total Special Benefit					11,560.00	107,382.00	73,547.00	192,489.00	
Total Benefit					107,382.00				
Total Outlet					73,547.00				
Total Agricultural Lands					192,489.00				

2 of 2

## Schedule of Assessment (cont'd)

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Benefit	Outlet	Total	eq. ha.
Non Agricultural Lands:								
9	pt.E1/2 L17	0.81	30-17905	D. Clark	583.00	337.00	920.00	1.21
	pt.W1/2 L18	0.78	30-08010	J. & H. Klassen		328.00	328.00	1.18
Total Benefit					583.00	665.00	1,248.00	
Total Outlet					665.00			
Total Non Agricultural Lands					1,248.00			
Public Lands: Roads								
Nauvoo Road		1.78		County of Lambton	1,335.00	495.00	5,328.00	7.12
Total Special Benefit					1,335.00	495.00	5,328.00	
Total Benefit					3,498.00			
Total Outlet					495.00			
Total Public Lands: Roads					5,328.00			
Total Non Agricultural					1,248.00			
Total Agricultural					192,489.00			
Total Assessment					199,065.00			

Steadman Drain No. 1  
Municipality of Brooke-Alvinston  
November 15, 2021

**Schedule of Assessment No. 2 - South Branch**

To construct the Steadman Drain No. 1 South Branch from the east side of the SE1/4 Lot 16 to the west side of the SE1/4 L16.

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Special Benefit	Benefit	Outlet	Total	eq. ha.
Branch Drain									
Agricultural Lands:									
9	SW1/4 L16	19.31	30-176	D. & A. McGugan	500.00	2,042.00	11,775.00	14,317.00	19.31
	SE1/4 L16	14.72	30-177	M. & B. McNeil	1,563.00	12,159.00		13,722.00	14.72
Total Special Benefit					2,063.00	14,201.00	11,775.00	28,039.00	
Total Benefit					14,201.00				
Total Outlet					11,775.00				
Total Agricultural Lands					\$28,039.00				

### SCHEDULE OF MAINTENANCE

To maintain and repair the covered drain from the west side of Nauvoo Road to the east side of the W1/2 Lot 18, Concession 9.

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Benefit	Outlet	Total	eq. ha.
Agricultural Lands:								
9	SW1/4 L16	17.41	30-176	D. & A. McGugan		66.65	66.65	17.41
	SE1/4 L16	18.40	30-177	M. & B. McNeil		70.44	70.44	18.40
	N1/2 L16	40.48	30-174	D. McGugan		154.98	154.98	40.48
	W1/2 L17	34.63	30-178	W. & T. Douglas		132.58	132.58	34.63
	E1/2 L17	14.67	30-179	J. Douglas		56.16	56.16	14.67
	W1/2 L18		30-180	LaSalle Farms Ltd.	500.00		500.00	8.98
Total Benefit					500.00	480.81	980.81	
Total Outlet					480.81			
Total Agricultural Lands					980.81			

Schedule of Maintenance (cont'd)

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Benefit	Outlet	Total
Non Agricultural Lands:							
9	pt.E1/2 L16	6.93	30-17302	Can Grow Crop Solutions			
	pt.E1/2 L17	0.81	30-17905	D. Clark	0.00	4.63	4.63
	pt.W1/2 L18	0.21	30-08010	J. & H. Klassen			1.21
				Total Benefit	0.00	4.63	4.63
				Total Outlet	4.63		
				Total Non Agricultural Lands	4.63		
Public Lands: Roads							
	Nauvoo Road	0.95		County of Lambton		14.56	14.56
				Total Benefit	0.00	14.56	14.56
				Total Outlet	14.56		
				Total Public Lands: Roads	14.56		
				Total Non Agricultural	4.63		
				Total Agricultural	980.81		
				Total Assessment	\$1,000.00		

### Composite Schedule of Assessment

To construct a covered drain from the east side of the W1/2 Lot 18 west to the south side of the N1/2 Lot 16.

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Special Benefit	Benefit	Outlet	Total
<b>Main Drain</b>								
<b>Agricultural Lands:</b>								
9	SW1/4 L16	17.41	30-176	D. & A. McGugan	500.00	2,042.00	22,984.00	25,526.00
	SE1/4 L16	18.40	30-177	M. & B. McNeil	4,295.00	21,067.00	10,681.00	36,043.00
	N1/2 L16	40.48	30-174	D. McGugan	500.00	1,488.00	32,457.00	34,445.00
	W1/2 L17	34.63	30-178	W. & T. Douglas	4,175.00	23,348.00	14,166.00	41,689.00
	E1/2 L17	14.67	30-179	J. Douglas	3,653.00	21,051.00	4,082.00	28,786.00
	W1/2 L18		30-180	LaSalle Farms Ltd.	500.00	52,587.00	952.00	54,039.00
<b>Total Special Benefit</b>					13,623.00	121,583.00	85,322.00	220,528.00
<b>Total Benefit</b>					121,583.00			
<b>Total Outlet</b>					85,322.00			
<b>Total Agricultural Lands</b>					220,528.00			



## Composite Schedule of Assessment (cont'd) 2 of 2

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Benefit	Outlet	Total
Non Agricultural Lands:							
9	pt.E1/2 L17	0.81	30-17905	D. Clark	583.00	337.00	920.00
	pt.W1/2 L18	0.21	30-08010	J. & H. Klassen		328.00	328.00
				Total Benefit	583.00	665.00	1,248.00
				Total Outlet	665.00		
				Total Non Agricultural Lands	1,248.00		
Public Lands: Roads							
	Nauvoo Road	0.95		County of Lambton	3,498.00	495.00	5,328.00
				Total Special Benefit	1,335.00		
				Total Benefit	3,498.00	495.00	5,328.00
				Total Outlet	495.00		
				Total Public Lands: Roads	5,328.00		
				Total Non Agricultural	1,248.00		
				Total Agricultural	220,528.00		
				Total Assessment	227,104.00		

Steadman Drain No. 1  
Municipality of Brooke-Alvinston  
November 15, 2021

## **SPECIFICATION OF WORK**

### **1. Scope of Work**

The work to be included in this specification includes the installation of approx. 592 metres of 450 mm dia. HDPE pipe (as 296 metres of twin drains) from the east side of Nauvoo Road west to the east side of the W1/2 Lot 18, concession 9, 565 metres of 600 mm dia. And 161 metres of 400 mm dia. concrete tile from Nauvoo Road west to the south side of the N1/2 Lot 16, 4 ditch inlet catchbasins, outlet works (2 each) and related work to construct the Steadman Drain No. 1. The work also includes 337 metres of 350 mm dia. concrete tile and 1 ditch inlet catchbasin and related work for the Steadman Drain No. 1 South Branch in the SE1/4 Lot 16. All work is located in the Municipality of Brooke-Alvinston.

### **2. General**

Each Tenderer must inspect the site prior to submitting their tender and satisfy themselves by personal examination as to the local conditions that may be encountered during this project. The Tenderer shall make allowance in their tender for any difficulties which they may encounter. Quantities or any information supplied by the Engineer is not guaranteed and is for reference only.

All work and materials shall be to the satisfaction of the Drainage Superintendent who may vary these specifications as to minor details but in no way decrease the proposed capacity of the drain.

The Contractor shall be responsible for the notification of all utilities and pipeline companies prior to the start of construction.

### **3. Plans and Specifications**

These specifications shall apply and be part of the contract along with the General Specifications for Closed Drains and the General Specifications for Open Drains. This Specification of Work shall take precedence over all plans and general conditions pertaining to the contract. The Contractor shall provide all labour, equipment, and supervision necessary to complete the work as shown in the Plans and described in these

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specifications. Any work not described in these specifications shall be completed according to the Ontario Provincial Standard Specifications and Standard Drawings.

Any reference to the Owner contained in these contract documents shall refer to the Municipality of Brooke-Alvinston or the Engineer authorized by the Municipality to act on its behalf.

#### **4. Expose Existing Drain**

There is an existing tile main from the north in the W1/2 Lot 18 that is to be exposed prior to construction and the invert is to be checked.

The existing tile drain west of Nauvoo Road shall be exposed in enough locations to establish its location (approx. every 200 metres).

#### **5. Installation of Tile**

The Contractor shall supply, install, and backfill the specified sizes of tile and pipe to the depths and grades as shown on the drawings and as follows:

Sta. 0+000 to sta. 0+296 – 2 x 450 mm dia. HDPE smooth wall pipe

Sta. 0+420 to sta. 0+985 – 600 mm dia. concrete tile

Sta. 0+985 to sta. 1+146 – 400 mm dia. concrete tile

Sta. 0+000 to sta. 0+337 – 350 mm dia. concrete tile (South Branch)

Concrete tile shall conform to ASTM C412, extra quality tile. Tile shall have a circular interior and exterior shape. HDPE smooth wall pipe shall be coupler joint (320 kPa).

It is intended that the proposed tile drain be located along the line of stakes established by the Engineer in the W1/2 Lot 18. The proposed drain west of Nauvoo Road shall generally follow the existing tile drain. It shall generally be located 2 metres south of the existing tile drain.

If an excavator is used, the bottom of the trench shall be rounded with a shovel with any over excavation filled with pea stone. Pea stone bedding shall be placed from the bottom of the excavation to the springline of the pipe.

The concrete tile shall be covered manually to a depth of approx. 100 mm over the pipe to ensure that the tile and pipe are not displaced by large clumps of earth.

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After pipe/tile installation, the trench shall be backfilled with excavated material free of stones, broken tile or other deleterious material. All stones larger than 100 mm in diameter evident immediately after construction shall be picked up by the Contractor and disposed offsite. The Owners are responsible for stones after that. The material shall be left windrowed over the trench to allow for settlement.

The tile shall be laid in straight lines or on smooth gradual curves with a minimum radius or 25 metres. Where approved by the Engineer (or specified) the tile may be laid in tighter curves by sawcutting joints. The maximum deflection of one tile joint shall be 22 degrees. Turns of greater than 22 degrees shall require the use of manufactured bends (PE smooth wall).

Laser control shall be used to ensure proper grades. The grades calculated on the Profile are to the invert of the tile and pipe with allowances to be made by the Contractor for the wall thickness of the tile and pipe. The depths shown and figured are from ground level to the invert of the pipe along the line of the proposed drain. Should an error appear in the figured depth at any station or stations, the grade shall be made to correspond with that shown on the Profile without extra charge.

If the land level must be lowered in order to carry out trenching operations, then it is up to the Contractor to determine if it is necessary and include any extra cost involved. He shall first strip the topsoil to its full depth and stockpile it along one side of the working width and then grade the area to allow the trenching to be carried out. All excavated material shall be windrowed on the side opposite the trench that the topsoil is stockpiled. After trenching and backfilling operations are complete, the topsoil shall be spread to its original depth.

All areas disturbed by construction in cultivated fields, except the material windrowed over the trench, shall be left in a condition suitable for cultivation. All areas not in cultivated fields shall be seeded after final levelling. Final levelling or the removal of excess material shall be the responsibility of the property owner.

The Contractor shall not operate any trenching or backfill equipment, delivery trucks or equipment, pickup trucks or other vehicles along or over the trench during or after construction. The Contractor shall be responsible for any damage caused by any equipment or vehicles operated over the trench. If the Contractor must cross the trench, he will do so in one area.

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The Landowners are also warned not to operate farm equipment over the trench or along the length of the trench in order to protect the tile.

## **6. Outlet Works**

An outlet works is to be constructed in 2 locations - sta. 0+000 and sta. 0+420 on the main drain. The outlet at sta. 0+000 consists of 2 x 450 mm dia. HDPE pipe with a manufactured rodent grate shall be installed at the end of the outlet pipe. The outlet at sta. 0+420 consists of 6 metres of 600 mm dia. HDPE pipe with a manufactured rodent grate shall be installed at the end of the outlet pipe.

The outlet works shall include concrete blocks, filter fabric and erosion protection as shown on drawing no. 5

Erosion protection made up of rip rap and filter fabric shall be installed on the sideslope from the top of the concrete block to a height of 900 mm above the top of the pipe. The erosion protection shall also extend for a distance of 3 metres downstream from the concrete blocks

Rip rap shall be made up of 100 mm to 250 mm quarry stone or approved equal. The area to receive the rip rap shall first be graded to allow the placement of the rip rap to a depth of 300 mm below finished grade. After grading, a layer of filter fabric (Terrafix 270R or approved equal) is to be placed with any joints overlapped a minimum of 600 mm. Rip rap shall then be placed with the smaller pieces placed in the gaps and voids to give it a uniform appearance.

## **7. Inlet Works**

An inlet works is to be constructed at sta. 0+296 east of Nauvoo Road. The outlet works shall include ditch inlet (see item no. 8 below), concrete blocks, filter fabric, berm and erosion protection as shown on drawing no. 5

The berm shall be constructed on the downside of the ditch inlet catchbasin with a height approx. 150 mm below the existing top of bank. The slope on the ditch inlet catchbasin side shall be 2:1 and the slope on the downstream side shall be 5:1. The topsoil shall be stripped in the area of the berm. The berm shall be constructed of excavated clay material free of organic material. It shall be compacted to 95% modified proctor density. After construction, the berm shall be covered with 100 mm of topsoil and seeded. Erosion control matting (approved by the Engineer) shall also be placed over all disturbed soils

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Erosion protection made up of rip rap and filter fabric shall be installed on the sideslope from the bottom of the sideslope to a height of 900 mm above the top of the pipe extending downstream to the inlet of the catchbasin. The erosion protection shall extend on either side of the ditch inlet catchbasin to the top of the berm and to the bottom of the berm on the downstream side.

Rip rap shall be made up of 100 mm to 250 mm quarry stone or approved equal. The area to receive the rip rap shall first be graded to allow the placement of the rip rap to a depth of 300 mm below finished grade. After grading, a layer of filter fabric (Terrafix 270R or approved equal) is to be placed with any joints overlapped a minimum of 600 mm. Rip rap shall then be placed with the smaller pieces placed in the gaps and voids to give it a uniform appearance.

The Drainage Superintendent may include concrete blocks into the inlet works as necessary at the time of construction.

## 8. Ditch Inlet Catchbasin

The catchbasins shall be installed to the elevations and in the locations shown on the drawings as follows:

Structure	Sta.	Type	Top Inlet Elev.	Outlet Invert	Inlet Invert	Inlet Invert
DICB#1	0+296	900 mm x 1200 mm c/w birdcage grate	215.74	215.02E (2x450)		
DICB#2	0+683	900 mm x 1200 mm c/w birdcage grate	219.83	218.22E (600)	218.62W (600)	
DICB#3	0+985	900 mm x 1200 mm c/w birdcage grate	221.06	219.46E (600)	219.66W (400)	220.11SW (350)
DICB#4	1+146	900 mm x 1200 mm c/w birdcage grate	221.98	220.58E (400)	220.60W (300)	
DICB#5	0+337 (Br. 2)	900 mm x 1200 mm c/w birdcage grate	223.62	222.47E (450)	222.49W (300)	

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The DICBs shall be a 900 mm x 1200 mm square precast concrete structure with 2:1 top slopes. The inlet for all ditch inlet catchbasins shall face upstream. The construction of DICB#1 shall be completed in conjunction with item no. 7 Inlet Works above.

The catchbasins shall have manufactured birdcage style grate with 50 mm bar spacings. The catchbasins shall be made with the top sections separate from the base sections in order to allow riser sections to be installed or removed as necessary (i.e. the base section shall not extend for more than 150 mm above the top of the highest opening in the base section). The wall thickness of all structures shall be 115 mm and each shall have a 300 mm sump.

The catchbasin shall be set at the final elevations as directed by the Drainage Superintendent. The catchbasin shall be set on a layer of pea stone or drainage stone. The pea stone or drainage stone shall be extended up to the springline of the inlet and outlet pipe connections.

The tile/pipe at the connection to the catchbasins shall be concreted on both the inside and outside prior to backfilling. Any pipe or tile shall not protrude more than 50 mm inside the wall. The joints between the proposed pipe and the existing pipe shall be wrapped with filter cloth as approved by the Drainage Superintendent. Pea stone bedding shall be used along the above pipes from the bottom of the excavation to the springline.

The erosion protection shall be placed to a depth of 300 mm and shall be made up of rip rap and filter fabric. Rip rap shall be made up of 100 mm to 250 mm quarry stone or approved equal. The area to receive the rip rap shall first be graded to allow the placement of the rip rap to a depth of 300 mm below finished grade. After grading, a layer of filter fabric (Terrafix 270R or approved equal) is to be placed with any joints overlapped a minimum of 600 mm. Rip rap shall then be placed with the smaller pieces placed in the gaps and voids to give it a uniform appearance.

## **9. Excavation of Channel**

The existing channel from Nauvoo Road west to sta. 0+420 shall be excavated to the depths and grade as shown on the Profile. The bottom width shall be 1 metre with the sideslopes are be left as undisturbed as possible. A laser shall be used to guarantee an even grade.

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The excavated material shall be placed on private lands adjacent to the drain at least 1.5 metres clear of the top of the bank. All low runs and swales outletting surface water to the open channel shall not be filled in during levelling operations.

The excavated material shall be levelled to a maximum depth of 150 mm and shall be left in a condition suitable for cultivation. All large branches and pieces of wood are not to be buried but shall be picked up by the Contractor and burned. If an owner wishes to truck the excavated material offsite or elsewhere on his property, he may do so under this report with the cost of trucking less levelling being assessed to that property.

#### **10. Brushing and Tree Removal**

Trees and brush shall be removed from the outlet area and along the length of the covered drain for a distance of 10 metres in any direction. If any trees interfere with the performance of the covered drain they shall be removed. Trees and brush shall also be removed from the channel as necessary to carry out excavation.

No trees shall be planted for a minimum distance of 20 metres on either side of the drainage works. They shall be removed in their entirety including stumps. The trees and brush shall be piled in one pile and burned onsite subject to local bylaws and guidelines of the Ministry of the Environment.

#### **11. Existing Catchbasins and Tile**

The existing catchbasins/structures located along the existing tile drain shall be removed and disposed offsite by the Contractor.

The existing tile shall be blocked at each location that it is exposed after the completion of the proposed drain or in locations approved by the Drainage Superintendent. This shall include at least one location every 150 metres.

#### **12. Restoration**

All areas disturbed by construction in cultivated fields, except the material windrowed over the trench, shall be left in a condition suitable for cultivation. All areas not in cultivated fields shall be seeded after final levelling. Final levelling or the removal of excess material shall be the responsibility of the property owner.



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### **13. Subsurface Drainage**

All existing subsurface drains encountered from the north during construction of the tile drain shall be reconnected to the proposed tile drain, unless otherwise noted on the drawings or as directed by the Drainage Superintendent. The downstream end shall be plugged to the satisfaction of the Drainage Superintendent.

For subsurface drains 100 mm and 150 mm, the upstream end of the subsurface drain shall be connected to the tile drain at a 45 degree angle. A suitable length of equivalent sized PE agricultural tubing shall be used to connect the drains. Manufactured fittings shall connect the PE tile to the existing drain and to the concrete tile. The connections shall be carefully backfilled to ensure there is adequate support under the pipe and large clumps of clay do not displace the tile. It is recommended that drainage stone be used under the connections at the tile drain.

The existing tile drain is to be plugged with concrete at each location that a subsurface drain is extended to the proposed drain. Each end is to be wrapped with filter cloth.

### **14. Environmental Considerations**

The Contractor shall take care to adhere to the following considerations.

- All excavated and stockpiled material shall be placed a minimum of 1.5 metres from the top of surface water runs or open inlets.
- All granular and erosion control materials shall be stockpiled a minimum of 3 metres from the top of surface water runs or open inlets. Material shall not be placed in surface water runs or open inlets.
- All activities, including maintenance procedures, shall be controlled to prevent the entry of petroleum products, debris, rubble, concrete, or other deleterious substances into the water. Vehicle and equipment refuelling and maintenance shall be conducted away from the channel, any surface water runs, or open inlets. All waste materials shall be stockpiled well back from the top of the bank and all surface water runs and open inlets.
- All construction within the surface water runs shall be carried out during periods of low flow. Silt fence shall be installed in the existing channel downstream of the proposed outlet of the tile drain for the duration of the construction.

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### **15. Miscellaneous**

The Contractor shall remove any cross fences necessary to carry out construction operations. Upon completion of the work, the fences shall be reconstructed using existing materials.

Pea stone shall be placed as bedding for the concrete tile where poor soil conditions are encountered, where existing channels are crossed or as directed by the Drainage Superintendent.

Any grading required to direct surface water to the proposed catchbasins shall be the responsibility of the individual property owner.

CONC. 10

LOT 15

LOT 16

LOT 17

LOT 18

LOT 19

CONC. 9

OLD WALNUT ROAD

NAUVOO ROAD

HILLY ROAD



- LEGEND**
- EXISTING CULVERT
  - DRAINAGE AREA
  - STEADMAN DRAIN No.1
  - MUNICIPAL DRAIN

30-174  
D. McGUGAN

40.48 Ha

30-176  
D. & A. McGUGAN

3.78 Ha

30-177  
M. & B. McNEIL

19.31 Ha

DICB#5  
0+337

0.81 Ha

14.72 Ha

1.62 Ha

30-178  
W. & T. DOUGLAS

29.98 Ha

STEADMAN  
DRAIN No.1

DICB#3  
0+985

0+000

6.60 Ha

30-179  
J. DOUGLAS

10.89 Ha

30-179-05  
D. CLARK  
0.81 Ha

4.65 Ha

9.51 Ha

McNEIL DOUGLAS WEST BRANCH

DICB#1  
0+296

0+420

0+317

0+085

0+000

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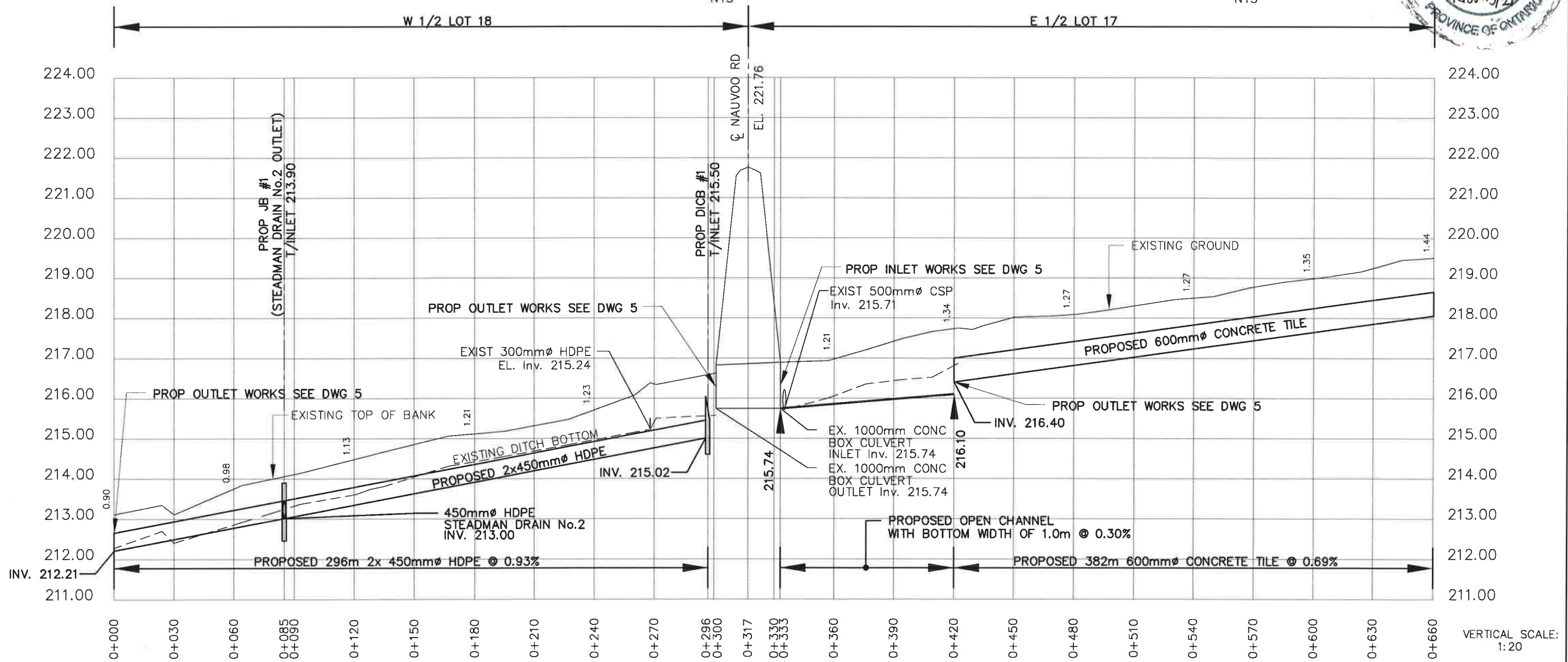
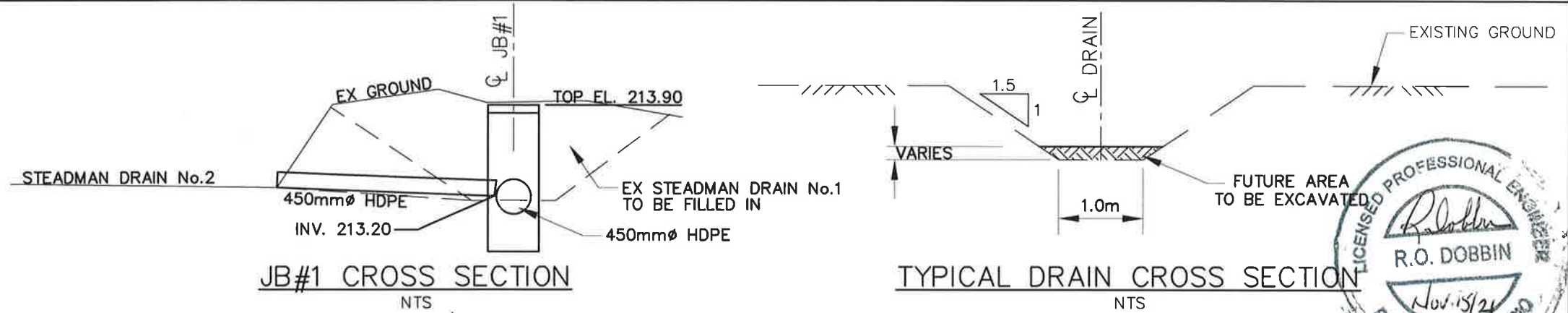
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GENERAL NOTES

- 1. BENCHMARK No.1 ELEV. 216.887  
TOP OF EXISTING CONCRETE BOX CULVERT  
UNDER NAUVOO ROAD ON STEADMAN DRAIN No.2.
- 2. UPPER NUMBERS ARE DEPTH FROM EXISTING  
GROUND TO INVERT OF THE PROPOSED CUVLERT  
OR DITCH BOTTOM.



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Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME: Steadman Drain Profile

PROJECT No. 2017-750

APPROVED R. DOBBIN	NO.	REVISIONS	DATE	BY
CHECKED R. DOBBIN	1	FOR REVIEW	SEPT, 21, 2021	CS
DRAWN C. SAUNDERS	SCALE: 1:2,000 0 20 40 60m			

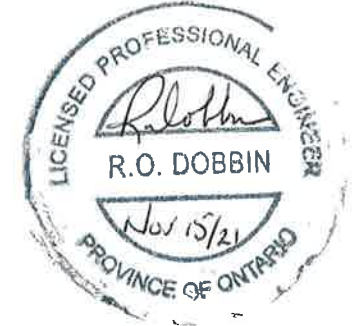
MUNICIPALITY of BROOKE-ALVINSTON

STEADMAN DRAIN No.1 - MAIN DRAIN PROFILE

2 OF 5



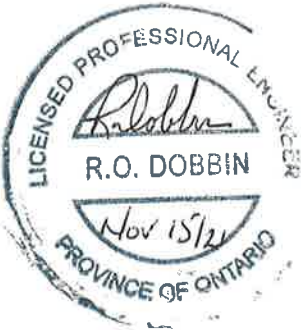
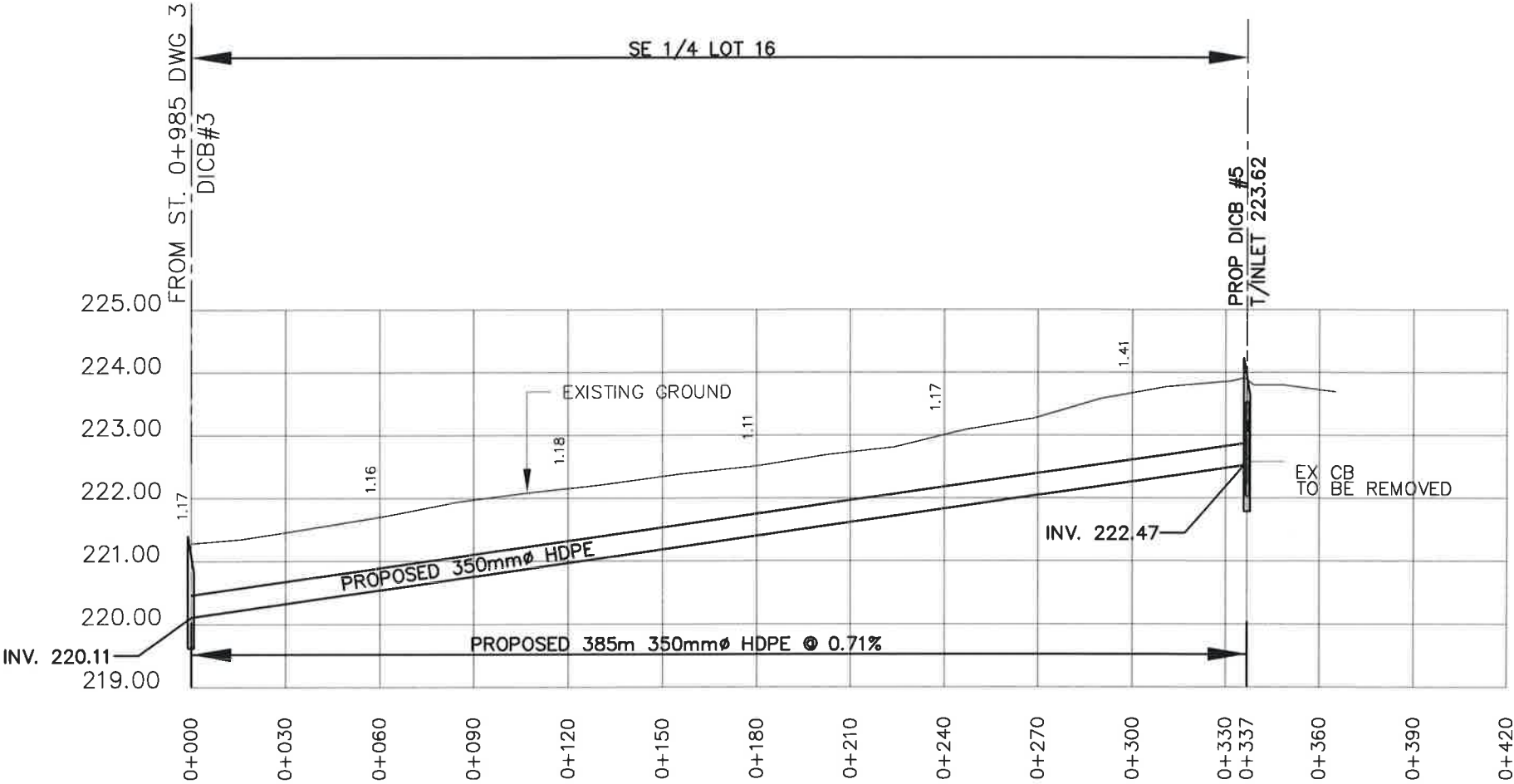
1. BENCHMARK No.1 ELEV. 216.887  
TOP OF EXISTING CONCRETE BOX CULVERT  
UNDER NAUVOO ROAD ON STEADMAN DRAIN No.2.
2. UPPER NUMBERS ARE DEPTH FROM EXISTING  
GROUND TO INVERT OF THE PROPOSED CUVLERT  
OR DITCH BOTTOM.




3  
OF 5

GENERAL NOTES

- 1. BENCHMARK No.1 ELEV. 216.887  
TOP OF EXISTING CONCRETE BOX CULVERT  
UNDER NAUVOO ROAD ON STEADMAN DRAIN No.2.
- 2. UPPER NUMBERS ARE DEPTH FROM EXISTING  
GROUND TO INVERT OF THE PROPOSED CUVLERT  
OR DITCH BOTTOM.





4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:  
Steadman Drain Profile

PROJECT No.  
2017-750

APPROVED  
R. DOBBIN

CHECKED  
R. DOBBIN

DRAWN  
C. SAUNDERS

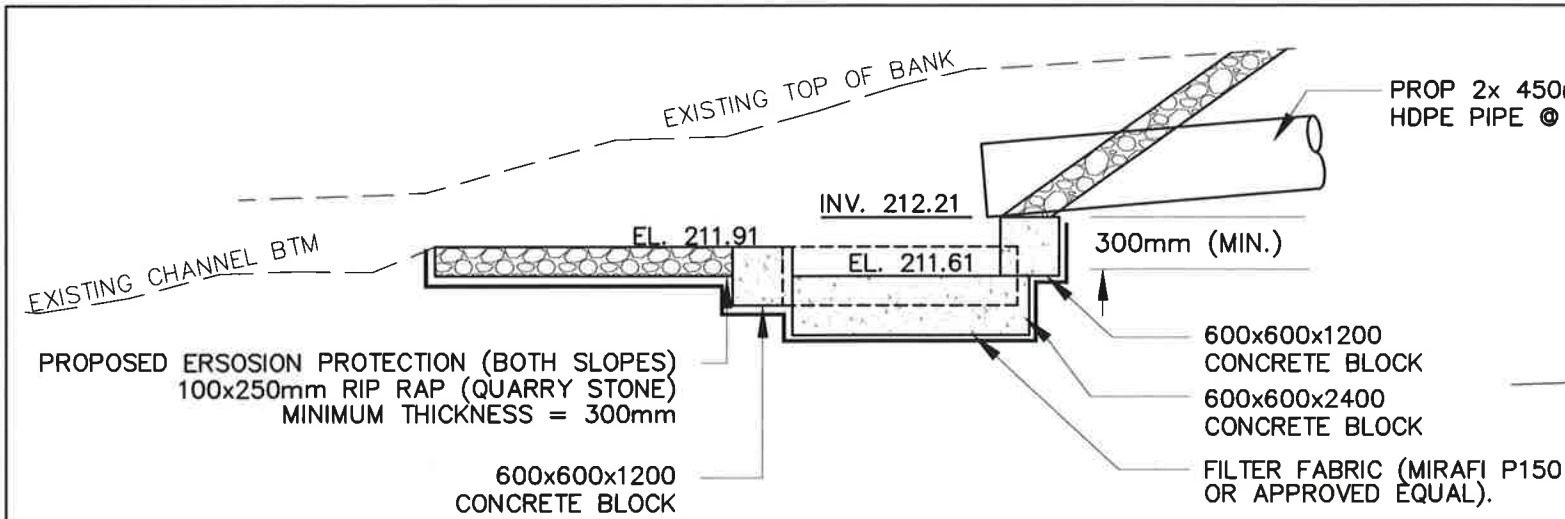
NO.	REVISIONS	DATE	BY
1	FOR REVIEW	SEPT, 21, 2021	CS

SCALE: 1:2,000  
0 20 40 60m

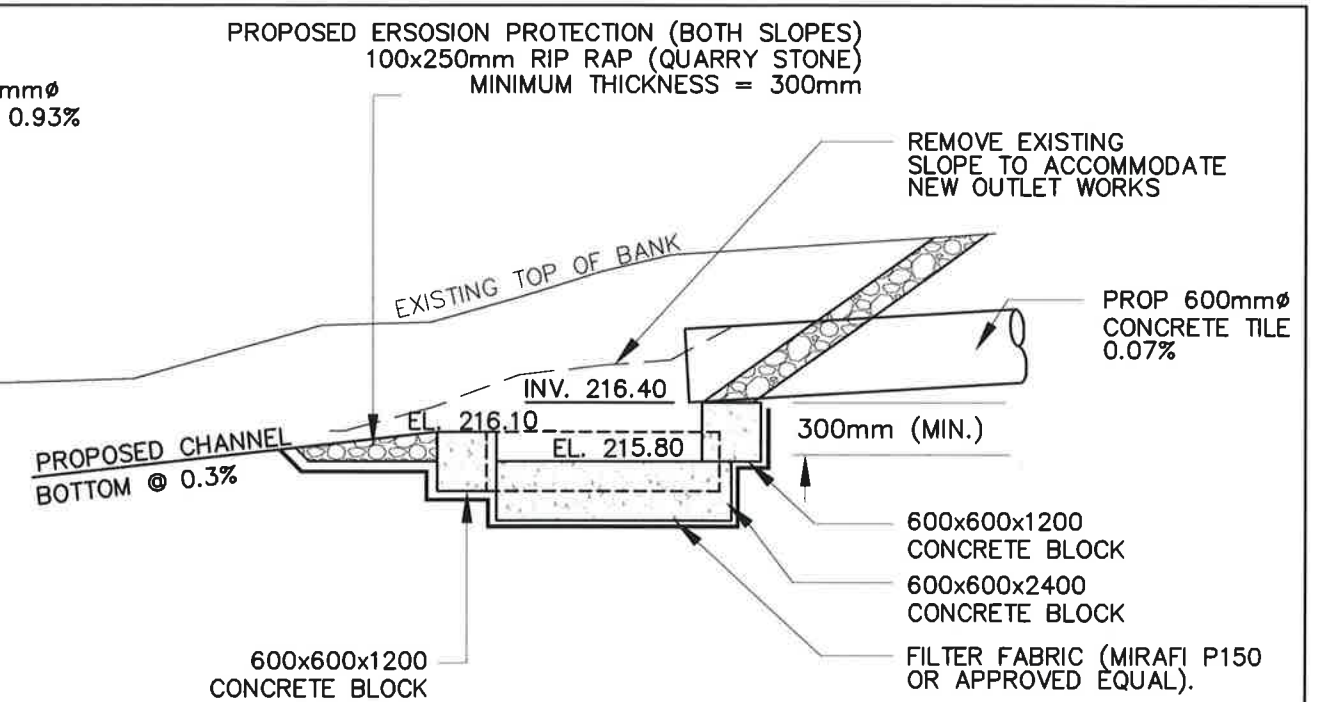
MUNICIPALITY of BROOKE-ALVINSTON

STEADMAN DRAIN No.1 - SOUTH BRANCH  
PROFILE

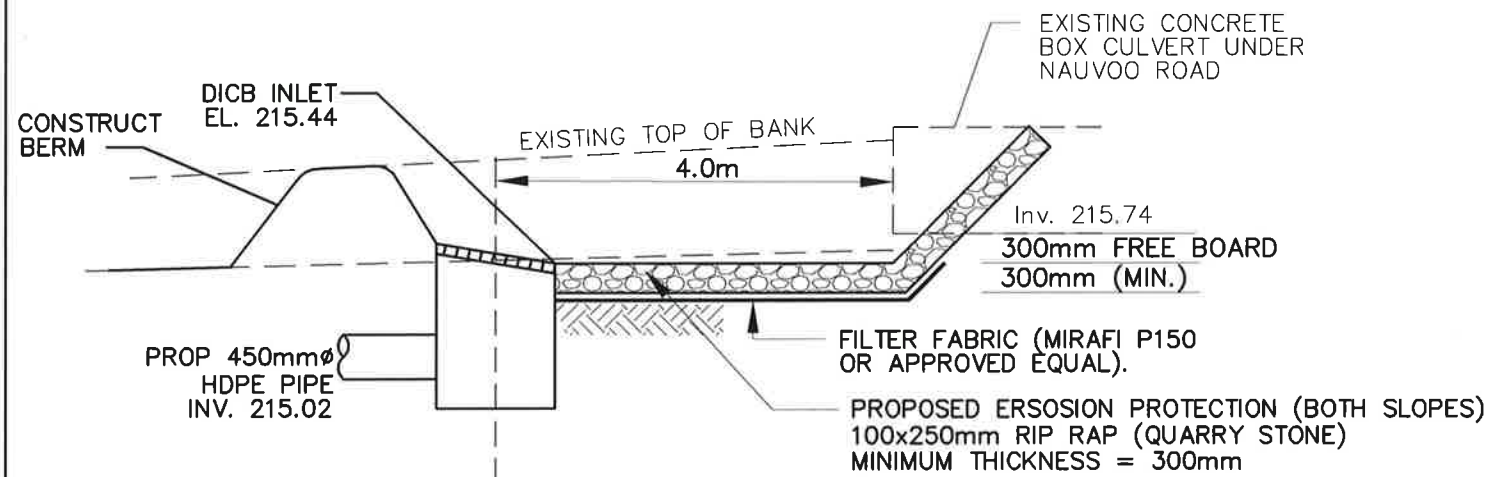
4  
OF 5



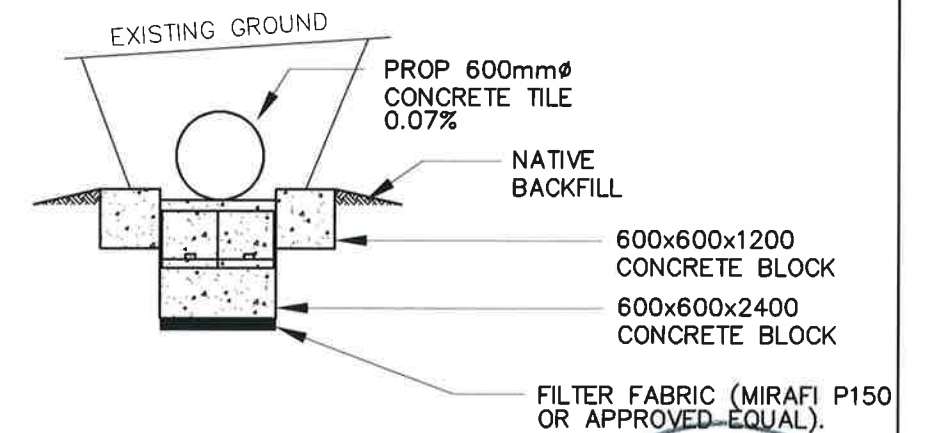
OUTLET DETAIL—STEADMAN DRAIN  
STA. 0+000  
NTS



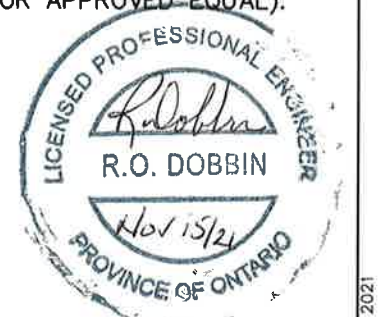
OUTLET DETAIL—STEADMAN DRAIN  
STA. 0+420  
NTS



OUTLET DETAIL—STEADMAN DRAIN  
(EAST SIDE OF NAUVOO ROAD @ STA. 0+296)  
NTS



EROSION PROTECTION  
AND OUTLET DETAIL  
STA. 0+000 & 0+420  
NTS



DRAWING NAME:  
Steadman Drain Culvert Details

4218 Oil Heritage Road  
Petrolia Ontario, N0N 1R0  
Phone: (519) 882-0032 Fax: (519) 882-2233

PROJECT No.  
2017-750

APPROVED	NO.	REVISIONS	DATE	BY
R. DOBBIN				
CHECKED	1	FINAL REPORT	MAR. 26, 2021	CS
R. DOBBIN				
DRAWN				
C. SAUNDERS				

SCALE 1:75  
0 2m

MUNICIPALITY of BROOKE-ALVINSTON  
STEADMAN DRAIN  
CULVERT DETAILS

5  
OF 5

**ENCLOSURE**



Steadman Drain No. 1  
Municipality of Brooke-Alvinston  
November 15, 2021

Estimated Net Assessment

Conc.	Lot or Part	Affect. Hect.	Roll No.	Owner	Total	Less Grant	Less Allow.	Net Assess
Main Drain								
Agricultural Lands:								
9	SW1/4 L16	17.41	30-176	D. & A. McGugan	25,526.00	8,508.67	100.00	16,917.33
	SE1/4 L16	18.40	30-177	M. & B. McNeil	36,043.00	12,014.33	6,426.00	17,602.67
	N1/2 L16	40.48	30-174	D. McGugan	34,445.00	11,481.67	100.00	22,863.33
	W1/2 L17	34.63	30-178	W. & T. Douglas	41,689.00	13,896.33	3,287.00	24,505.67
	E1/2 L17	14.67	30-179	J. Douglas	28,786.00	9,595.33	3,612.00	15,578.67
	W1/2 L18	14.67	30-180	LaSalle Farms Ltd.	54,039.00	18,013.00	3,156.00	32,870.00
Non Agricultural Lands:								
9	pt.E1/2 L17	0.81	30-17905	D. Clark	920.00			920.00
	pt.W1/2 L18	0.21	30-08010	J. & H. Klassen	328.00			328.00
Public Lands: Roads								
	Nauvoo Road	0.95		County of Lambton	5,328.00			5,328.00
Total					227,104.00	73,509.33	16,681.00	136,913.67



Draft - For Discussion Purposes Only

# BROOKE-ALVINSTON

## 2022 MUNICIPAL DRAFT BUDGET PRESENTATION

By Stephen Ikert, Treasurer

February 3, 2022

# 2022 DRAFT BUDGET AGENDA

- What is a Budget and Why Budget
- Brooke-Alvinston - Current Position as of 2020
  - Our Size
  - Our Financial Health
  - Our Reserves and our Debt
  - Our Tax Rates
  - Government Funding Trends - OMPF, etc.
  - MPAC Property Assessment Values - no significant change
- Brooke-Alvinston - Operating Budget
  - Operating Budget Highlights
- Brooke-Alvinston - Capital Budget
  - Capital Budget Details by Department
  - Capital Budget Highlights
- Brooke-Alvinston - Water and Sewer Operating & Capital Budgets
- Conclusions



Budgeting is a complex process where we have to consider our long-term goals, our wants and needs and make sure we provide for unknowns and unexpected situations.

# What is a Budget?

- ▶ “A municipal budget is a financial plan that details the level of spending required to bring municipal services to our community and to maintain our municipal assets.”

## Why Budget?

- ▶ Legislative requirements
- ▶ Municipal resources are scarce
- ▶ Accountability
- ▶ Fiscal Management
- ▶ Internal Control

# BROOKE-ALVINSTON - SIZE

A few stats on Brooke-Alvinston...

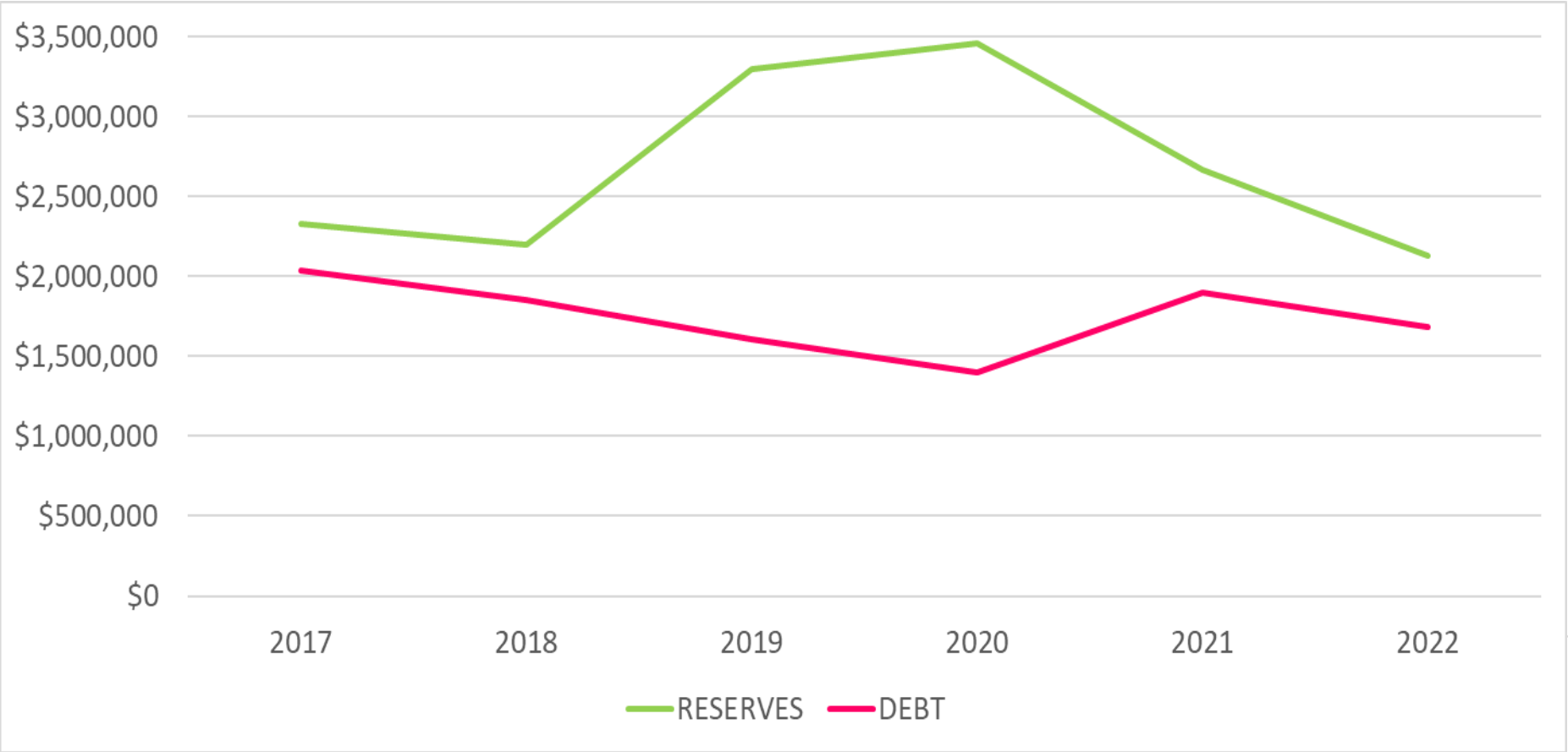
Stats	Brooke-Alvinston	Province	Average	Brooke-Alvinston Ranking
Population	2,411	13,357,208	32,264	288 of 414
Change in Pop	-137	+592,452	+1,431	390 of 414
Land Area	311 km <sup>2</sup>	155,673 km <sup>2</sup>	376 km <sup>2</sup>	178 of 414
Pop Density	7.7/km <sup>2</sup>	85.8/km <sup>2</sup>	85.8/km <sup>2</sup>	291 of 414

# ONTARIO MUNICIPAL AFFAIRS & HOUSING

2020 Financial Indicators (Compared with other Southern Lower Tier Municipalities)	Ranges	Year	Brooke-Alvinston	Average Southern Municipalities	Level of Risk
SUSTAINABILITY INDICATORS					
Total Taxes Receivable less Allowance for Uncollectibles as a % of Total Taxes Levied	Low: < 10% Mod: 10 to 15% High: >15%	2019	4.6%	8.4%	LOW
		2020	4.6%	8.3%	LOW
Net Financial Assets or Net Debt as a % of Own Source Revenues	Low: > -50% Mod: -50 to -100% High: < -100%	2019	57.6%	46.7%	LOW
		2020	65.2%	56.5%	LOW
Total Reserves and Discretionary Reserve Funds as a % of Municipal Expenses	Low: > 20% Mod: 10 to 20% High: < 10%	2019	62.9%	78.6%	LOW
		2020	69.6%	87.6%	LOW
Cash Ratio (Total Cash & Equivalents as a % of Current Liabilities)	Low: > 0.5:1 Mod: 0.5:1 to 0.25:1 High: < 0.25:1	2019	6.45:1	5.37:1	LOW
		2020	7.07:1	5.64:1	LOW
FLEXIBILITY INDICATORS					
Debt Servicing as a % of Total Revenues	Low: < 5% Mod: 5% to 10% High: > 10%	2019	5.5%	3.1%	MODERATE
		2020	4.7%	3.1%	LOW
Closing Amortization Balance as a % of Total Cost of Capital Assets	Low: < 50% Mod: 50 to 75% High: > 75%	2019	51.2%	46.2%	MODERATE
		2020	51.9%	46.6%	MODERATE
Annual Surplus / (Deficit) as a % of Own Source Revenues	Low: > -1% Mod: -1% to -30% High: < -30%	2019	6.7%	23.1%	LOW
		2020	21.3%	18.4%	LOW

# RESERVES VERSUS DEBT

	2017	2018	2019	2020	2021	2022
RESERVES	\$2,331,722	\$2,199,692	\$3,299,174	\$3,457,725	\$2,666,725	\$2,125,393
DEBT	\$2,036,963	\$1,851,213	\$1,603,150	\$1,394,748	\$1,896,788	\$1,680,631

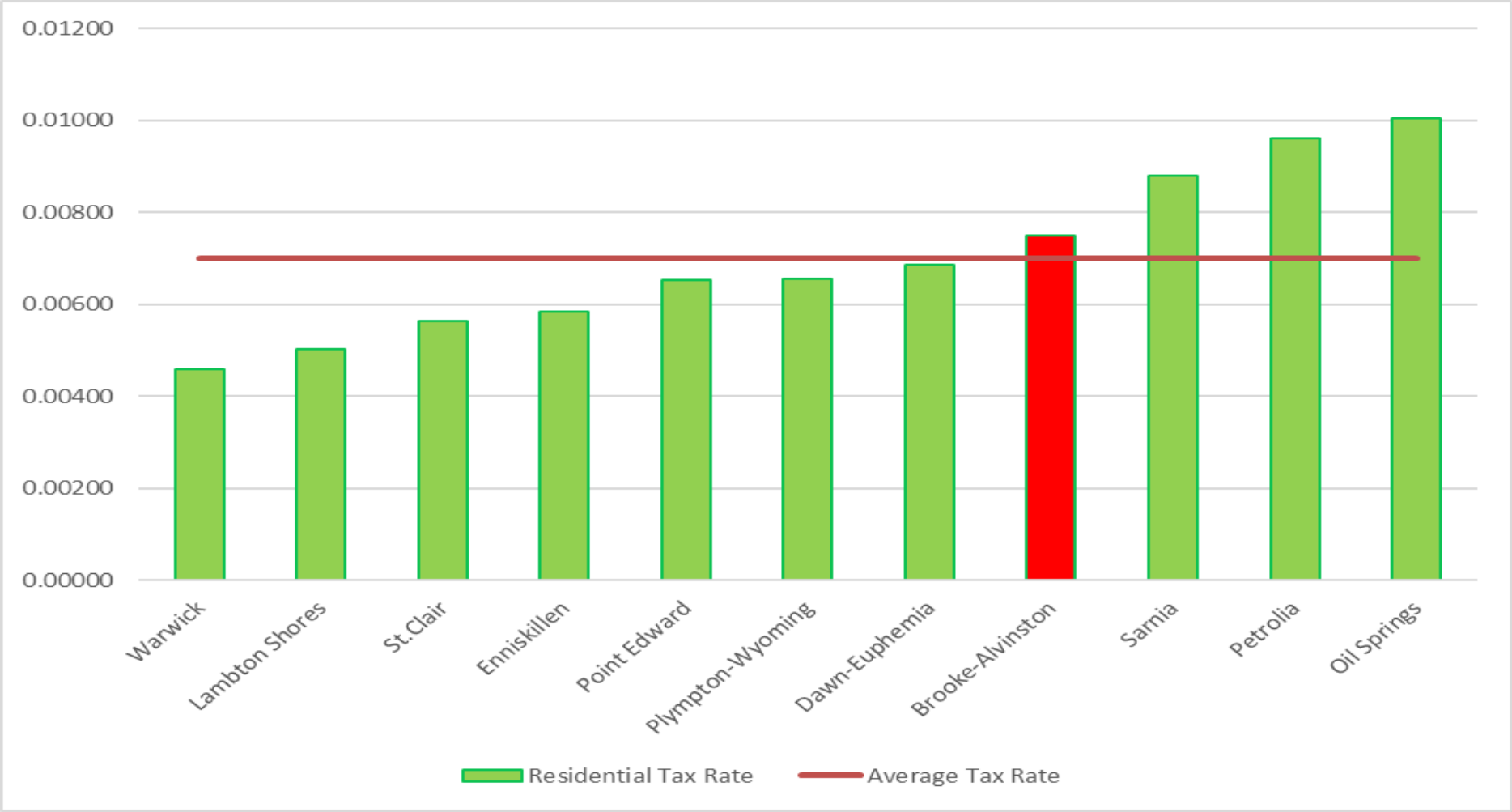




# Lambton County - 2021 Lower Tier Comparative Residential Tax Rates

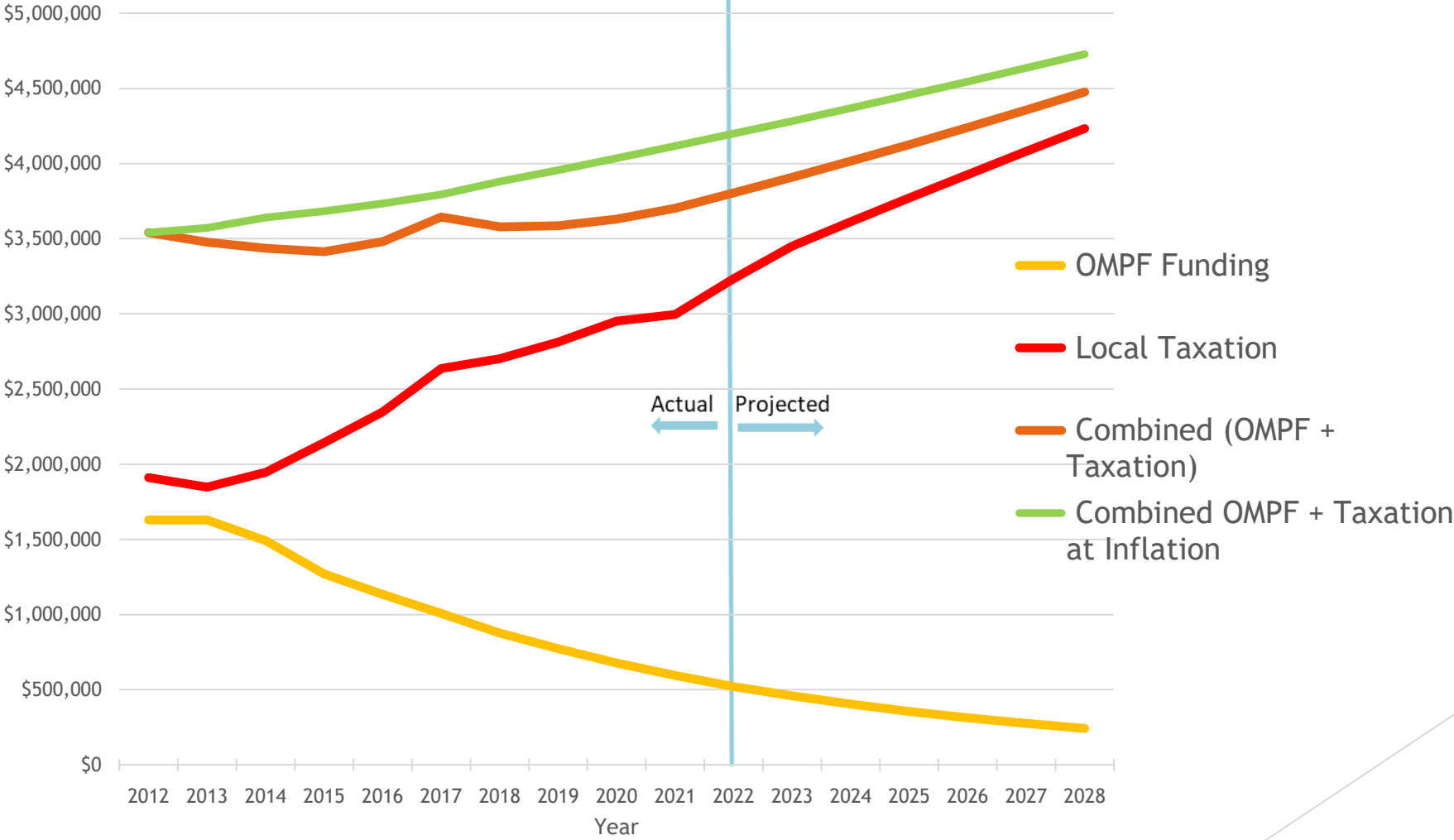
<u>Municipality</u>	<u>Residential Tax Rate</u>	<u>Rank</u>	<u>Comparative Taxes per Household (\$250,000 CVA)</u>
Warwick	0.00458931	1	\$1,147.33
Lambton Shores	0.00503064	2	\$1,257.66
St.Clair	0.00563491	3	\$1,408.73
Enniskillen	0.00583801	4	\$1,459.50
Point Edward	0.00652101	5	\$1,630.25
Plympton-Wyoming	0.00655566	6	\$1,638.92
Dawn-Euphemia	0.00685943	7	\$1,714.86
Brooke-Alvinston	0.00748736	8	\$1,871.84
Sarnia	0.00879526	9	\$2,198.82
Petrolia	0.00960687	10	\$2,401.72
Oil Springs	0.01004800	11	\$2,512.00

# County of Lambton - 2021 Lower Tier Comparative Residential Tax Rates



# PROVINCIAL FUNDING - OMPF

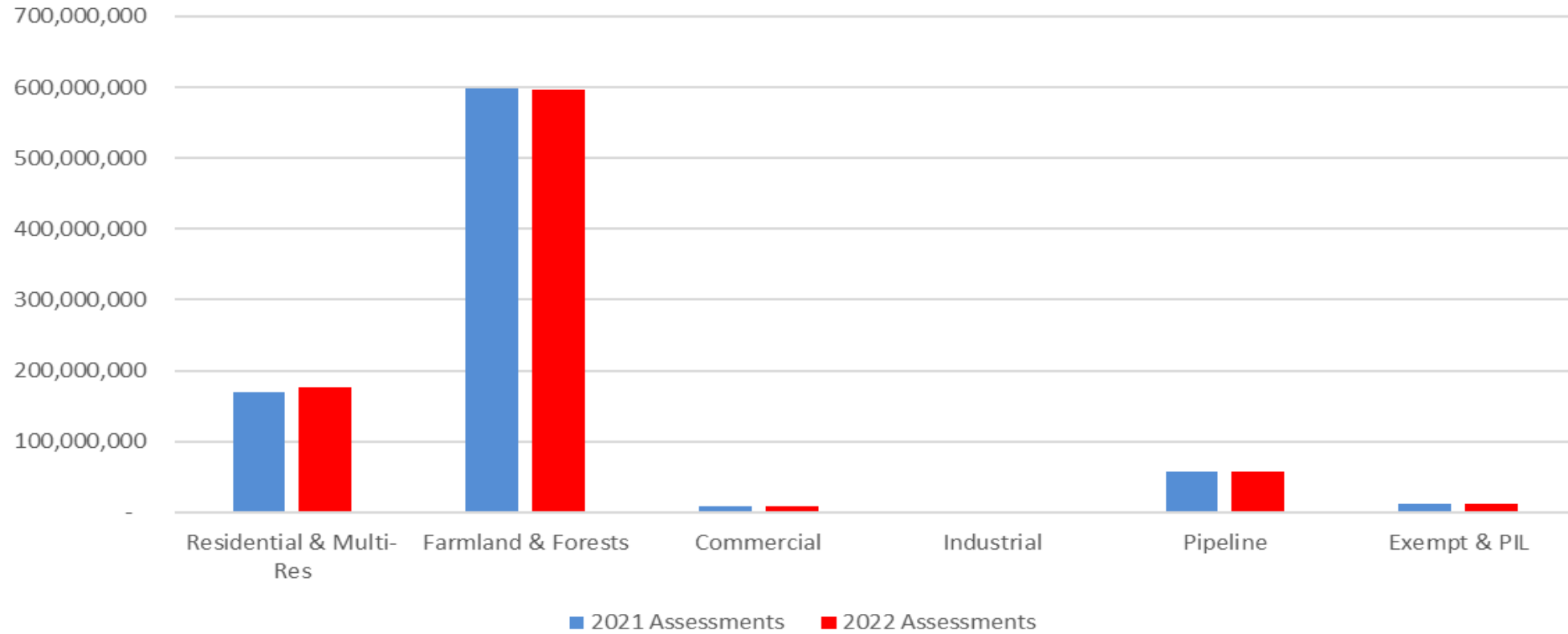
Ontario Municipal Partnership Funding (OMPF) and Taxation Comparison



# MARKET VALUE ASSESSMENTS

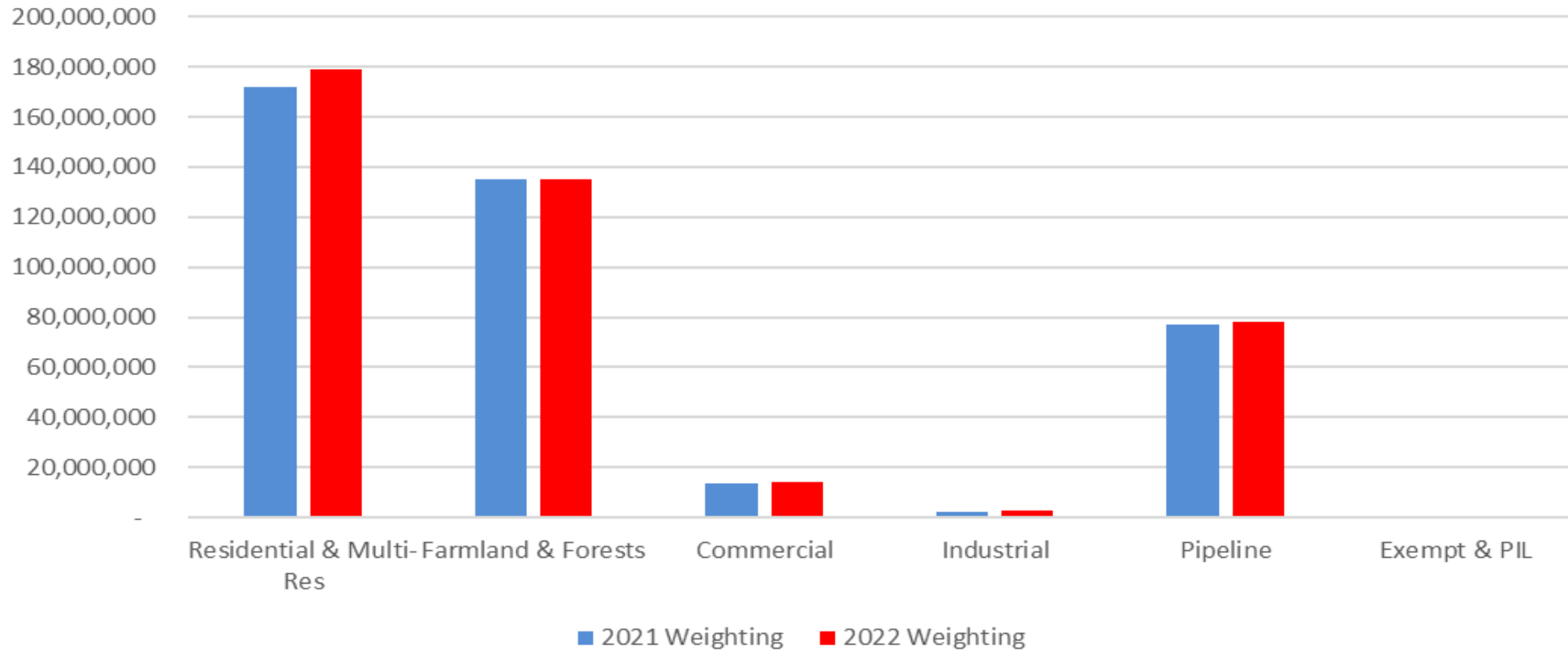
from MPAC

2021 versus 2022 Property Assessment Values

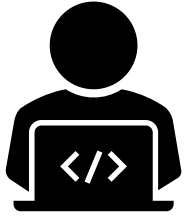


Class	2021 Assessments	2022 Assessments	Change	Percent
Residential & Multi-Res	170,066,700	176,792,856	6,726,156	3.96%
Farmland & Forests	598,592,700	596,851,700	(1,741,000)	-0.29%
Commercial	8,344,700	8,690,344	345,644	4.14%
Industrial	1,161,200	1,343,800	182,600	15.73%
Pipeline	57,386,000	58,153,000	767,000	1.34%
Exempt & PIL	11,191,900	11,181,400	(10,500)	-0.09%
<b>TOTAL</b>	<b>846,743,200</b>	<b>853,013,100</b>	<b>6,269,900</b>	<b>0.74%</b>

## 2021 versus 2022 Property Assessment Weighting



Class	2021 Weighting	2022 Weighting	Change	Percent
Residential & Multi-Res	172,139,700	178,961,856	6,822,156	3.96%
Farmland & Forests	135,286,465	134,892,999	(393,466)	-0.29%
Commercial	13,424,714	13,987,112	562,398	4.19%
Industrial	2,310,368	2,684,254	373,887	16.18%
Pipeline	77,032,384	78,061,970	1,029,586	1.34%
Exempt & PIL	-	-	-	0.00%
<b>TOTAL</b>	<b>400,193,631</b>	<b>408,588,191</b>	<b>8,394,561</b>	<b>2.10%</b>



# GENERAL OPERATING BUDGET



**GENERAL BUDGET EXPENDITURES**
**GENERAL GOVERNMENT**

		2021 BUDGET (1)	2021 PROJECTIONS (2)	BUDGET VS PROJECTIONS (3)	2022 BUDGET (4)	2022 VS 2021 BUDGET (5)	REFERENCE
1	COUNCIL	42,410	32,563	(9,847)	44,410	2,000	TAB 5
2	COUNCIL SUPPORT	174,400	166,279	(8,121)	188,525	14,125	TAB 5
3	ADMINISTRATION	332,598	300,922	(31,676)	349,000	16,402	TAB 5
		<b>549,408</b>	<b>499,765</b>	<b>(49,643)</b>	<b>581,935</b>	<b>32,527</b>	

**PROTECTION**

4	FIRE - ALVINSTON STATION	249,569	168,283	(81,286)	247,550	(2,019)	TAB 6
5	FIRE - WATFORD STATION	4,785	4,620	(165)	5,340	555	TAB 6
6	FIRE - ADMINISTRATION	50,750	44,054	(6,696)	55,750	5,000	TAB 6
7	POLICE	412,364	398,901	(13,463)	394,056	(18,308)	TAB 7
8	CONSERVATION AUTHORITY	21,080	21,080	-	24,223	3,143	TAB 8
9	INSPECTIONS & CONTROL	86,400	85,113	(1,287)	49,900	(36,500)	TAB 9
10	EMERGENCY MEASURES	7,250	900	(6,350)	5,500	(1,750)	TAB 9
		<b>832,198</b>	<b>722,950</b>	<b>(109,247)</b>	<b>782,319</b>	<b>(49,879)</b>	

**TRANSPORTATION SERVICES**

11	ROADS - MATERIALS & SERVICES	782,000	715,707	(66,293)	735,500	(46,500)	TAB 10
12	PUBLIC WORKS OVERHEAD	584,532	570,802	(13,730)	703,553	119,021	TAB 10
13	VEHICLES & EQUIP	163,550	124,295	(39,255)	167,550	4,000	TAB 10
14	SNOW REMOVAL	26,500	28,925	2,425	29,500	3,000	TAB 10
15	STREET LIGHTS - ALVINSTON	13,000	11,574	(1,426)	13,000	-	TAB 11
16	STREET LIGHTS - INWOOD	6,750	5,651	(1,099)	6,750	-	TAB 11
		<b>1,576,332</b>	<b>1,456,954</b>	<b>(119,378)</b>	<b>1,655,853</b>	<b>79,521</b>	

**ENVIRONMENTAL**

17	STORM SEWER	68,252	68,252	-	68,252	-	TAB 14
18	WASTE COLLECTION/DISPOSAL	83,000	84,296	1,296	88,750	5,750	TAB 16
19	RECYCLING	79,000	78,782	(218)	80,350	1,350	TAB 16
		<b>230,252</b>	<b>231,331</b>	<b>1,078</b>	<b>237,352</b>	<b>7,100</b>	



**GENERAL BUDGET EXPENDITURES**

**HEALTH**

20	HOSPITAL/CEMETERIES - DONATIONS	850	750	(100)	5,750	4,900	TAB 17
21	CEMETERY OPERATIONS	85,513	85,513	-	85,700	187	TAB 17
		86,363	86,263	(100)	91,450	5,087	

**RECREATION AND CULTURAL**

22	CANADA DAY	18,250	11,000	(7,250)	18,250	-	TAB 20
23	COMMUNITY CENTER -ARENA	358,751	397,084	38,333	458,630	99,879	TAB 18
24	CC - CONCESSION/VENDING	500	1,355	855	1,500	1,000	TAB 18
25	INWOOD REC	9,755	4,779	(4,976)	6,930	(2,825)	TAB 18
26	LIBRARY - ALVINSTON	6,737	6,370	(367)	8,495	1,758	TAB 19
27	LIBRARY - INWOOD	4,990	3,930	(1,060)	6,685	1,695	TAB 19
		398,983	424,517	25,534	500,490	101,507	

**PLANNING AND DEVELOPMENT**

28	PLANNING & ZONING	23,000	14,755	(8,245)	35,000	12,000	TAB 21
29	COMMERCIAL INDUSTRIAL	12,000	6,064	(5,936)	13,000	1,000	TAB 22
30	POST OFFICE	48,000	45,080	(2,920)	48,000	-	TAB 23
31	AGRICULTURE & REFORESTATION	34,250	43,888	9,638	38,000	3,750	TAB 24
32	MUNICIPAL DRAIN LOANS	-	-	-	-	-	TAB 24
33	MUNICIPAL DRAIN WORK	430,000	455,000	25,000	470,000	40,000	TAB 24
34	TILE DRAIN LOANS	6,000	6,091	91	6,000	-	TAB 24
		553,250	570,879	17,629	610,000	56,750	

**OTHER/RESERVES**

35	RESERVES	108,000	113,000	5,000		(108,000)	TAB 3
		108,000	113,000	5,000	-	(108,000)	

**36 TOTAL EXPENDITURES**

4,334,786	4,105,658	(229,128)	4,459,399	124,613
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**GENERAL BUDGET REVENUES**

**FEES AND CHARGES**

		2021 BUDGET (1)	2021 PROJECTIONS (2)	BUDGET VS PROJECTIONS (3)	2022 BUDGET (4)	2022 VS 2021 BUDGET (5)	REFERENCE
37	GENERAL GOVERNMENT	13,000	12,480	(520)	11,200	(1,800)	TAB 5
38	INSPECTIONS & CONTROL	65,500	38,042	(27,458)	45,500	(20,000)	TAB 9
39	TRANSPORTATION	2,500	63,590	61,090	2,500	-	TAB 10
40	WASTE COLLECTION & RECYCLYING	-	2,660	2,660	-	-	TAB 16
41	CEMETERY	85,513	85,513	-	85,700	187	TAB 17
42	COMMUNITY CENTER - ALVINSTON	85,550	134,030	48,480	155,800	70,250	TAB 18
43	CC - CONCESSION/VENDING	800	836	36	2,100	1,300	TAB 18
44	COMMUNITY CENTER - INWOOD	-	-	-	-	-	TAB 18
45	CANADA DAY	13,250	6,000	(7,250)	13,250	-	TAB 20
46	PLANNING FEES	12,500	29,229	16,729	9,500	(3,000)	TAB 21
47	HANGING BASKETS	2,520	2,860	340	2,860	340	TAB 22
48	POST OFFICE	60,000	63,089	3,089	60,000	-	TAB 23
49	TREE PROGRAM	2,000	8,572	6,572	5,000	3,000	TAB 24
50	MUNICIPAL DRAIN BILLINGS	330,000	300,000	(30,000)	330,000	-	TAB 24
51	TILE DRAIN LOANS	6,000	6,091	91	6,000	-	TAB 24

**MUNICIPAL**

		679,133	752,991	73,858	729,410	50,277	
52	ALVINSTON FIRE STATION	48,051	33,963	(14,088)	48,528	477	TAB 6
53	COUNTY POLICING GRANT, etc.	11,910	11,910	-	11,910	-	TAB 7
54	DONATIONS	-	315	315	-	-	TAB 6
		59,961	46,188	(13,773)	60,438	477	

<b>BROOKE-ALVINSTON</b>		<b>2022 DRAFT OPERATING BUDGET</b>					REFERENCE
<b>GENERAL BUDGET REVENUES</b>		2021 BUDGET (1)	2021 PROJECTIONS (2)	BUDGET VS PROJECTIONS (3)	2022 BUDGET (4)	2022 VS 2021 BUDGET (5)	
ONTARIO FUNDING							
55	COVID-19 FUNDING	17,000	61,249	44,249	-	(17,000)	TAB 4
56	FIRE GRANT	-	5,225	5,225	-	-	TAB 4
57	OTHER	-	5,000	5,000	-	-	TAB 4
58	OMRFA DRAIN SUPER GRANT	15,000	16,917	1,917	15,000	-	TAB 24
59	OMAFRA - DRAIN SUBSIDY GRANTS	140,000	155,000	15,000	140,000	-	TAB 24
60	OMPF - GRANT	594,100	594,100	-	521,700	(72,400)	TAB 4
		766,100	837,490	71,390	676,700	(89,400)	
CANADA FUNDING							
61	CANADA DAY	5,000	5,000	-	5,000	-	TAB 4
		5,000	5,000	-	5,000	-	
OTHER							
62	LICENCES, PERMITS, RENTS	13,983	15,512	1,529	14,283	300	TAB 4
63	FINES AND PENALTIES	55,000	49,443	(5,557)	45,000	(10,000)	TAB 4
64	OTHER REVENUES	34,500	39,402	4,902	34,000	(500)	TAB 4
AREA RATINGS							
65	ALVINSTON AREA RATING	43,610	44,306	696	46,832	3,223	TAB 2,4
66	INWOOD AREA RATING	14,451	14,451	0	14,934	483	TAB 2,4
		58,061	58,757	696	61,766	3,706	
RESERVES/RESERVE FUNDS/FINANCING							
67	RESERVES	-	-	-	406,000	406,000	TAB 3
		-	-	-	406,000	406,000	
TAXATION							
68	ADJUSTMENTS/WRITE-OFFS	(25,000)	(61,674)	(36,674)	(90,000)	(65,000)	TAB 4
69	SUPPLEMENTAL	5,000	43,501	38,501	20,000	15,000	TAB 4
70	UTILITY TRANSMISSION	15,000	15,412	412	15,000	-	TAB 4
		(5,000)	(2,762)	2,238	(55,000)	(50,000)	
71	TOTAL REVENUES	1,666,738	1,802,022	135,284	1,977,597	310,860	
NET EXPENDITURES OVER REVENUE		(2,668,048)	(2,303,636)	364,413	(2,481,802)	186,247	

# GENERAL OPERATING BUDGET SUMMARY

- ▶ Overall the total Operating Expenditures are budgeted to be up by almost \$125,000; the total Operating Revenue is also Budgeted to be down by just over \$95,000, but the \$406,000 Reserve Contribution from the 2021 Budgeted Surplus reserve account means there is an overall net increase of just over \$186,000 to the 2022 Operating Budget.
- ▶ The ongoing COVID-19 pandemic will continue to place uncertainty on the 2022 Operating Budget as it did on the 2021 and 2020 Operating Budgets.



# GENERAL CAPITAL BUDGET

<b>BROOKE-ALVINSTON</b>		<b>2022 DRAFT CAPITAL BUDGET</b>					REFERENCE
<b>GENERAL BUDGET EXPENDITURES</b>		2021 BUDGET	2021 PROJECTIONS	BUDGET VS PROJECTIONS	2022 BUDGET	2022 VS 2021 BUDGET	
		(1)	(2)	(3)	(4)	(5)	
GENERAL GOVERNMENT							
1	ADMINISTRATION	10,000	-	(10,000)	60,000	50,000	TAB 5
		10,000	-	(10,000)	60,000	50,000	
PROTECTION							
2	FIRE - ALVINSTON	245,500	152,590	(92,910)	470,000	224,500	TAB 6
3	FIRE - INWOOD	40,000	33,710	(6,290)	-	(40,000)	TAB 6
		285,500	186,300	(99,200)	470,000	184,500	
TRANSPORTATION SERVICES							
4	ROADS - MATERIALS & SERVICES	3,414,130	4,508,750	1,094,620	557,775	(2,856,355)	TAB 10
5	VEHICLES & EQUIP	651,000	647,168	(3,832)	156,000	(495,000)	TAB 10
		4,065,130	5,155,918	1,090,788	713,775	(3,351,355)	
RECREATION AND CULTURAL							
6	COMMUNITY CENTER -ARENA	426,500	407,774	(18,726)	88,000	(338,500)	TAB 18
7	INWOOD REC	15,000	3,995	(11,005)	35,000	20,000	TAB 18
		441,500	411,770	(29,730)	123,000	(318,500)	
OTHER/RESERVES							
9	RESERVES	-	-	-	62,818	62,818	TAB 18
		-	-	-	62,818	62,818	
10	TOTAL EXPENDITURES	4,802,130	5,753,988	951,858	1,429,593	(3,372,537)	

**GENERAL BUDGET REVENUES**

**MUNICIPAL**

		2021 BUDGET (1)	2021 PROJECTIONS (2)	BUDGET VS PROJECTIONS (3)	2022 BUDGET (4)	2022 VS 2021 BUDGET (5)	REFERENCE
11	ALVINSTON FIRE STATION	39,280	24,414	(14,866)	75,200	35,920	TAB 6
12	INWOOD FIRE STATION	155,000	154,166	(834)	-	(155,000)	TAB 6
13	DONATIONS	235,000	235,581	581	-	(235,000)	TAB 18

**ONTARIO FUNDING**

		429,280	414,161	(15,119)	75,200	(354,080)	
14	OCIF - GRANT	137,421	137,421	-	273,665	136,244	TAB 10
	MUNICIPAL MODERNIZATION	-	-	-	57,715	57,715	TAB 5 & 10
15	OTHER	-	10,702	10,702	62,818	62,818	TAB 18
16	PROVINCIAL - ICIP -ROADS	1,029,607	1,029,607	-	-	(1,029,607)	TAB 10
17	PROVINCIAL - ICIP - COVID-19	20,000	-	(20,000)	20,000	-	TAB 6 & 18
		1,187,028	1,177,730	(9,298)	414,198	(772,830)	

**CANADA FUNDING**

18	CANADA - ICIP - Roads	1,853,478	1,853,478	-	-	(1,853,478)	TAB 10
19	CANADA - ICIP - COVID-19	80,000	-	(80,000)	80,000	-	TAB 6 & 18
20	FEDERAL - OTHER	-	11,000	11,000	-	-	TAB 18
21	FEDERAL GAS TAX	-	-	-	-	-	TAB 10
		1,933,478	1,864,478	(69,000)	80,000	(1,853,478)	

**RESERVES/RESERVE FUNDS/FINANCING**

22	RESERVES	924,000	924,000	-	218,150	(705,850)	TAB 3
23	OTHER	-	30,862	30,862	-	-	TAB 4
24	FINANCING	-	650,000	650,000	-	-	TAB 10
		924,000	1,604,862	680,862	218,150	(705,850)	

**25 TOTAL REVENUES**

**NET EXPENDITURES OVER REVENUE**

		4,473,786	5,061,231	587,445	787,548	(3,686,238)	
		(328,344)	(692,757)	(364,413)	(642,045)	(313,701)	

# General Capital Budget Detail by Department

<u>DEPARTMENT</u>	<u>ACCOUNT DESCRIPTION</u>	<u>AMOUNT</u>	<u>COMMENTS</u>
GENERAL GOVERNMENT	EQUIPMENT	60,000	New Server, telephone sys, safety training sys.
		<b>60,000</b>	Have been approved for Municipal Modernization grant up to \$29,000
BROOKE FIRE RESCUE	BUNKER GEAR	10,000	4 sets @ \$2,500 each
	AIR PACKS	15,000	upgrade last 8 sets to 4.5
	VEHICLE	300,000	new pumper - secure chassis
	BUILDING	120,000	Upgrades (funded by ICIP grant )
	GENERAL EQUIPMENT	25,000	Other Equipment, Garage door openers and rope rescue, etc.
		<b>470,000</b>	
PUBLIC WORKS	BUILDING IMPROVEMENTS	20,000	Paint MTO Driveshed
	DIGITIZE ASSETS & IMPROVE AM	52,775	GIS map & Asset Mgmt -Citywide
	TAR/CHIP PROGRAM	50,000	Tar/Chip Section Oil Springs Line
	ROAD REHABILITATION	300,000	LaSalle Line West - 1st 1.9 km
	MAJOR CULVERT CONSTRUCTION	50,000	Pipes - LaSalle - Little Ireland West
	MAJOR CULVERT CONSTRUCTION	30,000	LaSalle Box Culvert
	IN TOWN WORK	10,000	Tar/Chip Sydenham Street
	ENGINEERING	15,000	Railroad & Walnut Streets Engineering
	CONSTRUCTION MATERIAL	30,000	Sidewalks
	TRACTOR	6,000	Tractor upgrade
	PLOW TRUCK(S)	130,000	Truck Chassis
	MISC EQUIPMENT	20,000	Bush hog
		<b>713,775</b>	
RECREATION & CULTURE	FURNITURE	10,000	Tables/Chairs
	ICE SYSTEM REFURBISH	60,000	Brine header for ice surface
	BUILDING UPGRADES	18,000	Ice surface door/floor, office floor, awning over entrance
	INWOOD PARK FACILITIES	15,000	Inwood Bathroom Renos
	INWOOD PARK GROUNDS	20,000	Resurface basketball court
		<b>123,000</b>	
<b>TOTAL CAPITAL - TAXATION BUDGET</b>		<b>1,366,775</b>	



# GENERAL CAPITAL BUDGET HIGHLIGHTS

- ▶ An aggressive 2021 Capital Budget made possibly only due to the ICIP Grant that we were given and due to purchases that were planned for 2020 being deferred to 2021. Also in 2021 we went over our Capital Budget by almost \$1,000,000 which was financed by borrowing and Reserve withdrawals.
- ▶ The 2022 Budgeted Capital Expenditures are lower by almost \$3.4 million and come in at just over \$1.4 million - a more “typical” Capital Budget.
- ▶ Likewise, our 2022 Budgeted Capital Revenues are down also \$3.7 million

# COMBINED DRAFT OPERATING & CAPITAL BUDGETS - TOTAL TAX REQUIREMENTS

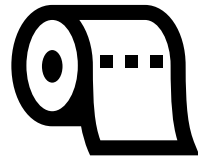
	<b>2022 DRAFT COMBINED BUDGET</b>				
	2021 BUDGET (1)	2021 PROJECTIONS (2)	BUDGET VS PROJECTIONS (3)	2022 BUDGET (4)	2022 VS 2021 BUDGET (5)
<b><u>OPERATING</u></b>					
TOTAL OPERATING REVENUES	1,666,738	1,802,022	135,284	1,977,597	310,860
TOTAL OPERATING EXPENDITURES	4,334,786	4,105,658	(229,128)	4,459,399	124,613
NET OPERATING EXPENDITURES OVER REVENUE	(2,668,048)	(2,303,636)	364,413	(2,481,802)	186,247
<b><u>CAPITAL</u></b>					
TOTAL CAPITAL REVENUES	4,473,786	5,061,231	587,445	787,548	(3,686,238)
TOTAL EXPENDITURES	4,802,130	5,753,988	951,858	1,429,593	(3,372,537)
NET CAPITAL EXPENDITURES OVER REVENUE	(328,344)	(692,757)	(364,413)	(642,045)	(313,701)
COMBINED - TAX REQUIREMENT	(2,996,392)	(2,996,392)	(0)	(3,123,847)	(127,454)

# General Draft Budget Conclusions

- ▶ The 2022 Draft Budget proposes to raise \$3,123,847 in taxes
- ▶ This is \$127,458 more in taxes than in 2021 or a 4.25% increase.
- ▶ This would result in a 2.11% increase our local/municipal tax rate.
- ▶ For each \$100,000 of Assessed Residential Value taxes would increase by \$15.81
- ▶ For each \$100,000 of Assessed Farm Value taxes would increase by \$3.57
- ▶ The Draft Budget strives to be Fiscally Responsible while maintaining the levels of service our residents have come to expect and continuing to Invest in our aging infrastructure.
- ▶ We continue to use Reserves to minimize tax increases.
- ▶ There is still some unknowns and variability of budgeted expenditures and revenues due to the continued effects and uncertainty of the pandemic.



# WATER & SEWER BUDGET



**BROOKE-ALVINSTON****2022 DRAFT OPERATING BUDGET**

		2021 BUDGET (1)	2021 PROJECTIONS (2)	BUDGET VS PROJECTIONS (3)	2022 BUDGET (4)	2022 VS 2021 BUDGET (5)	REFERENCE
<b>COMBINED WATER &amp; SEWER BUDGETS</b>							
<b>WATER &amp; SEWER REVENUE</b>							
1	WASTEWATER - ALVINSTON	205,397	202,095	(3,302)	213,563	8,166	TAB 12
2	ALVINSTON OTHER SEWER CHGS	5,840	5,840	-	5,840	-	TAB 12
3	WASTEWATER - INWOOD	59,762	58,069	(1,693)	62,152	2,390	TAB 13
4	INWOOD SEWER CAPITAL & CONNECTION CHG	62,832	71,292	8,460	61,276	(1,557)	TAB 13
5	WATER - ALVINSTON	335,881	336,499	618	341,903	6,022	TAB 15
<b>TOTAL WATER &amp; SEWER REVENUES</b>		<b>669,711</b>	<b>673,795</b>	<b>4,084</b>	<b>684,733</b>	<b>15,022</b>	
<b>WATER &amp; SEWER EXPENDITURES</b>							
6	WASTE WATER - ALVINSTON	169,243	183,327	14,084	168,375	(868)	TAB 12
7	WASTE WATER - INWOOD	116,559	110,880	(5,679)	115,122	(1,437)	TAB 13
8	WATER - ALVINSTON	303,603	281,537	(22,066)	306,059	2,456	TAB 15
9	TRANSFERS TO RESERVES	80,307	98,051	17,744	95,178	14,870	TAB 15
<b>TOTAL WATER &amp; SEWER EXPENDITURES</b>		<b>669,711</b>	<b>673,795</b>	<b>4,084</b>	<b>684,733</b>	<b>15,022</b>	
<b>NET WATER &amp; SEWER OPERATING SURPLUS</b>		<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>0</b>	

**BROOKE-ALVINSTON****2022 DRAFT CAPITAL BUDGET****2022 COMBINED WATER & SEWER B****WATER & SEWER REVENUE**

		2021 BUDGET (1)	2021 PROJECTIONS (2)	BUDGET VS PROJECTIONS (3)	2022 BUDGET (4)	2022 VS 2021 BUDGET (5)	REFERENCE
3	RESERVE FUND - Withdrawals	-	-	-	173,000	173,000	TAB 12,13,15
5	LOAN PROCEEDS	-	-	-	125,000	125,000	TAB 12 & 13
7	ALVINSTON OTHER SEWER CHGS	-	-	-	45,000	45,000	TAB 12
11	WATER - ALVINSTON - OTHER CHGS	-	21,524	21,524	-	-	TAB 15

**TOTAL WATER & SEWER REVENUES****WATER & SEWER EXPENDITURES**

		-	21,524	21,524	343,000	343,000	
12	WASTE WATER - ALVINSTON	-	-	-	225,000	225,000	TAB 12
13	WASTE WATER - INWOOD	-	-	-	45,000	45,000	TAB 13
14	WATER - ALVINSTON	-	13,642	13,642	73,000	73,000	TAB 15
15	RESERVE FUND - Contributions	-	7,882	7,882	-	-	TAB 15

**TOTAL WATER & SEWER EXPENDITURES****NET EXPENDITURES OVER REVENUE**

		-	-	-	-	-	
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# Questions?

# Comments?

**MUNICIPALITY OF BROOKE-ALVINSTON**

**2022 DRAFT BUDGET**

**DETAILED BY DEPARTMENT**

**DRAFT - FOR DISCUSSION PURPOSES ONLY**



## 2022 Budget Summary

## BROOKE-ALVINSTON COMBINED

## OPERATIONS

## CAPITAL

## TOTAL BUDGET

CLASSIFICATION		2021			!	2021			!	2021		
		2021 BUDGET	Projections	2022 BUDGET		2021 BUDGET	Projections	2022 BUDGET		2021 BUDGET	Projections	2022 BUDGET
		(1)	(2)	(4)		(5)	(6)	(8)		(9)	(10)	(12)
<b>GENERAL BUDGET</b>												
<b>EXPENDITURES</b>												
GENERAL GOVERNMENT												
1	COUNCIL	42,410	32,563	44,410						42,410	32,563	44,410
2	COUNCIL SUPPORT	174,400	166,279	188,525						174,400	166,279	188,525
3	ADMINISTRATION	332,598	300,922	349,000		10,000	-	60,000		342,598	300,922	409,000
		549,408	499,765	581,935		10,000	-	60,000		559,408	499,765	641,935
PROTECTION												
4	FIRE - ALVINSTON	249,569	168,283	247,550		245,500	152,590	470,000		495,069	320,873	717,550
5	FIRE - INWOOD	-	-	-		40,000	33,710	-		40,000	33,710	-
6	FIRE - WATFORD	4,785	4,620	5,340						4,785	4,620	5,340
7	FIRE - ADMINISTRATION	50,750	44,054	55,750						50,750	44,054	55,750
8	POLICE	412,364	398,901	394,056						412,364	398,901	394,056
9	CONSERVATION AUTHORITY	21,080	21,080	24,223						21,080	21,080	24,223
10	INSPECTIONS & CONTROL	86,400	85,113	49,900						86,400	85,113	49,900
11	EMERGENCY MEASURES	7,250	900	5,500						7,250	900	5,500
		832,198	722,950	782,319		285,500	186,300	470,000		1,117,698	909,250	1,252,319
TRANSPORTATION SERVICES												
12	ROADS - MATERIALS & SERVICES	782,000	715,707	735,500		3,414,130	4,508,750	557,775		4,196,130	5,224,456	1,293,275
13	PUBLIC WORKS OVERHEAD	584,532	570,802	703,553		-	-	-		584,532	570,802	703,553
14	VEHICLES & EQUIP	163,550	124,295	167,550		651,000	647,168	156,000		814,550	771,463	323,550
15	SNOW REMOVAL	26,500	28,925	29,500		-	-	-		26,500	28,925	29,500
16	STREET LIGHTS - ALVINSTON	13,000	11,574	13,000		-	-	-		13,000	11,574	13,000
17	STREET LIGHTS - INWOOD	6,750	5,651	6,750		-	-	-		6,750	5,651	6,750
		1,576,332	1,456,954	1,655,853		4,065,130	5,155,918	713,775		5,641,462	6,612,872	2,369,628
ENVIRONMENTAL												
18	STORM SEWER	68,252	68,252	68,252						68,252	68,252	68,252
19	WASTE COLLECTION/DISPOSAL	83,000	84,296	88,750		-	-	-		83,000	84,296	88,750
20	RECYCLING	79,000	78,782	80,350		-	-	-		79,000	78,782	80,350
		230,252	231,331	237,352		-	-	-		230,252	231,331	237,352

## 2022 Budget Summary

## BROOKE-ALVINSTON COMBINED

## OPERATIONS

## CAPITAL

## TOTAL BUDGET

CLASSIFICATION	2021				!	2021				!	2021			
	2021 BUDGET	Projections	2022 BUDGET			2021 BUDGET	Projections	2022 BUDGET			2021 BUDGET	Projections	2022 BUDGET	
	(1)	(2)	(4)			(5)	(6)	(8)			(9)	(10)	(12)	
HEALTH														
21	HOSPITAL/CEMETERIES - DONATIONS	850	750	5,750						850	750	5,750		
22	CEMETERY OPERATIONS	85,513	85,513	85,700		-	-	-		85,513	85,513	85,700		
		86,363	86,263	91,450		-	-	-		86,363	86,263	91,450		
RECREATION AND CULTURAL														
23	CANADA DAY	18,250	11,000	18,250		-	-	-		18,250	11,000	18,250		
24	COMMUNITY CENTER -ARENA	358,751	397,084	458,630		426,500	407,774	88,000		785,251	804,858	546,630		
25	CC - CONCESSION/VENDING	500	1,355	1,500		-	-	-		500	1,355	1,500		
26	INWOOD REC	9,755	4,779	6,930		15,000	3,995	35,000		24,755	8,774	41,930		
27	LIBRARY - ALVINSTON	6,737	6,370	8,495		-	-	-		6,737	6,370	8,495		
28	LIBRARY - INWOOD	4,990	3,930	6,685		-	-	-		4,990	3,930	6,685		
		398,983	424,517	500,490		441,500	411,770	123,000		840,483	836,286	623,490		
PLANNING AND DEVELOPMENT														
29	PLANNING & ZONING	23,000	14,755	35,000		-	-	-		23,000	14,755	35,000		
30	COMMERCIAL INDUSTRIAL	12,000	6,064	13,000		-	-	-		12,000	6,064	13,000		
31	POST OFFICE	48,000	45,080	48,000						48,000	45,080	48,000		
32	AGRICULTURE & REFORESTATION	34,250	43,888	38,000						34,250	43,888	38,000		
33	MUNICIPAL DRAIN LOANS	-	-	-						-	-	-		
34	MUNICIPAL DRAIN WORK	430,000	455,000	470,000						430,000	455,000	470,000		
35	TILE DRAIN LOANS	6,000	6,091	6,000						6,000	6,091	6,000		
		553,250	570,879	610,000		-	-	-		553,250	570,879	610,000		
OTHER/RESERVES														
36	RESERVES	108,000	113,000	-			-	62,818		108,000	113,000	62,818		
37	RESERVE FUNDS		-	-						-	-	-		
		108,000	113,000	-		-	-	62,818		108,000	113,000	62,818		
38	TOTAL EXPENDITURES	4,334,786	4,105,658	4,459,399		4,802,130	5,753,988	1,429,593		9,136,916	9,859,646	5,888,992		

## 2022 Budget Summary

## BROOKE-ALVINSTON COMBINED

## OPERATIONS

## CAPITAL

## TOTAL BUDGET

CLASSIFICATION	2021				2021				2021		
	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET
	(1)	(2)	(4)		(5)	(6)	(8)		(9)	(10)	(12)
<b>REVENUES</b>											
<b>FEES AND CHARGES</b>											
39 GENERAL GOVERNMENT	13,000	12,480	11,200						13,000	12,480	11,200
40 INSPECTIONS & CONTROL	65,500	38,042	45,500						65,500	38,042	45,500
41 TRANSPORTATION	2,500	63,590	2,500						2,500	63,590	2,500
42 WASTE COLLECTION & RECYCLING	-	2,660	-						-	2,660	-
43 CEMETERY	85,513	85,513	85,700						85,513	85,513	85,700
44 COMMUNITY CENTER - ALVINSTON	85,550	134,030	155,800						85,550	134,030	155,800
45 CC - CONCESSION/VENDING	800	836	2,100						800	836	2,100
46 COMMUNITY CENTER - INWOOD	-	-	-						-	-	-
47 CANADA DAY	13,250	6,000	13,250						13,250	6,000	13,250
48 PLANNING FEES	12,500	29,229	9,500						12,500	29,229	9,500
49 HANGING BASKETS/COMMUNITY GROUP	2,520	2,860	2,860						2,520	2,860	2,860
50 POST OFFICE	60,000	63,089	60,000						60,000	63,089	60,000
51 TREE PROGRAM	2,000	8,572	5,000						2,000	8,572	5,000
52 MUNICIPAL DRAIN BILLINGS	330,000	300,000	330,000						330,000	300,000	330,000
53 TILE DRAIN LOANS	6,000	6,091	6,000						6,000	6,091	6,000
	679,133	752,991	729,410		-	-	-		679,133	752,991	729,410
<b>MUNICIPAL</b>											
54 ALVINSTON FIRE	48,051	33,963	48,528		39,280	24,414	75,200		87,331	58,377	123,728
55 INWOOD FIRE	-	-	-		155,000	154,166	-		155,000	154,166	-
56 COUNTY POLICING GRANT, etc.	11,910	11,910	11,910		-	-	-		11,910	11,910	11,910
57 DONATIONS	-	315	-		235,000	235,581	-		235,000	235,896	-
	59,961	46,188	60,438		429,280	414,161	75,200		489,241	460,349	135,638
<b>ONTARIO FUNDING</b>											
58 OCIF - GRANT	-	-	-		137,421	137,421	273,665		137,421	137,421	273,665
59 COVID & EFFICIENCY FUNDING	17,000	61,249	-		-	-	57,715		17,000	61,249	57,715
60 PROVINCIAL - ICIP - ROADS	-	-	-		1,029,607	1,029,607	-		1,029,607	1,029,607	-
61 PROVINCIAL - ICIP - COVID-19	-	-	-		20,000	-	20,000		20,000	-	20,000
62 PROVINCIAL - Other	-	5,000	-		-	10,702	62,818		-	15,702	62,818
63 FIRE GRANT	-	5,225	-		-	-	-		-	5,225	-
64 OMRFA DRAIN SUPERINTENDENT GRANT	15,000	16,917	15,000		-	-	-		15,000	16,917	15,000
65 OMAFRA - DRAIN SUBSIDY GRANTS	140,000	155,000	140,000		-	-	-		140,000	155,000	140,000
66 OMPF - GRANT	594,100	594,100	521,700		-	-	-		594,100	594,100	521,700
	766,100	837,490	676,700		1,187,028	1,177,730	414,198		1,953,128	2,015,220	1,090,898

## 2022 Budget Summary

## BROOKE-ALVINSTON COMBINED

## OPERATIONS

## CAPITAL

## TOTAL BUDGET

CLASSIFICATION	2021				!	2021			!	2021		
	2021 BUDGET	Projections	2022 BUDGET	2021 BUDGET		Projections	2022 BUDGET	2021 BUDGET		Projections	2022 BUDGET	
	(1)	(2)	(4)	(5)		(6)	(8)	(9)		(10)	(12)	
CANADA FUNDING												
67	CANADA - ICIP - Roads					1,853,478	1,853,478	-		1,853,478	1,853,478	-
68	CANADA - ICIP - COVID-19					80,000	-	80,000		80,000	-	80,000
69	FEDERAL - other					-	11,000	-		-	11,000	-
70	FEDERAL CCBF (formerly GAS TAX)					-	-	-		-	-	-
71	FEDERAL CANADA DAY	5,000	5,000	5,000				-		5,000	5,000	5,000
		5,000	5,000	5,000		1,933,478	1,864,478	80,000		1,938,478	1,869,478	85,000
OTHER												
72	LICENCES, PERMITS, RENTS	13,983	15,512	14,283						13,983	15,512	14,283
73	FINES AND PENALTIES	55,000	49,443	45,000						55,000	49,443	45,000
74	OTHER REVENUES	34,500	39,402	34,000						34,500	39,402	34,000
AREA RATINGS												
75	ALVINSTON AREA RATING	43,610	44,306	46,832						43,610	44,306	46,832
76	INWOOD AREA RATING	14,451	14,451	14,934						14,451	14,451	14,934
		58,061	58,757	61,766		-	-	-		58,061	58,757	61,766
RESERVES/RESERVE FUNDS/FINANCING												
77	RESERVES	-	-	406,000		924,000	924,000	218,150		924,000	924,000	624,150
78	OTHER					-	30,862	-		-	30,862	-
79	FINANCING					-	650,000	-		-	650,000	-
		-	-	406,000		924,000	1,604,862	218,150		924,000	1,604,862	624,150
TAXATION												
80	ADJUSTMENTS/WRITE-OFFS	(25,000)	(61,674)	(90,000)						(25,000)	(61,674)	(90,000)
81	SUPPLEMENTAL	5,000	43,501	20,000						5,000	43,501	20,000
82	UTILITY TRANSMISSION	15,000	15,412	15,000						15,000	15,412	15,000
		(5,000)	(2,762)	(55,000)		-	-	-		(5,000)	(2,762)	(55,000)
83	TOTAL REVENUES	1,666,738	1,802,022	1,977,597		4,473,786	5,061,231	787,548		6,140,524	6,863,253	2,765,145
84	NET EXPENDITURES OVER REVENUE	(2,668,048)	(2,303,636)	(2,481,802)		(328,344)	(692,757)	(642,045)		(2,996,392)	(2,996,392)	(3,123,847)
85	ADJUSTMENTS											
86	NET ADJUSTMENTS	-	-	-		-	-	-		-	-	-
87	TO BE RAISED BY TAXES									2,996,392	2,996,392	3,123,847
										Tax Increase	127,454	4.25%

## 2022 Budget Summary

## BROOKE-ALVINSTON COMBINED

## OPERATIONS

## CAPITAL

## TOTAL BUDGET

CLASSIFICATION	2021				2021				2021		
	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET
	(1)	(2)	(4)		(5)	(6)	(8)		(9)	(10)	(12)
<b>WATER &amp; SEWER BUDGETS</b>											
<b>ALVINSTON WATER SYSTEM</b>											
<b>ALVINSTON WATER REVENUES</b>											
1	ONTARIO - Grants	-	-	-	-	-	-	-	-	-	-
2	FEDERAL - Grants	-	-	-	-	-	-	-	-	-	-
3	RESERVE FUNDS -withdrawal	-	-	-	-	-	73,000	-	-	-	73,000
4	WATER - ALVINSTON	335,881	336,499	341,903	-	-	-	-	335,881	336,499	341,903
5	WATER - ALVINSTON - OTHER CHGS	-	-	-	-	21,524	-	-	-	21,524	-
<b>TOTAL ALVINSTON WATER REVENUES</b>											
		335,881	336,499	341,903	-	21,524	73,000	-	335,881	358,023	414,903
<b>ALVINSTON WATER EXPENDITURES</b>											
6	WATER - ALVINSTON	303,603	281,537	306,059	-	13,642	73,000	-	303,603	295,179	379,059
7	RESERVE FUNDS - contribution	32,278	54,962	35,844	-	7,882	-	-	32,278	62,844	35,844
<b>TOTAL ALVINSTON WATER EXPENDITURES</b>											
		335,881	336,499	341,903	-	21,524	73,000	-	335,881	358,023	414,903
<b>NET ALVINSTON WATER SURPLUS/EXPENDITURE</b>											
		-	-	-	-	-	-	-	-	-	-

## 2022 Budget Summary

## BROOKE-ALVINSTON COMBINED

## OPERATIONS

## CAPITAL

## TOTAL BUDGET

CLASSIFICATION	2021				2021				2021		
	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET
	(1)	(2)	(4)		(5)	(6)	(8)		(9)	(10)	(12)
<b>WATER &amp; SEWER BUDGETS</b>											
<b>ALVINSTON SEWER SYSTEM</b>											
<b>ALVINSTON SEWER REVENUES</b>											
1	ONTARIO - Grants	-	-	-	-	-	-	-	-	-	-
2	FEDERAL - Grants	-	-	-	-	-	-	-	-	-	-
3	RESERVE FUNDS -withdrawal	-	-	-	-	-	75,000	-	-	-	75,000
4	LOAN PROCEEDS	-	-	-	-	-	105,000	-	-	-	105,000
5	WASTE WATER - ALVINSTON	205,397	202,095	213,563	-	-	-	205,397	202,095	213,563	
6	ALVINSTON OTHER SEWER CHGS	5,840	5,840	5,840	-	-	45,000	5,840	5,840	50,840	
<b>TOTAL ALVINSTON SEWER REVENUES</b>		211,237	207,935	219,403	-	-	225,000	211,237	207,935	444,403	
<b>ALVINSTON SEWER EXPENDITURES</b>											
7	WASTE WATER - ALVINSTON	169,243	183,327	168,375	-	-	225,000	169,243	183,327	393,375	
8	RESERVE FUNDS - contribution	41,994	24,608	51,028	-	-	-	41,994	24,608	51,028	
<b>TOTAL ALVINSTON SEWER EXPENDITURES</b>		211,237	207,935	219,403	-	-	225,000	211,237	207,935	444,403	
<b>NET ALVINSTON SEWER SURPLUS/EXPENDITURE</b>		-	-	-	-	-	-	-	-	-	

## 2022 Budget Summary

## BROOKE-ALVINSTON COMBINED

## OPERATIONS

## CAPITAL

## TOTAL BUDGET

CLASSIFICATION	2021				2021				2021		
	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET	!	2021 BUDGET	Projections	2022 BUDGET
	(1)	(2)	(4)		(5)	(6)	(8)		(9)	(10)	(12)
<b>WATER &amp; SEWER BUDGETS</b>											
<b>INWOOD SEWER SYSTEM</b>											
<b>INWOOD SEWER REVENUES</b>											
1 ONTARIO - Grants	-	-	-		-	-	-		-	-	-
2 FEDERAL - Grants	-	-	-		-	-	-		-	-	-
3 RESERVE FUNDS -withdrawal	-	-	-		-	-	25,000		-	-	25,000
4 LOAN PROCEEDS	-	-	-		-	-	20,000		-	-	20,000
5 WASTE WATER - INWOOD	59,762	58,069	62,152				-		59,762	58,069	62,152
6 INWOOD SEWER CAPITAL & CONNECTION	62,832	71,292	61,276		-	-	-		62,832	71,292	61,276
<b>TOTAL INWOOD SEWER REVENUES</b>	<b>122,594</b>	<b>129,362</b>	<b>123,428</b>		<b>-</b>	<b>-</b>	<b>45,000</b>		<b>122,594</b>	<b>129,362</b>	<b>168,428</b>
<b>INWOOD SEWER EXPENDITURES</b>											
7 WASTE WATER - INWOOD	116,559	110,880	115,122		-	-	45,000		116,559	110,880	160,122
8 RESERVE FUNDS - contribution	6,035	18,482	8,306		-	-	-		6,035	18,482	8,306
<b>TOTAL INWOOD SEWER EXPENDITURES</b>	<b>122,594</b>	<b>129,362</b>	<b>123,428</b>		<b>-</b>	<b>-</b>	<b>45,000</b>		<b>122,594</b>	<b>129,362</b>	<b>168,428</b>
<b>NET INWOOD SEWER SURPLUS/EXPENDITURE</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>

## 2022 DRAFT CAPITAL PROPOSALS - DETAIL by DEPARTMENT

<u>DEPARTMENT</u>	<u>ACCOUNT DESCRIPTION</u>	<u>AMOUNT</u>	<u>COMMENTS</u>
GENERAL GOVERNMENT	EQUIPMENT	60,000	New Server, telephone sys, safety training sys.
		<u>60,000</u>	Have been approved for Municipal Modernization grant up to \$29,000
BROOKE FIRE RESCUE	BUNKER GEAR	10,000	4 sets @ \$2,500 each
	AIR PACKS	15,000	upgrade last 8 sets to 4.5
	VEHICLE	300,000	new pumper - secure chassis
	BUILDING	120,000	Upgrades (funded by ICIP grant )
	GENERAL EQUIPMENT	25,000	Other Equipment, Garage door openers and rope rescue, etc.
		<u>470,000</u>	
PUBLIC WORKS	BUILDING IMPROVEMENTS	20,000	Paint MTO Driveshed
	DIGITIZE ASSETS & IMPROVE AM	52,775	GIS map & Asset Mgmt -Citywide
	TAR/CHIP PROGRAM	50,000	Tar/Chip Section Oil Springs Line
	ROAD REHABILITATION	300,000	LaSalle Line West - 1st 1.9 km
	MAJOR CULVERT CONSTRUCTION	50,000	Pipes - LaSalle - Little Ireland West
	MAJOR CULVERT CONSTRUCTION	30,000	LaSalle Box Culvert
	IN TOWN WORK	10,000	Tar/Chip Sydenham Street
	ENGINEERING	15,000	Railroad & Walnut Streets Engineering
	CONSTRUCTION MATERIAL	30,000	Sidewalks
	TRACTOR	6,000	Tractor upgrade
	PLOW TRUCK(S)	130,000	Truck Chassis
	MISC EQUIPMENT	20,000	Bush hog
		<u>713,775</u>	
RECREATION & CULTURE	FURNITURE	10,000	Tables/Chairs
	ICE SYSTEM REFURBISH	60,000	Brine header for ice surface
	BUILDING UPGRADES	18,000	Ice surface door/floor, office floor, awning over entrance
	INWOOD PARK FACILITIES	15,000	Inwood Bathroom Renos
	INWOOD PARK GROUNDS	20,000	Resurface basketball court
		<u>123,000</u>	
<b>TOTAL CAPITAL - TAXATION BUDGET</b>		<b><u>1,366,775</u></b>	

## CAPITAL - WATER &amp; SEWER

ALVINSTON SEWER	PLANT EQUIPMENT	225,000	Bar Screens, sludge pumps, etc.
WATER	EQUIPMENT	13,000	Chemical Pumps & leak detection
WATER	WATER PLANT	60,000	Decommission clear well
<b>TOTAL CAPITAL - WATER AND SEWER</b>		<b><u>298,000</u></b>	



## Reserves

## 2022 RESERVE CONTRIBUTION/WITHDRAWAL PROPOSALS

	2020	-----2021 Budgeted-----			2021 Projected		-----2022 Budgeted-----		
	<u>CLOSING</u>	<u>Contributions</u>	<u>Withdrawals</u>	<u>CLOSING</u>	<u>Adjustments</u>	<u>CLOSING</u>	<u>Contributions</u>	<u>Withdrawals</u>	<u>CLOSING</u>
RESERVES									
BUDGET SURPLI	471,000	-	(424,000)	47,000	350,000	397,000	-	(397,000)	-
WORKING CAPI	874,612	-	-	874,612		874,612	-	-	874,612
ELECTION	6,000	3,000	-	9,000		9,000	-	(9,000)	-
GENERAL	430,000	45,000	-	475,000		475,000	-	-	475,000
MUNICIPAL BUI	40,000	-	-	40,000		40,000	-	-	40,000
BROOKE FIRE RI	210,000	60,000	-	270,000		270,000	-	(135,000)	135,000
ROADS	1,214,282	-	(400,000)	814,282	(350,000)	464,282	-	(80,000)	384,282
COMMUNITY CI	175,000	-	(100,000)	75,000		75,000	62,818	-	137,818
CANNABIS IMPL	15,000	-	-	15,000	5,000	20,000	-	-	20,000
HOSPITAL/CEM	3,150	-		3,150		3,150	-	(3,150)	-
ALVINSTON LIG	5,000	-	-	5,000	-	5,000	-	-	5,000
TOTAL RESERVEI	<u>3,444,044</u>	<u>108,000</u>	<u>(924,000)</u>	<u>2,628,044</u>	<u>5,000</u>	<u>2,633,044</u>	<u>62,818</u>	<u>(624,150)</u>	<u>2,071,712</u>
RESERVE FUNDS									
SEWER - Alvins	-	41,994	-	41,994	(17,386)	24,608	51,028	(75,000)	636
SEWER - Inwoc	-	6,035	-	6,035	12,446	18,482	8,306	(25,000)	1,787
WATER	148,510	32,278	-	180,788	30,566	211,354	35,844	(73,000)	174,198
ALVINSTON GE	13,681	20,000	-	33,681	-	33,681	20,000	-	53,681
TOTAL	<u>3,457,725</u>	<u>128,000</u>	<u>(924,000)</u>	<u>2,661,725</u>	<u>5,000</u>	<u>2,666,725</u>	<u>82,818</u>	<u>(624,150)</u>	<u>2,125,393</u>

## Tax Rate - Whole Municipality

## BROOKE-ALVINSTON - 2022

## TAX RATE CALCULATIONS - OWN PURPOSE

		AMOUNT TO BE RAISED PER BUDGET 3,123,847				2022 MUNICIPAL	
PROPERTY CLASS	CODE	2022 ASSESSMENT	TAX RATIO	% OF FULL RATE	WEIGHTED ASSESSMENT	TAX RATE *	TAX LEVY
Residential & Farm	RT	174,623,856	1.000000	100%	174,623,856	0.00764547	1,335,081
Multi-Residential	MT	2,169,000	2.000000	100%	4,338,000	0.01529094	33,166
Commercial (occupied)	CT	6,364,844	1.627101	100%	10,356,244	0.01243995	79,178
Commercial New Construction Taxable Full	XT	2,017,000	1.627101	100%	3,281,863	0.01243995	25,091
Commercial Vacant Units Excess Land	CU	133,000	1.627101	70%	151,483	0.00870796	1,158
Commercial New Construction Taxable Excess Land	XU	4,900	1.627101	70%	5,581	0.00870796	43
Commercial Vacant Land	CX	122,000	1.091161	100%	133,122	0.00834244	1,018
Commercial Taxable Full, Shared PIL	CH	32,000	1.627101	100%	52,067	0.01243995	398
Commercial - On Farm Business	C7	16,600	1.627101	25%	6,752	0.00310999	52
Industrial Occupied	IT	139,600	2.047572	100%	285,841	0.01565465	2,185
Industrial New Construction Taxable Full	JT	1,133,600	2.047572	100%	2,321,128	0.01565465	17,746
Industrial Vacant Units Excess Land	IU	22,300	2.047572	65%	29,680	0.01017552	227
Industrial Taxable Full, Shared PIL	IH	14,900	2.047572	100%	30,509	0.01565465	233
Industrial - On Farm Business	I7	33,400	2.047572	25%	17,097	0.00391367	131
Pipelines	PT	58,153,000	1.342355	100%	78,061,970	0.01026293	596,820
Farmland	FT	596,663,600	0.226000	100%	134,845,974	0.00172788	1,030,963
Managed Forests	TT	188,100	0.250000	100%	47,025	0.00191137	360
SUBTOTAL		841,831,700			408,588,191		
EXEMPT	E	10,434,800			Base Tax Rate	0.00764547	
COMMERCIAL PIL - FULL	CF	746,600					
TOTAL ASSESSMENT PER MPAC		853,013,100					
Total 2022 Taxes to be Raised							3,123,850
2021 amount raised							2,996,392
Increase (Decrease)							127,458
Percentage Increase							4.25%

## Special Area - Alvinston

## AREA TAX RATE CALCULATIONS - ALVINSTON

AREA TAX RATE CALCULATIONS - ALVINSTON		2022	AMOUNT TO BE RAISED				46,832	
PROPERTY CLASS	CODE	2021	2022	TAX	% OF FULL	WEIGHTED	TAX	TAX
		ASSESSMENT	ASSESSMENT	RATIO	RATE	ASSESSMENT	RATE	LEVY
Residential & Farm	RT	46,805,600	47,755,256	1.000000	100%	47,755,256	0.00075508	36,059
Multi-Residential	MT	2,073,000	2,169,000	2.000000	100%	4,338,000	0.00151015	3,276
Commercial (occupied)	CT	3,903,500	3,940,744	1.627101	100%	6,411,989	0.00122858	4,842
Commercial New Construction Taxable Full	XT	1,236,200	1,236,200	1.627101	100%	2,011,422	0.00122858	1,519
Commercial Vacant Units Excess Land	CU	93,000	93,000	1.627101	70%	105,924	0.00086001	80
Commercial New Construction Taxable Excess Land	XU	4,900	4,900	1.627101	70%	5,581	0.00086001	4
Commercial Vacant Land	CX	84,800	84,800	1.091161	100%	92,530	0.00082391	70
Commercial - On Farm Business	C7	16,600	16,600	0.406775	100%	6,752	0.00030715	5
Industrial Occupied	IT	8,500	8,500	2.047572	100%	17,404	0.00154607	13
Industrial Vacant Units Excess Land	IU	22,300	22,300	2.047572	65%	29,680	0.00100494	22
Industrial Taxable Full, Shared PIL	IH	14,900	14,900	2.047572	100%	30,509	0.00154607	23
Industrial - On Farm Business	I7	33,400	33,400	0.511893	100%	17,097	0.00038651	13
Pipelines	PT	451,000	458,000	1.342355	100%	614,799	0.00101358	464
Farmland	FT	2,401,900	2,594,900	0.226000	100%	586,447	0.00017065	443
		57,149,600	58,432,500				62,023,391	46,832
		RESIDENTIAL BASE					0.00075508	0

Special Area - Inwood

AREA TAX RATE CALCULATIONS - INWOOD		2022		AMOUNT TO BE RAISED			14,934	
		2021	2022	TAX RATIO	% OF FULL RATE	WEIGHTED ASSESSMENT	TAX	TAX
PROPERTY CLASS	CODE	ASSESSMENT	ASSESSMENT				RATE	LEVY
Residential & Farm	RT	8,486,100	8,539,600	1.000000	100%	8,539,600	0.00133832	11,429
Commercial (occupied)	CT	1,216,500	1,202,400	1.627101	100%	1,956,426	0.00217758	2,618
Commercial New Construction Taxable Full	XT	114,000	114,000	1.627101	100%	185,490	0.00217758	248
Commercial Vacant Land	CX	18,200	18,200	1.091161	100%	19,859	0.00146032	27
Farmland	FT	2,024,000	2,024,000	0.226000	100%	457,424	0.00030246	612
		11,858,800	11,898,200				11,158,799	14,934
		RESIDENTIAL BASE					0.00133832	0

## Revenue - Taxation Etc.

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>TAXATION - OWN PURPOSES</b>							
01-0011-0005	INTERIM TAX LEVY	-	-	-	-	-	
01-0011-0010	TAXATION RESIDENTIAL	1,265,543.00	1,265,545.08	1,257,829.00	1,257,832.79	1,335,081.00	
01-0011-0012	TAXATION MULTI RESIDENTIAL	30,295.00	30,295.41	31,043.00	31,042.60	33,166.00	
01-0011-0013	TAXATION NEW MULTI-RESIDENTIAL	-	-	-	-	-	
01-0011-0014	TAXATION FARM LANDS	977,027.00	977,091.64	1,012,584.00	1,012,636.90	1,030,963.00	
01-0011-0015	TAXATION MANAGED FORESTS	344.00	343.62	352.00	352.10	360.00	
01-0011-0020	TAXATION COMMERCIAL OCCUPIED	76,022.00	76,022.36	77,259.00	77,258.97	79,178.00	
01-0011-0021	TAXATION COMMERCIAL EXCESS	1,107.00	1,106.90	1,134.00	1,134.21	1,158.00	
01-0011-0022	TAXATION COMMERCIAL VACANT	970.00	969.54	997.00	996.73	1,018.00	
01-0011-0023	TAXATION COMMERCIAL NEW CONSTRU	19,863.00	19,903.30	20,687.00	20,685.36	25,134.00	
01-0011-0024	TAXATION COMMERCIAL - SHARED PIL	380.00	380.46	390.00	389.85	398.00	
01-0011-0030	TAXATION INDUSTRIAL OCCUPIED	2,012.00	2,012.38	2,062.00	2,062.00	2,185.00	
01-0011-0031	TAXATION INDUSTRIAL EXCESS	217.00	216.87	222.00	222.22	227.00	
01-0011-0032	TAXATION INDUSTRIAL VACANT	-	-	-	-	-	
01-0011-0033	TAXATION INDUSTRIAL NEW CONSTRUCT	14,305.00	14,305.07	14,658.00	14,657.87	17,746.00	
01-0011-0034	TAXATION INDUSTRIAL - SHARED PIL	223.00	222.93	228.00	228.43	233.00	
01-0011-0035	TAXATION COMMERCIAL - ON FARM BUS	-	49.34	51.00	50.56	52.00	
01-0011-0036	TAXATION INDUSTRIAL - ON FARM BUSIN	-	124.93	128.00	128.01	131.00	
01-0011-0040	TAXATION PIPELINES	562,887.00	562,886.65	576,769.00	576,769.47	596,820.00	
01-0011-0050	SUPPLEMENTAL TAXES	-	-	-	-	-	
<b>TAXATION - OWN PURPOSES</b>		<b>2,951,195.00</b>	<b>2,951,476.48</b>	<b>2,996,393.00</b>	<b>2,996,448.07</b>	<b>3,123,850.00</b>	
<b>TAXATION - SP AREA - ALVINSTON</b>							
01-0012-0003	BUDGET PURPOSE ONLY	-	-	-	-	-	
01-0012-0010	TAXATION RESIDENTIAL	33,884.91	33,884.98	33,589.72	33,589.55	36,058.81	
01-0012-0012	TAXATION MULTI RESIDENTIAL	2,986.16	2,986.16	2,975.34	2,975.34	3,275.52	
01-0012-0013	TAXATION NEW MULTI-RESIDENTIAL	-	-	-	-	-	
01-0012-0014	TAXATION FARM LANDS	389.99	390.00	389.56	389.55	442.82	
01-0012-0015	TAXATION MANAGED FORESTS	-	-	-	-	-	
01-0012-0020	TAXATION COMMERCIAL OCCUPIED	4,838.97	4,838.97	4,558.00	4,558.01	4,841.52	
01-0012-0021	TAXATION COMMERCIAL EXCESS	80.31	76.29	80.02	76.02	84.19	
01-0012-0022	TAXATION COMMERCIAL VACANT	81.26	81.27	66.40	66.40	69.87	
01-0012-0023	TAXATION COMMERCIAL NEW CONSTRU	1,448.73	1,452.75	1,443.47	1,447.48	1,518.77	
01-0012-0024	TAXATION COMMERCIAL - SHARED PIL	-	-	-	-	-	
01-0012-0030	TAXATION INDUSTRIAL OCCUPIED	12.54	12.54	12.49	12.49	13.14	
01-0012-0031	TAXATION INDUSTRIAL EXCESS	21.38	21.38	21.30	21.30	22.41	
01-0012-0032	TAXATION INDUSTRIAL VACANT	-	-	-	-	-	
01-0012-0033	TAXATION INDUSTRIAL - SHARED PIL	21.97	21.97	21.89	21.89	23.04	

## Revenue - Taxation Etc.

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
01-0012-0035	TAXATION COMMERCIAL - ON FARM BUS	4.86	4.86	4.85	4.85	5.10	
01-0012-0036	TAXATION INDUSTRIAL - ON FARM BUSIN	12.31	12.31	12.27	12.27	12.91	
01-0012-0040	TAXATION PIPELINES	436.04	436.04	434.46	434.46	464.22	
01-0012-0050	SUPPLEMENTAL TAXES	-	163.31	-	698.80	-	
01-0012-7454	WRITE OFFS	-	(128.46)	-	(2.25)	-	
01-0012-7550	VACANCY REBATE	-	(8.02)	-	-	-	
<b>TAXATION - SP AREA - ALVINSTON</b>		<u>44,219.43</u>	<u>44,246.35</u>	<u>43,609.78</u>	<u>44,306.16</u>	<u>46,832.32</u>	
<b>TAXATION - SP AREA - INWOOD</b>							
01-0013-0003	BUDGET PURPOSE ONLY	-	-	-	-	-	
01-0013-0010	TAXATION RESIDENTIAL	11,001.29	11,001.31	11,019.95	11,019.99	11,428.68	
01-0013-0012	TAXATION MULTI RESIDENTIAL	-	-	-	-	-	
01-0013-0014	TAXATION FARM LANDS	601.23	601.22	594.00	594.00	612.18	
01-0013-0015	TAXATION MANAGED FORESTS	-	-	-	-	-	
01-0013-0020	TAXATION COMMERCIAL OCCUPIED	2,601.61	2,601.61	2,570.39	2,570.38	2,618.32	
01-0013-0021	TAXATION COMMERCIAL EXCESS	-	-	-	-	-	
01-0013-0022	TAXATION COMMERCIAL VACANT	26.10	26.10	25.79	25.79	26.58	
01-0013-0023	TAXATION COMMERCIAL NEW CONSTRU	243.80	243.80	240.88	240.88	248.24	
01-0013-0030	TAXATION INDUSTRIAL OCCUPIED	-	-	-	-	-	
01-0013-0040	TAXATION PIPELINES	-	-	-	-	-	
01-0013-0050	SUPPLEMENTAL TAXES	-	19.91	-	-	-	
01-0013-7454	WRITE OFFS	-	(6.35)	-	-	-	
01-0013-7550	VACANCY REBATES	-	(43.90)	-	-	-	
01-0013-7820	TRANSFER TO RESERVE - DRAINAGE	-	-	-	-	-	
<b>TAXATION - SP AREA - INWOOD</b>		<u>14,474.03</u>	<u>14,443.70</u>	<u>14,451.01</u>	<u>14,451.04</u>	<u>14,934.01</u>	
<b>ADJUSTMENTS TO TAXES</b>							
01-0014-0010	ADJUSTMENT TO TAXES	-	-	-	-	-	
<b>ADJUSTMENTS TO TAXES</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<b>SUPPLEMENTARY TAXES</b>							
01-0015-0005	TAX ADJ CLEARING MINUTES OF SETTLE	-	-	-	-	-	
01-0015-0010	SUPPLEMENTAL TAXES -	5,000.00	3,995.14	5,000.00	43,500.73	20,000.00	Est - based on increases due to construction, etc.
01-0015-0040	TAXATION PIPELINES	-	-	-	-	-	
<b>SUPPLEMENTARY TAXES</b>		<u>5,000.00</u>	<u>3,995.14</u>	<u>5,000.00</u>	<u>43,500.73</u>	<u>20,000.00</u>	

## Revenue - Taxation Etc.

Account	Description	2020 Budget	2020 Actual	2021 Budget	2021 Projected	2022 Budget	COMMENTS
<b>AMOUNTS ADDED TO TAX BILLS</b>		-	-	-	-	-	
<b>OTHER TAXATION AMOUNTS</b>							
01-0017-0085	UTILITY TRANSMISSION CORRIDORS	14,500.00	15,399.49	15,000.00	15,411.86	15,000.00	Estimate
<b>OTHER TAXATION AMOUNTS</b>		14,500.00	15,399.49	15,000.00	15,411.86	15,000.00	
<b>TAX ADJUSTMENTS (WRITE OFFS)</b>							
01-0018-0100	TAX W/O - MUNICIPAL ACT	(50,000.00)	(54,808.71)	(25,000.00)	(61,674.18)	(90,000.00)	Farm TIAs, RFRs, etc.
01-0018-0101	VACANCY REBATES	(500.00)	(285.15)	-	-	-	No more vacancy rebates
01-0018-0200	TAX ADJUSTMENTS CLEARING	-	-	-	-	-	-
<b>TAX ADJUSTMENTS (WRITE OFFS)</b>		(50,500.00)	(55,093.86)	(25,000.00)	(61,674.18)	(90,000.00)	
<b>ONTARIO UNCONDITIONAL GRANTS</b>							
01-0040-0620	ONTARIO MUNICIPAL PARTNERSHIP FUNI	678,100.00	678,100.00	594,100.00	594,100.00	521,700.00	2022 Allocation - down \$72,400 / 12.2%
01-0040-0621	OMPF - PRIOR YEARS ADJUSTMENT	-	63,500.00	17,000.00	61,249.00	-	COVID-19 funding
01-0040-0622	OTHER ONT GRANTS	17,299.00	7,089.26	-	5,000.00	-	Cannabis - Last year
<b>ONTARIO UNCONDITIONAL GRANTS</b>		695,399.00	748,689.26	611,100.00	660,349.00	521,700.00	
<b>LICENCES, PERMITS, RENTS</b>							
01-0050-1410	TRAILER REVENUE & PERMITS	-	-	-	-	-	-
01-0050-1420	LICENCES AND PERMITS	2,500.00	1,900.00	500.00	1,850.00	750.00	Changed Policy - little revenue
01-0050-1421	LICENCES - HUNTING	-	75.00	-	45.00	-	-
01-0050-1422	LOTTERY LICENCE	300.00	218.80	200.00	253.80	200.00	Estimate
01-0050-1423	LICENCE - Sidewalk rest	100.00	100.00	100.00	100.00	150.00	Armours for sidewalk patio
01-0050-1431	CANADA POST - MUNICIPAL BLDING	8,670.00	8,670.00	8,670.00	8,670.00	8,670.00	Canada Post Rental
01-0050-1432	GARAGE	-	-	-	-	-	-
01-0050-1435	OTHER	4,513.00	4,619.94	4,513.00	4,592.76	4,513.00	Brooke Telecom - cell tower rental
<b>LICENCES, PERMITS, RENTS</b>		16,083.00	15,583.74	13,983.00	15,511.56	14,283.00	
<b>FINES AND PENALTIES</b>							
01-0060-1605	PROVINCIAL OFFENCES ACT	-	-	-	-	-	-
01-0060-1610	OTHER FINES	-	-	-	-	-	-
01-0060-1611	PARKING TICKETS	-	-	-	-	-	-
01-0060-1612	CTY - PROV OFFENCES	-	-	-	-	-	-

## Revenue - Taxation Etc.

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
01-0060-1620	PENALTIES & INTEREST ON TAXES	45,000.00	48,716.90	55,000.00	49,443.21	45,000.00	Less arrears
<b>FINES AND PENALTIES</b>		<u>45,000.00</u>	<u>48,716.90</u>	<u>55,000.00</u>	<u>49,443.21</u>	<u>45,000.00</u>	
<b>OTHER REVENUE</b>							
01-0070-1810	INVESTMENT INCOME - OWN FUNDS	-	-	-	-	-	-
01-0070-1815	INTEREST CHARGES A/R	5,500.00	9,476.97	7,500.00	4,444.88	4,000.00	Less arrears
01-0070-1820	INVESTMENT INCOME OTHER	40,000.00	59,613.18	27,000.00	34,957.34	30,000.00	Interest Rates low/used funds for Shiloh
01-0070-1830	DONATIONS	-	-	-	-	-	-
01-0070-1865	OTHER (Gov't bus enterprise)	-	-	-	-	-	-
01-0070-1866	INSURANCE CLAIMS	-	-	-	-	-	-
01-0070-1900	BWP - EQUITY INCREASE(DECREASE)	-	31,664.70	-	-	-	-
01-0070-1901	BWP - EQUITY - DIVIDEND	-	(14,077.00)	-	-	-	-
01-0070-7116	REBATE - STAT BENEFITS	-	-	-	-	-	-
<b>OTHER REVENUE</b>		<u>45,500.00</u>	<u>86,677.85</u>	<u>34,500.00</u>	<u>39,402.22</u>	<u>34,000.00</u>	
<b>TRANSFERS FROM OWN FUNDS</b>							
01-0080-3010	CONTRIBUTIONS - CAPITAL FUNDS	-	-	-	-	-	-
01-0080-3020	CONTRIBUTION RESERVES	-	-	-	(5,000.00)	9,000.00	Election Reserves
01-0080-3021	CONTRIBUTIONS RESERVE FUNDS	-	-	-	-	-	-
01-0080-3100	GAIN / LOSS OF FIXED ASSET DISPOSAL	-	6,511.50	-	30,862.02	-	Sale of other assets (gain on sale)
01-0080-3500	PRIOR YEARS SURPLUS (DEFICIT)	412,000.00	(59,000.00)	424,000.00	74,000.00	397,000.00	Budget surplus to next year
01-0080-3550	ALLOCATION OF DEBT PRINC AMTS RAISE	-	-	-	-	-	-
<b>TRANSFERS FROM OWN FUNDS</b>		<u>412,000.00</u>	<u>(52,488.50)</u>	<u>424,000.00</u>	<u>99,862.02</u>	<u>406,000.00</u>	
<b>GENERAL GOVERNMENT</b>							
01-0200-5501	TAX CERTIFICATES	2,400.00	3,210.00	2,800.00	3,470.00	3,000.00	Based on 75 certificates
01-0200-5509	OTHER	500.00	264.50	500.00	1,051.29	500.00	Faxing, copying, etc.
<b>GENERAL GOVERNMENT</b>		<u>2,900.00</u>	<u>3,474.50</u>	<u>3,300.00</u>	<u>4,521.29</u>	<u>3,500.00</u>	



**0240 - GOVERNANCE (COUNCIL)**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projects</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>GOVERNANCE EXPENDITURES</b>							
01-0240-7101	REMUNERATION	35,000.00	29,875.00	31,000.00	26,870.00	30,000.00	Estimate based on yearly average
01-0240-7106	BENEFITS - STATUTORY	-	506.60	-	-	-	-
01-0240-7107	BENEFITS - MUNICIPAL	-	-	-	-	-	-
01-0240-7115	GST RECOVERIES ON ALLOWANCES	-	-	-	-	-	No tax-free allowance anymore
01-0240-7116	BENEFITS - STATUTORY	1,000.00	484.31	500.00	858.69	500.00	100% of income is taxable
01-0240-7303	PHONE/INTERNET SERVICE	360.00	324.18	360.00	324.20	360.00	-
01-0240-7306	TRAVEL	3,000.00	1,226.41	1,750.00	19.82	1,750.00	reduced due to Covid
01-0240-7320	ASSOCIATION MEMBERSHIP/FEES	300.00	-	300.00	-	300.00	Lambton County Assoc/Banquet
01-0240-7325	CONFERENCES/SEMINARS	7,500.00	4,283.25	3,000.00	1,322.88	3,000.00	Down , due to Covid
01-0240-7398	COUNCIL MEETING EXPENSES	1,500.00	1,324.60	500.00	283.61	500.00	Zoom costs, etc.
01-0240-7399	OTHER MATERIAL (PROMOTIONAL)	2,500.00	695.01	1,500.00	1,338.48	4,500.00	Sponsors, flowers, retirements, marketing (blog writer)
01-0240-7420	CONTRACTED SERVICES - LEGAL	2,500.00	1,130.56	2,000.00	1,345.77	2,000.00	Integrity Commissioner, estimate
01-0240-7610	TRANSFERS (donations)	1,500.00	475.00	1,500.00	200.00	1,500.00	-
<b>TOTAL GOVERNANCE EXPENDITURES</b>		<u>55,160.00</u>	<u>40,324.92</u>	<u>42,410.00</u>	<u>32,563.45</u>	<u>44,410.00</u>	

**0241 - COUNCIL SUPPORT**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>COUNCIL SUPPORT EXPENDITURES</b>							
01-0241-7110	SALARY/WAGES	125,000.00	123,246.87	130,000.00	126,437.84	133,000.00	Per Payroll Budget
01-0241-7115	RECOVERIES FROM OTHER DEPTs	(6,000.00)	(4,400.00)	(6,000.00)	(6,100.00)	(10,000.00)	Transfer to other depts
01-0241-7116	BENEFITS - STATUTORY	12,750.00	12,438.75	13,250.00	13,484.82	14,000.00	Per Payroll Budget
01-0241-7117	BENEFITS - MUNICIPAL	25,000.00	24,001.64	25,750.00	25,407.14	27,500.00	Per Payroll Budget
01-0241-7150	EDUCATION & TRAINING	1,250.00	480.05	1,000.00	407.04	1,000.00	-
01-0241-7301	OFFICE SUPPLIES	1,250.00	892.47	1,000.00	480.00	1,000.00	-
01-0241-7302	OFFICE EQUIPMENT	-	-	-	-	-	-
01-0241-7303	PHONE/INTERNET SERVICE	750.00	699.26	750.00	712.67	750.00	-
01-0241-7304	COPYING & PRINTING	-	-	-	-	-	-
01-0241-7305	POSTAGE/COURIER	1,750.00	1,529.08	1,750.00	1,156.27	1,750.00	-
01-0241-7307	ADVERTISING	250.00	-	275.00	50.88	275.00	-
01-0241-7315	INSURANCE	-	-	-	-	-	-
01-0241-7320	ASSOCIATION FEES & MEMBERSHIPS	825.00	814.08	825.00	818.15	850.00	AMCTO & OMAA
01-0241-7325	CONFERENCES/SEMINARS	2,125.00	444.82	1,500.00	25.00	2,000.00	AMCTO & OMAA & OGRA
01-0241-7350	TRAVEL	1,500.00	317.80	750.00	50.52	750.00	reduced
01-0241-7360	ELECTION	-	-	-	-	12,000.00	Election
01-0241-7399	OTHER MATERIAL	500.00	100.00	250.00	24.00	250.00	-
01-0241-7420	CONTRACTED SERVICES - LEGAL	-	-	-	-	-	-
01-0241-7430	CONTRACTED SERVICE - CONSULTING	3,300.00	3,228.23	3,300.00	3,325.09	3,400.00	Agenda Management software
01-0241-7440	CONTRACTED SERVICE - TRAINING	-	-	-	-	-	-
01-0241-7820	TRANSFER RESERVE - ELECTION	3,000.00	3,000.00	3,000.00	3,000.00	-	Election Reserves
<b>TOTAL COUNCIL SUPPORT EXPENDITURES</b>		<u>173,250.00</u>	<u>166,793.05</u>	<u>177,400.00</u>	<u>169,279.42</u>	<u>188,525.00</u>	

## 0250- CORPORATE MANAGEMENT

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>CORPORATE MANAGEMENT REVENUE</b>							
01-0250-5508	REGISTRATION ADMIN FEES	-	250.00	-	200.00	-	Tax sale fees
01-0250-5509	GRANTS & REBATES - LAS, ETC	750.00	526.89	500.00	558.48	500.00	LAS gas rebate, etc.
01-0250-5555	UPPER HALL/VESTIBULE RENTALS	10,400.00	8,500.00	9,200.00	7,200.00	7,200.00	BMO & North Lambton Child Care?
<b>TOTAL CORPORATE MANAGEMENT REVENUE</b>		<b>11,150.00</b>	<b>9,276.89</b>	<b>9,700.00</b>	<b>7,958.48</b>	<b>7,700.00</b>	
<b>CORPORATE MANAGEMENT EXPENDITURES</b>							
01-0250-7110	SALARY/WAGES	165,000.00	161,206.55	170,000.00	160,809.80	173,750.00	Per Payroll Budget
01-0250-7111	INTERNAL RECOVERIES/CHARGEBACK	(17,000.00)	(17,905.00)	(17,000.00)	(16,450.00)	(17,000.00)	Charge to Water, sewer & fire
01-0250-7116	BENEFITS - STATUTORY	18,500.00	17,711.87	19,250.00	16,538.87	20,000.00	Per Payroll Budget
01-0250-7117	BENEFITS - MUNICIPAL	26,500.00	25,918.32	28,500.00	27,168.04	32,750.00	Per Payroll Budget
01-0250-7119	LIFE INSURANCE CLEARING	-	-	-	-	-	-
01-0250-7150	EDUCATION & TRAINING	2,000.00	180.54	1,250.00	915.84	1,750.00	-
01-0250-7301	OFFICE SUPPLIES	4,500.00	3,997.91	4,500.00	2,570.76	4,500.00	-
01-0250-7302	OFFICE EQUIPMENT	2,500.00	-	2,500.00	2,307.81	2,500.00	Possible printers, chairs, etc.
01-0250-7303	PHONE/INTERNET SERVICE	3,500.00	3,331.96	3,500.00	3,524.06	3,750.00	cell phone costs increasing
01-0250-7304	COPYING & PRINTING	2,500.00	1,229.29	2,000.00	949.17	2,000.00	-
01-0250-7305	POSTAGE/COURIER	4,500.00	4,587.20	4,500.00	3,468.68	4,500.00	-
01-0250-7306	UTILITIES	6,250.00	4,934.20	6,000.00	5,130.38	6,000.00	Costs up + carbon tax
01-0250-7307	ADVERTISING	500.00	-	500.00	513.79	500.00	-
01-0250-7308	PUBLICATIONS	-	-	-	-	-	-
01-0250-7309	HEATING	2,500.00	1,910.55	2,500.00	1,841.22	2,500.00	Rates up, carbon tax up
01-0250-7310	COMPUTER TECHNOLOGY & SUPPO	20,000.00	22,853.93	22,500.00	18,697.91	22,500.00	Software Licencing costs are up
01-0250-7315	INSURANCE	34,773.00	33,701.40	38,598.00	37,814.04	43,500.00	15% estimated increase
01-0250-7320	ASSOCIATION FEES & MEMBERSHIP	3,000.00	2,997.66	3,000.00	2,776.44	3,000.00	AMO, MFOA, CPA
01-0250-7325	CONFERENCES/SEMINARS	1,850.00	407.04	1,250.00	1,065.43	1,500.00	online?
01-0250-7340	BUILDING REPAIRS & MAINTENANC	12,000.00	16,473.49	12,000.00	5,766.85	12,000.00	Aging building, includes inspection
01-0250-7341	SECURITY SYSTEM	1,250.00	732.06	1,000.00	1,239.23	1,000.00	-
01-0250-7350	TRAVEL	1,500.00	-	750.00	-	750.00	Cut due to Covid
01-0250-7399	OTHER MATERIAL	3,500.00	300.42	1,000.00	172.94	1,000.00	-
01-0250-7405	CONTRACTED SERVICE - OFFICE CLE.	3,500.00	3,331.95	3,500.00	3,250.00	3,500.00	-
01-0250-7410	CONTRACTED SERVICE - AUDIT	19,100.00	19,280.00	19,100.00	19,075.60	19,600.00	As per quote from auditors
01-0250-7411	CONTRACTED SERVICE - ASSET MAN	-	-	-	-	-	-
01-0250-7420	CONTRACTED SERVICES - LEGAL	1,000.00	-	-	-	-	-
01-0250-7450	CONTRACTED SERVICE WEB SITE DE	-	-	-	-	-	Estimate to revamp Website
01-0250-7460	CONTRACTED SERVICE - PAYROLL CI	400.00	339.35	400.00	365.53	400.00	Easy stub Payroll costs

## 0250- CORPORATE MANAGEMENT

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
01-0250-7510	FINANCIAL- BANK CHARGES	1,500.00	1,353.07	1,500.00	1,409.64	2,750.00	Monneris + Bank to reinstate monthly charges
01-0250-7520	FINANCIAL BANK INTEREST	-	-	-	-	-	-
01-0250-7810	TRANSFER - CAPITAL FD	-	-	-	-	-	-
01-0250-7820	TRANSFER - RESERVES	-	-	45,000.00	45,000.00	-	-
<b>CORPORATE MANAGEMENT EXPENDITURES</b>		<u>325,123.00</u>	<u>308,873.76</u>	<u>377,598.00</u>	<u>345,922.03</u>	<u>349,000.00</u>	
<b>NET OPERATING EXPENDITURES</b>		<u>(313,973.00)</u>	<u>(299,596.87)</u>	<u>(367,898.00)</u>	<u>(337,963.55)</u>	<u>(341,300.00)</u>	
<b>CAPITAL</b>							
20-0250-1830	DONATIONS	-	-	-	-	-	-
20-0250-4500	CONTRIBUTION REVENUE FUND	-	-	-	-	-	-
20-0250-4600	CONTRIBUTION RESERVES	-	-	-	-	-	-
20-0250-5000	PROV - EFFICIENCY	5,000.00	5,000.00	-	-	-	-
20-0250-5001	PROV - MUNICIPAL MODERNIZATIO	-	-	-	-	29,384.00	75% of phone sys, safety training sys
20-0250-5100	FEDERAL - Accessibility	9,392.00	9,392.00	-	-	-	-
20-0250-5101	FED - BFC	-	-	-	-	-	-
20-0250-5400	BLUEWATER POWER - LIGHTING	-	-	-	-	-	-
20-0250-5500	OTHER REVENUE	-	-	-	-	-	-
		<u>14,392.00</u>	<u>14,392.00</u>	<u>-</u>	<u>-</u>	<u>29,384.00</u>	
<b>EXPENDITURES</b>							
20-0250-7401	BUILDING RENOVATIONS	23,000.00	23,576.45	-	-	-	-
20-0250-8050	ADMINISTRATION EQUIPMENT	15,000.00	5,083.40	10,000.00	-	60,000.00	New Server, telephone sys, safety training sys.
20-0250-8051	BUILDING EQUIPMENT	-	-	-	-	-	Server - \$20.8k; Tel Sys - \$23.4k, Safety Sys - \$15.8k
20-0250-8052	BUILDING LIGHTING	-	-	-	-	-	-
20-0250-9500	TO TANGIBLE CAPITAL ASSETS	-	(28,659.00)	-	-	-	-
		<u>38,000.00</u>	<u>0.85</u>	<u>10,000.00</u>	<u>-</u>	<u>60,000.00</u>	
<b>NET CAPITAL EXPENDITURES</b>		<u>(23,608.00)</u>	<u>14,391.15</u>	<u>(10,000.00)</u>	<u>-</u>	<u>(30,616.00)</u>	

**0410 - FIRE SERVICES**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>FIRE SERVICES REVENUE</b>							
01-0410-1830	DONATIONS - BROOKE FIRE RESCU	-	4,100.00	-	315.00	-	-
<b>FIRE SERVICES EXPENDITURES</b>							
01-0410-7110	SALARY/WAGES			42,500.00	38,922.35	47,000.00	Per payroll budget
01-0410-7116	BENEFITS - STATUTORY/MUNICIPAL			5,500.00	4,375.64	6,250.00	Per payroll budget
01-0410-7150	TRAINING - CONSULTING			1,000.00	-	1,000.00	-
01-0410-7301	MATERIAL & SUPPLIES			500.00	215.80	500.00	-
01-0410-7340	EQUIPMENT & GEAR			500.00	300.00	500.00	-
01-0410-7350	TRAVEL			750.00	239.72	500.00	Lower, due to Covid
01-0410-7372	EQUIPMENT REPAIRS & MAINTENANCE			-	-	-	-
01-0410-7399	OTHER SUPPLIES MATERIALS	-	-	-	-	-	-
01-0410-7431	INSPECTION SERVICES	-	-	-	-	-	-
<b>TOTAL FIRE SERVICES EXPENDITURES</b>		-	-	50,750.00	44,053.51	55,750.00	
<b>NET FIRE SERVICES EXPENDITURES</b>		-	4,100.00	(50,750.00)	(43,738.51)	(55,750.00)	

## 0411 - FIRE STATION - ALVINSTON

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>OPERATING</b>							
<b>ALVINSTON FIRE DEPARTMENT REVENUE</b>							
01-0411-5241	TOWNSHIP OF DAWN-EUPHEMIA	31,633.00	44,029.15	30,032.00	23,357.00	33,363.00	Estimates
01-0411-5242	SOUTHWEST MIDDLESEX	13,383.00	20,157.59	18,019.00	10,606.00	15,165.00	Estimates
01-0411-5509	OTHER MISC REVENUE	-	-	-	5,224.77	-	-
<b>TOTAL REVENUE - OPERATING</b>		<b>45,016.00</b>	<b>64,186.74</b>	<b>48,051.00</b>	<b>39,187.77</b>	<b>48,528.00</b>	
<b>EXPENDITURES</b>							
01-0411-7110	WAGES	60,000.00	72,612.50	80,000.00	56,562.50	80,000.00	-
01-0411-7111	WAGES - TRAINING	40,000.00	13,525.00	42,000.00	16,850.00	45,000.00	-
01-0411-7115	GST RECOVERIES ON ALLOWANCES	(2,500.00)	(2,822.00)	(2,500.00)	(2,990.63)	(2,500.00)	-
01-0411-7116	BENEFITS - STATATORY	9,000.00	8,136.76	12,000.00	10,214.05	12,000.00	Mainly WSIB based on # of firemen
01-0411-7117	BENEFITS - MUNICIPAL	3,250.00	14,529.92	5,000.00	5,544.56	5,000.00	VFIS Coverage
01-0411-7120	UNIFORMS	1,000.00	2,110.08	2,500.00	2,393.01	2,500.00	-
01-0411-7125	PERSONNAL PROTECTIVE EQUIPMENT	6,000.00	6,780.85	8,000.00	1,655.55	8,000.00	Boots, traffic vests, helmets, gloves
01-0411-7150	TRAINING EXPENSES	5,000.00	2,665.72	15,000.00	12,816.41	12,000.00	Courses, Textbooks, etc.
01-0411-7175	EMPLOYEE RECOGNITION	1,300.00	1,950.00	2,000.00	2,111.98	2,500.00	Appreciation Dinner, certificates
01-0411-7230	LT DEBT CHARGES - INTEREST	293.00	125.82	-	-	-	-
01-0411-7303	PHONE/INTERNET SERVICE	1,750.00	1,646.20	1,750.00	1,275.93	1,750.00	-
01-0411-7305	POSTAGE & COURIER	300.00	56.64	300.00	113.08	300.00	Bunker gear shipping, etc.
01-0411-7306	UTILITIES	3,750.00	3,008.78	3,750.00	3,164.08	3,750.00	-
01-0411-7309	HEATING	1,500.00	1,749.38	1,550.00	2,785.45	2,000.00	-
01-0411-7310	OFFICE & ADMINISTRATION	3,500.00	3,071.62	4,500.00	4,119.32	4,000.00	Supplies/time spent by corp mgmt.
01-0411-7315	INSURANCE	8,981.00	8,980.54	9,969.00	13,684.82	13,000.00	Estimated 20% increase
01-0411-7320	ASSOCIATION FEES & MEMBERSHIPS	500.00	397.34	750.00	424.49	750.00	OAFC, CVFSA
01-0411-7330	FIRE PREVENTION	4,000.00	1,287.98	5,000.00	841.23	2,500.00	Includes smoke & CO detectors
01-0411-7340	BUILDING REPAIRS & MAINTENANCE	2,500.00	9,259.56	5,000.00	2,517.36	5,000.00	Includes inspection
01-0411-7341	JANITORIAL SUPPLIES & MATERIALS	250.00	-	250.00	-	250.00	-
01-0411-7343	GROUND'S MTCE	1,500.00	2,086.44	2,000.00	1,573.25	2,000.00	Parks & Rec charge for cutting grass
01-0411-7345	EQUIPMENT REPAIRS & MAINTENANCE	10,000.00	4,036.21	10,000.00	6,066.87	7,500.00	Equipment testing & maintenance
01-0411-7350	TRAVEL & ACCOMODATIONS	750.00	-	750.00	-	750.00	OAFC, CFFF
01-0411-7351	MEETINGS & MILEAGE	6,000.00	905.76	2,000.00	976.20	1,500.00	Officers Mtg, County Mutual Aid, etc.
01-0411-7360	MEDICAL SUPPLIES	1,000.00	1,087.29	1,000.00	2,054.86	2,000.00	-
01-0411-7365	PAGERS & RADIO'S	2,000.00	173.63	1,500.00	300.87	1,500.00	-
01-0411-7370	VEHICLE/EQUIPMENT - FUEL	3,000.00	1,698.56	3,000.00	2,125.07	4,000.00	-
01-0411-7371	PPE - CLEANING AND MAINTENANCE	4,000.00	2,981.45	3,500.00	451.12	1,500.00	-
01-0411-7372	VEHICLE REPAIRS & MAINTENANCE	9,000.00	6,450.50	10,000.00	2,793.42	10,000.00	-

## 0411 - FIRE STATION - ALVINSTON

Account	Description	2020 Budget	2020 Actual	2021 Budget	2021 Projected	2022 Budget	COMMENTS
01-0411-7373	VEHICLE INSPECTIONS & TESTS	5,000.00	3,938.95	6,000.00	6,658.81	7,000.00	Pump testing and vehicle annual inspector
01-0411-7399	OTHER MATERIAL SUPPLIES	-	-	3,500.00	-	-	-
01-0411-7441	CONSULTING - HEALTH & SAFETY	-	-	-	-	-	-
01-0411-7460	TELEPHONE DISPATCH COSTS	7,500.00	9,653.75	9,500.00	11,199.38	12,000.00	County system more expensive
01-0411-7730	LT DEBT CHARGES - PRINCIPAL	10,000.00	10,000.00	-	-	-	-
01-0411-7820	TRANSFER - RESERVES	100,000.00	100,000.00	60,000.00	60,000.00	-	-
<b>TOTAL EXPENDITURES - OPERATING</b>		<u>310,124.00</u>	<u>292,085.23</u>	<u>309,569.00</u>	<u>228,283.04</u>	<u>247,550.00</u>	
<b>NET EXPENDITURES OVER REVENUES - OPERATING</b>		<u>(265,108.00)</u>	<u>(227,898.49)</u>	<u>(261,518.00)</u>	<u>(189,095.27)</u>	<u>(199,022.00)</u>	
<b>CAPITAL REVENUE</b>							
20-0411-1830	DONATIONS /Grants	-	-	85,000.00	-	85,000.00	ICIP - Covid Resilience Grant
20-0411-4500	CONTRIBUTION REVENUE FUND	-	-	-	-	-	-
20-0411-4600	CONTRIBUTION RESERVES	-	-	-	-	135,000.00	For Fire Truck
20-0411-5241	MUNICIPAL - DAWN-EUPHEMIA	4,160.00	1,254.25	24,550.00	16,785.00	51,700.00	Estimate based on budget
20-0411-5242	MUNICIPAL - SOUTHWEST MIDDLESEX	1,760.00	249.90	14,730.00	7,629.00	23,500.00	Estimate based on budget
<b>TOTAL REVENUE - CAPITAL</b>		<u>5,920.00</u>	<u>1,504.15</u>	<u>124,280.00</u>	<u>24,414.00</u>	<u>295,200.00</u>	
<b>EXPENDITURES</b>							
20-0411-8000	EQUIPMENT - VEHICLES	-	-	16,000.00	7,118.11	-	-
20-0411-8001	BUNKER GEAR	10,000.00	9,997.71	10,000.00	5,008.84	10,000.00	4 sets @ \$2,500 each
20-0411-8002	AIR PACKS	7,000.00	-	65,000.00	58,225.06	15,000.00	upgrade last 8 sets to 4.5
20-0411-8030	NEW VEHICLE	-	-	60,000.00	66,640.48	300,000.00	new pumper - secure chassis
20-0411-8040	BUILDING	-	-	85,000.00	4,452.16	120,000.00	Upgrades (funded by ICIP grant )
20-0411-8041	HVAC	5,000.00	7,440.70	-	-	-	-
20-0411-8050	EQUIPMENT	10,000.00	2,665.59	9,500.00	11,145.24	25,000.00	Other Equipment
20-0411-8051	SOFTWARE	-	-	-	-	-	Garage door openers and rope rescue, etc.
20-0411-9500	TO TANGIBLE CAPITAL ASSETS	-	(19,008.00)	-	-	-	-
<b>TOTAL EXPENDITURES - CAPITAL</b>		<u>32,000.00</u>	<u>1,096.00</u>	<u>245,500.00</u>	<u>152,589.89</u>	<u>470,000.00</u>	
<b>NET EXPENDITURES OVER REVENUE - CAPITAL</b>		<u>(26,080.00)</u>	<u>408.15</u>	<u>(121,220.00)</u>	<u>(128,175.89)</u>	<u>(174,800.00)</u>	

## 0412 - FIRE STATION - INWOOD

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>OPERATING</b>							
<b>REVENUE</b>							
01-0412-5241	TOWNSHIP OF DAWN-EUPHEMIA	12,322.00	15,263.89	-	-	-	-
01-0412-5243	TOWNSHIP OF ENNISKILLEN	-	-	-	-	-	-
01-0412-5509	OTHER MISC REVENUE	-	-	-	-	-	-
<b>TOTAL REVENUE - OPERATING</b>		<u>12,322.00</u>	<u>15,263.89</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<b>EXPENDITURES</b>							
01-0412-7110	WAGES	12,000.00	10,300.00	-	-	-	-
01-0412-7111	WAGES - TRAINING	10,000.00	2,550.00	-	-	-	-
01-0412-7115	GST RECOVERIES ON ALLOWANCES	(1,000.00)	(719.33)	-	-	-	-
01-0412-7116	BENEFITS - STATATORY	3,000.00	1,855.56	-	-	-	-
01-0412-7117	BENEFITS - MUNICIPAL	1,750.00	1,108.76	-	-	-	-
01-0412-7120	UNIFORMS	3,000.00	2,707.00	-	-	-	-
01-0412-7125	PERSONNAL PROTECTIVE EQUIPMENT	4,000.00	3,474.18	-	-	-	-
01-0412-7150	TRAINING EXPENSES	5,000.00	2,913.81	-	-	-	-
01-0412-7175	EMPLOYEE RECOGNITION	750.00	250.00	-	-	-	-
01-0412-7230	LT DEBT CHARGES - INTEREST	644.00	276.81	-	-	-	-
01-0412-7303	PHONE/INTERNET SERVICE	700.00	644.05	-	-	-	-
01-0412-7305	POSTAGE & COURIER	300.00	-	-	-	-	-
01-0412-7310	OFFICE & ADMINISTRATION	2,500.00	3,003.31	-	-	-	-
01-0412-7315	INSURANCE	4,931.00	4,930.06	-	-	-	-
01-0412-7320	ASSOCIATION FEES & MEMBERSHIPS	500.00	117.50	-	-	-	-
01-0412-7330	FIRE PREVENTION	2,000.00	784.53	-	-	-	-
01-0412-7342	BUILDING RENTAL /storage costs	5,000.00	4,993.19	-	-	-	-
01-0412-7345	EQUIPMENT REPAIRS & MAINTENANCE	5,000.00	1,868.89	-	-	-	-
01-0412-7351	MEETINGS & MILEAGE	1,750.00	149.71	-	-	-	-
01-0412-7360	MEDICAL SUPPLIES	1,000.00	593.20	-	-	-	-
01-0412-7365	PAGERS & RADIO'S	2,000.00	93.50	-	-	-	-
01-0412-7370	VEHICLE/EQUIPMENT - FUEL	1,250.00	699.95	-	-	-	-
01-0412-7371	PPE - CLEANING AND MAINTENANCE	1,500.00	1,966.25	-	-	-	-
01-0412-7372	VEHICLE REPAIRS & MAINTENANCE	7,500.00	7,041.95	-	-	-	-



## 0412 - FIRE STATION - INWOOD

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
01-0412-7399	OTHER MATERIAL SUPPLIES	-	-	-	-	-	-
01-0412-7441	CONSULTING	-	-	-	-	-	-
01-0412-7460	TELEPHONE DISPATCH COSTS	6,500.00	7,364.77	-	-	-	-
01-0412-7730	LT DEBT - PRINCIPAL	22,000.00	22,000.00	-	-	-	-
01-0412-7810	TRANSFER - CAPITAL FD	-	-	-	-	-	-
01-0412-7820	TRANSFER - RESERVES	100,000.00	100,000.00	-	-	-	-
<b>TOTAL EXPENDITURES - OPERATING</b>		203,575.00	180,967.65	-	-	-	
<b>NET EXPENDITURES OVER REVENUE - OPERATING</b>		(191,253.00)	(165,703.76)	-	-	-	
<b>CAPITAL REVENUE</b>							
20-0412-1830	DONATIONS	-	-	-	-	-	-
20-0412-4500	CONTRIBUTION REVENUE FUND	-	-	155,000.00	154,166.25	-	-
20-0412-4600	CONTRIBUTION RESERVES	-	-	-	-	-	-
20-0412-5241	MUNICIPAL - DAWN-EUPHEMIA	1,860.00	840.25	-	-	-	-
20-0412-5243	MUNICIPAL - ENNISKILLEN	-	-	-	-	-	-
<b>TOTAL REVENUE - OPERATING</b>		1,860.00	840.25	155,000.00	154,166.25	-	
<b>EXPENDITURES</b>							
20-0412-8000	EQUIPMENT - VEHICLES	-	-	40,000.00	33,710.17	-	-
20-0412-8001	BUNKER GEAR	2,500.00	2,499.43	-	-	-	-
20-0412-8002	AIR PACKS	3,000.00	-	-	-	-	-
20-0412-8020	COMMUNICATIONS	-	-	-	-	-	-
20-0412-8030	NEW VEHICLE	-	-	-	-	-	-
20-0412-8050	EQUIPMENT	5,000.00	1,089.16	-	-	-	-
20-0412-8055	SOFTWARE	5,000.00	5,082.91	-	-	-	-
20-0412-9500	TO TANGIBLE CAPITAL ASSETS	-	(7,582.00)	-	-	-	-
<b>TOTAL EXPENDITURES - CAPITAL</b>		15,500.00	1,089.50	40,000.00	33,710.17	-	
<b>NET EXPENDITURES OVER REVENUE - CAPITAL</b>		(13,640.00)	(249.25)	115,000.00	120,456.08	-	

**0413 - FIRE DEPT - WATFORD**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-0413-7315	INSURANCE ON VEHICLE	1,437.00	1,437.00	1,595.00	1,743.00	2,090.00	Estimated 20% increase
01-0413-7372	VEHICLE REPAIRS & MAINTENANCE	1,200.00	518.98	1,200.00	887.44	1,250.00	Safety & Repairs
01-0413-7610	WATFORD FIRE GRANT	1,990.00	1,990.00	1,990.00	1,990.00	2,000.00	Billed from Warwick
01-0413-7810	TRANSFERS - CAPITAL FD	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>4,627.00</u>	<u>3,945.98</u>	<u>4,785.00</u>	<u>4,620.44</u>	<u>5,340.00</u>	

## 0420 - POLICE

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-0420-5201	CTY OF LAMBTON - POLICE GRANT	<u>11,910.00</u>	<u>13,542.00</u>	<u>11,910.00</u>	<u>11,910.00</u>	<u>11,910.00</u>	Same every year - Payment from County
<b>EXPENDITURES</b>							
01-0420-7303	PHONE/INTERNET SERVICE	-	-	-	-	-	-
01-0420-7325	CONFERENCE / SEMINARS	-	-	-	-	-	-
01-0420-7460	POLICING	<u>408,226.00</u>	<u>408,226.08</u>	<u>412,363.56</u>	<u>398,901.00</u>	<u>394,056.00</u>	Per OPP estimate + extra costs for rev shortfall?
<b>EXPENDITURES</b>		<u>408,226.00</u>	<u>408,226.08</u>	<u>412,363.56</u>	<u>398,901.00</u>	<u>394,056.00</u>	
<b>NET</b>		<u>(396,316.00)</u>	<u>(394,684.08)</u>	<u>(400,453.56)</u>	<u>(386,991.00)</u>	<u>(382,146.00)</u>	

## 0430 - CONSERVATION AUTH

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-0430-7620	ST. CLAIR CONSERVATION AUTHORITY	<u>23,191.00</u>	<u>18,662.00</u>	<u>21,080.00</u>	<u>21,080.00</u>	<u>24,223.00</u>	Per Conservation budget
		<u>23,191.00</u>	<u>18,662.00</u>	<u>21,080.00</u>	<u>21,080.00</u>	<u>24,223.00</u>	

## 0440 - PROT INSP &amp; CONTRL

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projects</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-0450-5507	SALE OF 911 SIGNS/BOOKS	-	163.90	-	393.36	-	-
01-0440-5005	ONTARIO - OMAF WILDLIFE	-	-	-	1,148.88	-	-
01-0440-5505	BUILDING PERMITS	16,500.00	48,257.61	30,000.00	20,765.52	25,000.00	Estimate for budget
01-0440-5507	PROPERTY STANDARDS RECOVERIES	15,000.00	27,081.07	25,000.00	5,153.04	10,000.00	-
01-0440-5508	FENCEVIEWING CHARGES	-	-	-	-	-	-
01-0440-5510	DOG LICENCES	11,000.00	10,179.33	10,000.00	9,881.57	10,000.00	No Enumeration - 400 tags @ \$25/tag
01-0440-5511	OTHER - (KENNEL, ETC)	500.00	800.00	500.00	700.00	500.00	-
01-0440-5506	REFUND OF PERMIT DEPOSITS	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		<u>43,000.00</u>	<u>86,481.91</u>	<u>65,500.00</u>	<u>38,042.37</u>	<u>45,500.00</u>	
<b>EXPENDITURES</b>							
01-0440-7420	LEGAL FEES PROPERTY STANDARDS	5,000.00	19,261.72	20,000.00	39,844.65	2,500.00	Legal for NFP - shared
01-0440-7470	BUILDING INSPECTION CHARGES	15,000.00	35,300.65	30,000.00	28,755.29	25,000.00	use the county, estimate
01-0440-7472	ANIMAL CONTROL	9,600.00	9,571.44	9,900.00	9,571.44	9,900.00	-
01-0440-7473	DOG TAG & LICENCING	-	-	-	-	1,000.00	Tag costs
01-0440-7474	FENCEVEIERS	-	-	-	-	-	-
01-0440-7475	BY-LAW ENFORCEMENT	3,000.00	2,398.96	1,500.00	1,324.71	1,500.00	use the county
01-0440-7476	PROPERTY STANDARDS CHARGES	15,000.00	25,842.56	25,000.00	4,447.81	10,000.00	use the county; estimate
01-0440-7630	LIVESTOCK CLAIMS & VALUATION	225.00	-	-	1,168.88	-	-
<b>TOTAL EXPENDITURES</b>		<u>47,825.00</u>	<u>92,375.33</u>	<u>86,400.00</u>	<u>85,112.78</u>	<u>49,900.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>(4,825.00)</u>	<u>(5,893.42)</u>	<u>(20,900.00)</u>	<u>(47,070.41)</u>	<u>(4,400.00)</u>	

**0450 - EMERGENCY MEASURES**

For Discussion Purposes Only

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-0450-7110	SALARY/WAGES	3,000.00	5,357.51	5,000.00	-	5,000.00	From Council Support/Fire
01-0450-7116	BENEFITS - STATUTORY	100.00	604.67	500.00	-	-	-
01-0450-7150	TRAINING - CONSULTING	500.00	-	500.00	-	-	-
01-0450-7301	MATERIAL & SUPPLIES	250.00	72.50	1,000.00	217.50	500.00	-
01-0450-7331	PUBLIC EDUCATION	-	-	-	-	-	-
01-0450-7340	OFFICE MAINTENANCE	-	-	-	682.02	-	-
01-0450-7350	TRAVEL	250.00	-	250.00	-	-	-
01-0450-7372	EQUIPMENT REPAIRS & MAINTENANCE	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>4,100.00</u>	<u>6,034.68</u>	<u>7,250.00</u>	<u>899.52</u>	<u>5,500.00</u>	

## 0500-0559 - MATERIAL &amp; SERVICES

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>OPERATING</b>							
<b>REVENUE</b>							
01-0500-5001	RESERVES AND RESERVE FUNI	-	-	-	-	-	-
01-0500-5105	FEDERAL GAS TAX	-	-	-	-	-	-
01-0500-5106	CANADA GRANTS - OTHER	-	-	-	-	-	-
01-0500-5240	OTHER MUNICIPALITIES	-	-	-	-	-	-
01-0500-5501	ROAD RECEIPTS	2,500.00	4,535.82	2,500.00	63,590.17	2,500.00	Misc. billings
01-0500-5508	WEED CUTTING	-	-	-	-	-	-
01-0500-5510	ROADS LABOUR RECOVERIES	2,500.00	551.25	2,500.00	-	2,500.00	-
01-0500-5511	FUEL RECOVERY FIRE DEPT'S	5,000.00	-	-	425.50	-	-
<b>TOTAL REVENUE</b>		<b>10,000.00</b>	<b>5,087.07</b>	<b>5,000.00</b>	<b>64,015.67</b>	<b>5,000.00</b>	
<b>EXPENDITURES</b>							
01-0501-7301	MATERIALS	10,000.00	9,837.38	10,000.00	6,072.70	10,000.00	Cold patch
01-0501-7401	CONTRACTED SERVICES	35,000.00	30,649.15	30,000.00	29,218.20	30,000.00	Lloyds Paving - Tar & Chip - Repairs
01-0501-7501	RENTS	-	50.88	-	-	-	-
01-0503-7301	MATERIALS	5,000.00	-	-	-	-	Shoulder Maintenance
01-0503-7401	CONTRACTED SERVICES	-	-	-	-	-	-
01-0508-7301	MATERIALS	-	-	-	-	-	-
01-0508-7401	CONTRACTED SERVICES	700.00	-	750.00	264.58	750.00	Sweeping - main street
01-0513-7110	SALARY/WAGES/BENEFITS	-	-	-	-	-	-
01-0513-7301	MATERIALS	-	-	-	-	-	-
01-0513-7401	CONTRACTED SERVICES	-	-	-	-	-	-
01-0513-7501	RENT	-	-	-	-	-	-
01-0516-7301	MATERIALS	55,000.00	50,970.99	70,000.00	38,943.33	25,000.00	Stock pile
01-0516-7401	CONTRACTED SERVICES	300,000.00	295,228.64	460,000.00	436,100.26	400,000.00	\$278k inland + \$122k demolite
01-0518-7301	MATERIALS	500.00	-	500.00	-	500.00	Calcium
01-0518-7401	CONTRACTED SERVICES	68,000.00	58,239.94	68,000.00	77,960.55	78,000.00	Dust control - higher costs
01-0528-7110	SALARY/WAGES/BENEFITS	-	-	-	-	-	-
01-0528-7301	MATERIALS	-	-	-	-	-	-
01-0528-7401	CONTRACTED SERVICES	-	-	-	-	-	-
01-0528-7501	RENT	-	-	-	-	-	-
01-0531-7301	MATERIALS	15,000.00	18,210.46	20,000.00	16,200.41	20,000.00	Culverts, etc.
01-0531-7401	CONTRACTED SERVICES	5,000.00	-	5,000.00	305.28	5,000.00	Culvert assistance - contractors
01-0531-7501	RENTS	-	-	-	-	-	-
01-0532-7301	MATERIALS	5,000.00	-	5,000.00	-	15,000.00	Bridge repairs
01-0532-7401	CONTRACTED SERVICES	-	-	-	-	12,000.00	Bridge inspection
01-0532-7501	RENTS	-	-	-	-	-	-
01-0535-7110	WAGES	-	-	-	-	-	-
01-0535-7118	BENEFITS	-	-	-	-	-	-

## 0500-0559 - MATERIAL &amp; SERVICES

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>	
01-0535-7301	MATERIALS	-	-	-	-	-		-
01-0535-7350	MACHINE RENTS	-	-	-	-	-		-
01-0535-7397	MISCELLANEOUS	-	-	-	-	-		-
01-0535-7401	CONTRACTORS	-	-	7,500.00	6,846.73	-	Crack sealing - River St. last year	-
01-0543-7110	SALARY/WAGES/BENEFITS	-	-	-	-	-		-
01-0543-7301	MATERIALS	-	-	-	-	-		-
01-0543-7401	CONTRACTED SERVICES	-	-	-	-	-		-
01-0543-7501	RENT	-	-	-	-	-		-
01-0546-7301	MATERIALS	-	-	-	-	-		-
01-0546-7401	CONTRACTED SERVICES	3,500.00	2,776.09	3,500.00	2,575.60	13,500.00	Line painting, includes Shiloh	-
01-0546-7501	RENTS	-	-	-	-	-		-
01-0547-7301	MATERIALS	-	-	-	-	-		-
01-0547-7401	CONTRACTED SERVICES	10,000.00	12,269.71	10,000.00	11,827.05	20,000.00	Brush/tree removal	-
01-0547-7501	RENTS	-	-	-	-	-		-
01-0548-7301	MATERIALS	500.00	-	500.00	115.65	500.00	Grass seed - Ditching	-
01-0548-7401	CONTRACTED SERVICES	-	284.93	-	-	-		-
01-0548-7501	RENTS	-	-	-	-	-		-
01-0549-7301	MATERIALS	-	1,150.91	-	-	-		-
01-0549-7401	CONTRACTED SERVICES	1,800.00	1,408.95	2,000.00	2,452.57	2,500.00	Garbage-Waste Mgmt.	-
01-0550-7110	WAGES	-	-	-	-	-		-
01-0550-7301	MATERIALS	5,000.00	8,410.91	10,000.00	2,820.85	10,000.00	Posts/signs	-
01-0550-7401	CONTRACTED SERVICES	5,000.00	4,678.50	-	-	5,000.00	Reflectivity testing	-
01-0551-7301	MATERIALS	-	-	-	-	-		-
01-0551-7306	UTILITIES	250.00	185.20	250.00	206.39	250.00	Intersection lighting	-
01-0552-7301	MATERIALS	-	48.78	-	-	-		-
01-0552-7401	CONTRACTORS	-	-	-	-	-		-
01-0553-7301	MATERIALS	-	-	-	1,580.71	-		-
01-0553-7401	CONTRACTED SERVICES	4,500.00	-	4,500.00	6,551.92	10,000.00	Catch basins	-
01-0554-7301	MATERIALS	2,000.00	537.04	2,000.00	4,855.13	5,000.00	Drainage & flushing (in town)	-
01-0554-7401	CONTRACTED SERVICES	110,000.00	148,551.51	75,000.00	71,234.20	75,000.00	Municipal Drains - estimate	-
01-0558-7110	SALARY/WAGE/BENEFITS	-	-	-	-	-		-
01-0558-7301	MATERIALS	-	-	-	-	-		-
01-0558-7401	CONTRACTED SERVICES	-	-	-	-	-		-
01-0558-7501	RENT	-	-	-	-	-		-
<b>TOTAL EXPENDITURES</b>		<u>641,750.00</u>	<u>643,489.97</u>	<u>784,500.00</u>	<u>716,132.11</u>	<u>738,000.00</u>		
<b>NET EXPENDITURES OVER REVENUE - OPERATING</b>		<u>(631,750.00)</u>	<u>(638,402.90)</u>	<u>(779,500.00)</u>	<u>(652,116.44)</u>	<u>(733,000.00)</u>		



## 0500-0559 - MATERIAL &amp; SERVICES

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>CAPITAL REVENUE</b>							
20-0500-4500	CONTRIBUTION REVENUE FUI	-	-	-	650,000.00	-	
20-0500-4600	CONTRIBUTION RESERVE/RES	125,000.00	-	-	350,000.00	30,000.00	
20-0500-5001	PROVINCE RD & BRIDGE GRAI	273,968.00	273,968.00	137,421.00	137,421.00	273,665.00	2022 OCIF \$137,421 x 2 - gov't says doubled (not quite)
20-0500-5005	GAS TAX REBATE - AMO	228,949.38	228,949.04	-	-	-	2021 & 2022 \$76,465.23 x 2 +73,508.20 Defer
20-0500-5240	EFFICIENCY FUNDING	100,000.00	100,000.00	-	-	28,331.00	Muni Modernize - Intake II
20-0503-4600	CONTRIBUTION RESERVES	-	-	-	-	-	
20-0509-5000	PROVINCIAL GRANTS	-	-	1,029,607.03	1,029,607.03	-	
20-0509-5100	CANADA GRANTS	-	-	1,853,478.00	1,853,478.00	-	
20-0513-5240	COUNTY SHARE	-	-	-	-	-	
20-0513-5250	OTHER MUN SHARE	-	-	-	-	-	
20-0541-4600	RESERVES AND FUNDS	-	-	-	-	-	
20-0541-5005	AMO CANADA GAS TAX	-	-	-	-	-	
<b>TOTAL REVENUE</b>		<b>727,917.38</b>	<b>602,917.04</b>	<b>3,020,506.03</b>	<b>4,020,506.03</b>	<b>331,996.00</b>	
<b>CAPITAL EXPENDITURES</b>							
20-0502-7901	INTERNAL MUNICIPAL DRAIN	-	-	-	-	-	
20-0503-7401	BUILDING IMPROVEMENTS	50,000.00	-	45,000.00	28,528.03	20,000.00	Paint MTO Driveshed
20-0503-7402	WATERLINE	-	-	-	-	-	-
20-0505-7307	ADVERTISING	-	-	-	-	-	-
20-0505-7398	LICENCES & PERMITS	-	-	-	-	-	-
20-0505-7401	CONTRACTOR	-	-	-	-	37,775.00	GIS map & Asset Mgmt -Citywide
20-0505-7431	ENGINEERING	-	-	-	-	15,000.00	Extra for Asset Management
20-0506-7307	ADVERTISING	-	-	-	-	-	-
20-0506-7398	LICENCES & PERMITS	-	-	-	-	-	-
20-0506-7401	CONTRACTOR	-	-	-	-	-	-
20-0506-7431	ENGINEERING	-	-	-	-	-	-
20-0507-7307	ADVERTISING	-	-	-	-	-	-
20-0507-7398	LICENCES & PERMITS	-	-	-	-	-	-
20-0507-7401	CONTRACTOR	-	-	-	-	-	-
20-0507-7431	ENGINEERING	-	-	-	-	-	-
20-0508-7307	ADVERTISING	-	-	-	-	-	-
20-0508-7398	LICENCES & PERMITS	-	-	-	-	-	-
20-0508-7401	CONTRACTOR	16,000.00	13,493.38	15,000.00	-	-	Guard Rails
20-0508-7431	ENGINEERING	-	-	-	-	-	-
20-0509-7307	ADVERTISING	-	-	-	-	-	-
20-0509-7401	CONTRACTOR	-	-	-	-	-	-
20-0510-7301	CONSTRUCTION MATERIAL	-	-	-	-	50,000.00	Tar/Chip Section Oil Springs Line
20-0510-7302	ENGINEERING	-	-	-	-	-	-

## 0500-0559 - MATERIAL &amp; SERVICES

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
20-0511-7301	CONSTRUCTION MATERIAL	-	-	-	172.10	300,000.00	LaSalle Line West - 1st 1.9 km
20-0512-7301	CONSTRUCTION MATERIAL	-	87,513.49	3,089,130.00	4,231,453.47	-	-
20-0512-7431	ENGINEERING	-	5,462.68	-	-	-	-
20-0513-7307	MAJOR CULVERTS ADVERTISING	-	-	-	-	-	-
20-0513-7398	MAJOR CULVERTS LICENSES	-	-	-	-	-	-
20-0513-7401	MAJOR CULVERT CONSTRUCTION	100,000.00	51,257.67	-	-	50,000.00	Pipes - LaSalle - Little Ireland West
20-0513-7431	MAJOR CULVERT - SUTTONVILLE	50,000.00	49,726.98	-	-	30,000.00	LaSalle Box Culvert
20-0513-7432	MAJOR CULVERTS - INWOOD ROAD	50,000.00	25,371.59	-	-	-	-
20-0513-7433	MAJOR CULVERTS	35,000.00	32,224.08	-	-	-	-
20-0514-7301	RECONSTRUCTION (PULVERIZED ASPHALT)	170,000.00	164,301.70	175,000.00	167,721.85	-	-
20-0515-7401	MAJOR REPAIRS	625,000.00	567,032.04	75,000.00	65,758.27	-	-
20-0540-7301	CONSTRUCTION MATERIAL	-	-	-	-	10,000.00	Tar/Chip Sydenham Street
20-0540-7431	ENGINEERING	15,000.00	-	-	-	15,000.00	Railroad & Walnut Streets Engineering
20-0541-7398	LICENSES	-	-	-	-	-	-
20-0541-7401	CONTRACTOR	-	-	-	-	-	-
20-0541-7431	ENGINEERING	-	-	-	-	-	-
20-0552-7301	CONSTRUCTION MATERIAL	15,000.00	15,698.24	15,000.00	15,116.16	30,000.00	Sidewalks
20-0570-7431	ENGINEERING & CONSTRUCTION	-	-	-	-	-	-
20-0599-9500	TO TANGIBLE CAPITAL ASSETS	-	#####	-	-	-	-
<b>TOTAL EXPENDITURES - CAPITAL</b>		<u>1,126,000.00</u>	<u>0.85</u>	<u>3,414,130.00</u>	<u>4,508,749.88</u>	<u>557,775.00</u>	
<b>NET CAPITAL EXPENDITURES</b>		<u>(398,082.62)</u>	<u>602,916.19</u>	<u>(393,623.97)</u>	<u>(488,243.85)</u>	<u>(225,779.00)</u>	

## 0560 - PUBLIC WORKS DEPT

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-0560-7110	SALARY/WAGES	367,500.00	350,663.76	369,000.00	366,076.16	380,500.00	Per payroll budget
01-0560-7111	PAYROLL RECOVERIES	(9,000.00)	(8,850.00)	(9,000.00)	(9,525.00)	(9,000.00)	Allocations to Water/sewer
01-0560-7116	BENEFITS - STATATORY	42,500.00	40,592.86	43,000.00	39,523.64	44,500.00	Per payroll budget
01-0560-7117	BENEFITS - MUNICIPAL	68,000.00	63,882.84	70,000.00	69,077.16	73,000.00	Per payroll budget
01-0560-7125	PROTECTIVE CLOTHING	3,500.00	4,056.29	4,000.00	3,191.21	4,000.00	-
01-0560-7150	EDUCATION & TRAINING	5,000.00	2,045.44	1,000.00	1,132.92	2,500.00	-
01-0560-7230	LONG-TERM DEBT - INTEREST	-	-	-	-	13,052.50	Borrowed for Shiloh 10 years
01-0560-7301	OFFICE SUPPLIES	750.00	386.10	750.00	569.19	750.00	-
01-0560-7302	OFFICE EQUIPMENT	1,250.00	-	1,250.00	-	1,250.00	-
01-0560-7303	PHONE/INTERNET SERVICE	3,500.00	3,022.85	3,500.00	2,654.94	3,250.00	-
01-0560-7304	SHOP SUPPLIES	10,000.00	12,863.86	10,000.00	13,756.97	14,000.00	-
01-0560-7305	POSTAGE/COURIER	-	-	-	-	-	-
01-0560-7306	UTILITIES	6,000.00	5,656.52	6,000.00	5,586.53	6,000.00	Likely to increase
01-0560-7307	ADVERTISING	250.00	117.96	250.00	122.12	250.00	-
01-0560-7309	HEATING	4,000.00	3,456.12	4,000.00	2,777.09	4,000.00	Higher Gas + carbon tax
01-0560-7310	COMPUTER TECHNOLOGY & SUPPORT	5,000.00	3,765.02	4,500.00	2,994.83	3,500.00	GPS tracking, etc.
01-0560-7315	INSURANCE	54,759.00	54,758.88	60,782.00	61,990.32	72,000.00	Estimated 15% increase
01-0560-7320	ASSOCIATION FEES & MEMBERSHIPS	2,000.00	1,293.41	2,000.00	1,393.78	1,500.00	-
01-0560-7325	CONFERENCES / SEMINIARS	2,500.00	1,464.53	-	712.32	2,500.00	OGRA ?
01-0560-7340	BUILDING REPAIRS & MAINTENANCE	7,500.00	6,957.39	7,500.00	3,724.04	15,000.00	Salt shed, plus bldg. inspections
01-0560-7341	SECURITY SYSTEM	1,000.00	752.51	1,000.00	621.55	1,000.00	-
01-0560-7350	TRAVEL	500.00	148.11	500.00	-	500.00	-
01-0560-7398	INVENTORY YEAR END ADJUSTMENT	-	-	-	445.58	-	-
01-0560-7399	OTHER MATERIAL	1,000.00	650.00	1,000.00	726.66	1,000.00	-
01-0560-7405	CONTRACTED SERVICE - OFFICE CLEANING	3,500.00	3,230.07	3,500.00	3,250.00	3,500.00	-
01-0560-7420	CONTRACTED SERVICES - LEGAL	-	-	-	-	-	-
01-0560-7610	TRANSFERS	-	-	-	-	-	-
01-0560-7730	LONG-TERM DEBT - PRINCIPAL	-	-	-	-	65,000.00	Loan for Shiloh
01-0560-7820	TRANSFER - RESERVES	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>581,009.00</u>	<u>550,914.52</u>	<u>584,532.00</u>	<u>570,802.01</u>	<u>703,552.50</u>	

## 0600-0639 - VEHICLES

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projects</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>OPERATING</b>							
<b>EXPENDITURES</b>							
01-0601-5550	RENTALS	-	-	-	-	-	-
01-0601-7110	LABOUR	-	-	-	-	-	-
01-0601-7370	FUEL	8,000.00	5,613.14	5,500.00	4,297.32	5,500.00	2006 Sterling PSD
01-0601-7372	REPAIRS/MTCE	12,000.00	6,626.25	9,000.00	5,549.65	10,000.00	-
01-0601-7397	OTHER	2,000.00	1,917.50	2,000.00	1,917.50	2,000.00	Licence
01-0601-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0602-5550	RENTALS	-	-	-	-	-	-
01-0602-7110	LABOUR	-	-	-	-	-	-
01-0602-7370	FUEL	-	-	-	-	-	-
01-0602-7372	REPAIRS/MTCE	-	-	-	-	-	-
01-0602-7397	OTHER	-	-	-	-	-	-
01-0602-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0603-5550	RENTALS	-	-	-	-	-	-
01-0603-7110	LABOUR	-	-	-	-	-	-
01-0603-7370	FUEL	8,000.00	4,751.57	5,000.00	6,291.01	6,500.00	2011 International
01-0603-7372	REPAIRS/MTCE	12,000.00	18,070.20	14,000.00	4,920.75	10,000.00	-
01-0603-7397	OTHER	2,000.00	1,917.50	2,000.00	1,917.50	2,000.00	Licence
01-0603-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0604-5550	RENTALS	-	-	-	-	-	-
01-0604-7110	LABOUR	-	-	-	-	-	-
01-0604-7370	FUEL	8,000.00	5,338.61	5,000.00	7,216.86	7,000.00	2018 Western Star
01-0604-7372	REPAIRS/MTCE	5,000.00	5,928.12	6,000.00	3,545.00	7,500.00	-
01-0604-7397	OTHER	2,000.00	1,917.50	2,000.00	1,917.50	2,000.00	Licence
01-0604-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0610-5550	RENTALS	-	-	-	-	-	-
01-0610-7110	LABOUR	-	-	-	-	-	-
01-0610-7370	FUEL	12,000.00	8,893.99	9,000.00	7,068.11	9,000.00	1997 CAT Grader
01-0610-7372	REPAIRS/MTCE	15,000.00	13,432.35	40,000.00	22,492.28	20,000.00	-
01-0610-7397	OTHER	-	-	-	-	-	-
01-0610-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0611-5550	RENTALS	-	-	-	-	-	-
01-0611-7110	LABOUR	-	-	-	-	-	-

## 0600-0639 - VEHICLES

Account	Description	2020 Budget	2020 Actual	2021 Budget	2021 Projecte	2022 Budget	COMMENTS
01-0611-7370	FUEL	12,000.00	9,936.37	10,000.00	10,702.66	12,000.00	2021 CAT grader
01-0611-7372	REPAIRS/MTCE	5,000.00	1,748.62	2,500.00	3,068.04	10,000.00	-
01-0611-7397	OTHER	-	-	-	-	-	-
01-0611-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0620-5550	RENTALS	-	-	-	-	-	-
01-0620-7110	LABOUR	-	-	-	-	-	-
01-0620-7370	FUEL	4,150.00	3,280.58	3,500.00	4,956.12	6,000.00	2017 Ford 4x4
01-0620-7372	REPAIRS/MTCE	3,000.00	2,716.15	3,000.00	1,673.45	6,000.00	-
01-0620-7397	OTHER	1,000.00	947.50	1,000.00	947.50	1,000.00	Licence
01-0620-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0621-5550	RENTALS	-	-	-	-	-	-
01-0621-7110	LABOUR	-	-	-	-	-	-
01-0621-7370	FUEL	3,000.00	2,611.08	3,000.00	3,355.10	4,000.00	2021 Dodge RAM 4x4
01-0621-7372	REPAIRS/MTCE	2,500.00	2,829.62	1,500.00	834.61	1,500.00	-
01-0621-7397	OTHER	150.00	120.00	150.00	50.00	150.00	Licence
01-0621-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0622-5550	RENTALS	-	-	-	-	-	-
01-0622-7110	LABOUR	-	-	-	-	-	-
01-0622-7370	FUEL	3,000.00	2,671.39	3,000.00	3,355.14	4,000.00	2019 Ford Pickup 4 x 4
01-0622-7372	REPAIRS/MTCE	2,000.00	2,080.86	1,000.00	44.57	1,500.00	-
01-0622-7397	OTHER	150.00	120.00	150.00	120.00	150.00	Licence
01-0622-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0623-5550	RENTALS	-	-	-	-	-	-
01-0623-7110	LABOUR	-	-	-	-	-	-
01-0623-7370	FUEL	-	-	-	-	-	-
01-0623-7372	REPAIRS/MTCE	1,000.00	403.57	750.00	76.46	750.00	Water Tank & Trailer
01-0623-7397	OTHER	-	-	-	-	-	-
01-0623-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0630-5550	RENTALS	-	-	-	-	-	-
01-0630-7110	LABOUR	-	-	-	-	-	-
01-0630-7370	FUEL	5,500.00	4,626.76	5,500.00	5,706.41	7,500.00	JD Tractor Loader - new one each year
01-0630-7372	REPAIRS/MTCE	5,000.00	4,325.17	5,000.00	5,836.97	2,500.00	-
01-0630-7397	OTHER	-	-	-	-	-	-
01-0630-7850	TCA - AMORTIZATION	-	-	-	-	-	-

## 0600-0639 - VEHICLES

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projecte</u>	<u>2022 Budget</u>	<u>COMMENTS</u>	
01-0631-5550	RENTALS	-	-	-	-	-		-
01-0631-7110	LABOUR	-	-	-	-	-		-
01-0631-7370	FUEL	5,500.00	4,907.15	5,500.00	6,504.71	7,500.00	2021 Case Backhoe	
01-0631-7372	REPAIRS/MTCE	5,000.00	5,877.85	5,000.00	3,534.22	6,000.00		-
01-0631-7397	OTHER	-	-	-	-	-		-
01-0631-7850	TCA - AMORTIZATION	-	-	-	-	-		-
01-0632-5550	RENTALS	-	-	-	-	-		-
01-0632-7110	LABOUR	-	-	-	-	-		-
01-0632-7370	FUEL	-	148.48	500.00	404.62	1,000.00	Massey Tractor Loader	
01-0632-7372	REPAIRS/MTCE	1,500.00	417.87	2,500.00	-	2,500.00		-
01-0632-7397	OTHER	-	-	-	-	-		-
01-0632-7850	TCA - AMORTIZATION	-	-	-	-	-		-
01-0633-5550	RENTALS	-	-	-	-	-		-
01-0633-7110	LABOUR	-	-	-	-	-		-
01-0633-7370	FUEL	-	508.13	750.00	1,123.74	1,500.00	Kubota Tractor	
01-0633-7372	REPAIRS/MTCE	1,000.00	1,006.94	1,500.00	331.34	2,000.00		-
01-0633-7397	OTHER	-	-	-	-	-		-
01-0633-7850	TCA - AMORTIZATION	-	-	-	-	-		-
01-0634-5550	RENTALS	-	-	-	-	-		-
01-0634-7110	LABOUR	-	-	-	-	-		-
01-0634-7370	FUEL	150.00	385.19	500.00	245.64	500.00	Small Engine Equipment	
01-0634-7372	REPAIRS/MTCE	1,500.00	1,460.23	2,000.00	2,143.94	5,000.00	Chain saws, etc.	
01-0634-7397	OTHER	-	-	-	-	-		-
01-0635-5550	RENTALS	-	-	-	-	-		-
01-0635-7110	LABOUR	-	-	-	-	-		-
01-0635-7372	REPAIRS/MTCE	2,000.00	1,577.65	2,000.00	694.08	500.00	Bush Hog	
01-0635-7397	OTHER	-	-	-	-	-		-
01-0636-5550	RENTALS	-	-	-	-	-		-
01-0636-7110	LABOUR	-	-	-	-	-		-
01-0636-7370	FUEL	-	-	-	-	-		-
01-0636-7372	REPAIRS/MTCE	2,000.00	2,759.53	2,000.00	9.33	500.00	Packer/Roller	
01-0636-7397	OTHER	-	-	-	-	-		-
01-0637-5550	RENTALS	-	-	-	-	-		-
01-0637-7110	LABOUR	-	-	-	-	-		-

## 0600-0639 - VEHICLES

Account	Description	2020 Budget	2020 Actual	2021 Budget	2021 Projects	2022 Budget	COMMENTS
01-0637-7370	FUEL	-	-	-	-	-	-
01-0637-7372	REPAIRS/MTCE	500.00	963.07	500.00	663.81	750.00	Sweeper
01-0637-7397	OTHER	-	-	-	-	-	-
01-0638-5550	RENTALS	-	-	-	-	-	-
01-0638-7110	LABOUR	-	-	-	-	-	-
01-0638-7370	FUEL	-	-	-	-	-	-
01-0638-7372	REPAIRS/MTCE	1,000.00	715.79	750.00	608.96	750.00	Trailer
01-0638-7397	OTHER	-	-	-	48.00	-	-
01-0638-7850	TCA - AMORTIZATION	-	-	-	-	-	-
01-0639-7372	REPAIRS/MTCE	500.00	-	500.00	121.80	500.00	Road Drag
<b>TOTAL EXPENDITURES - OPERATING</b>		<u>154,100.00</u>	<u>133,552.28</u>	<u>163,550.00</u>	<u>124,294.70</u>	<u>167,550.00</u>	
<b>CAPITAL - REVENUE</b>							
20-0600-4600	CONTRIBUTION RESERVES	<u>250,000.00</u>	-	<u>400,000.00</u>	<u>400,000.00</u>	<u>50,000.00</u>	For Truck Chassis
20-0600-8020	PICKUP TRUCK(S)	-	-	20,000.00	39,677.70	-	-
20-0600-8030	BACKHOE	-	-	95,000.00	93,052.52	-	-
20-0600-8031	TRAILER	-	-	-	-	-	-
20-0600-8032	GRADER	375,000.00	-	407,000.00	402,509.18	-	-
20-0600-8033	MOWER ETC	-	-	-	-	-	-
20-0600-8034	TRACTOR(S)	-	-	100,000.00	76,320.00	6,000.00	Tractor upgrade
20-0600-8035	PLOW TRUCK(S)	-	-	-	-	130,000.00	Truck Chassis
20-0600-8050	EQUIPMENT	-	-	29,000.00	35,608.82	20,000.00	Bush hog
20-0699-9500	TO TANGIBLE CAPITAL ASS	-	-	-	-	-	-
<b>CAPITAL EXPENDITURES</b>		<u>375,000.00</u>	-	<u>651,000.00</u>	<u>647,168.22</u>	<u>156,000.00</u>	

## 0671-0673 - SNOW REMOVAL

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-0671-7110	WAGES	-	-	-	-	-	-
01-0671-7118	BENEFITS	-	-	-	-	-	-
01-0671-7301	MATERIALS	30,000.00	22,991.02	25,000.00	27,500.70	27,500.00	Salt & Sand - costs up
01-0671-7350	MACHINE RENTS	-	-	-	-	-	-
01-0671-7397	MISCELLANEOUS	-	-	-	-	-	-
01-0671-7401	CONTRACTORS	-	513.24	-	-	-	-
01-0672-7110	WAGES	-	-	-	-	-	-
01-0672-7118	BENEFITS	-	-	-	-	-	-
01-0672-7301	MATERIALS	-	-	-	-	-	-
01-0672-7350	MACHINE RENTS	-	-	-	-	-	-
01-0672-7397	MISCELLANEOUS	-	-	-	-	-	-
01-0672-7401	CONTRACTORS	5,000.00	2,014.85	1,500.00	1,424.63	2,000.00	Snowplowing -rent
01-0673-7110	WAGES	-	-	-	-	-	-
01-0673-7118	BENEFITS	-	-	-	-	-	-
01-0673-7301	MATERIALS	-	-	-	-	-	-
01-0673-7350	MACHINE RENTS	-	-	-	-	-	-
01-0673-7397	MISCELLANEOUS	-	-	-	-	-	-
01-0673-7401	CONTRACTORS	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>35,000.00</u>	<u>25,519.11</u>	<u>26,500.00</u>	<u>28,925.33</u>	<u>29,500.00</u>	



**0751 - STRT LIGHTS - ALVINSTON**

For Discussion Purposes Only

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-0751-7306	UTILITIES - HYDRO	12,000.00	8,807.85	10,500.00	9,782.25	10,500.00	-
01-0751-7345	REPAIRS/REPLACEMENTS	2,500.00	1,356.98	2,500.00	1,791.53	2,500.00	-
01-0751-7710	TRANSFER - CAPITAL FD	-	-	-	-	-	-
01-0751-7810	TRANSFER - CAPITAL FUND	-	-	-	-	-	-
01-0751-7820	TRANSFER TO RESERVE - ALVINSTON	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>14,500.00</u>	<u>10,164.83</u>	<u>13,000.00</u>	<u>11,573.78</u>	<u>13,000.00</u>	
<b>CAPITAL</b>							
20-0751-4500	REVENUE FUND	-	-	-	-	-	-
20-0751-8014	NEW LIGHTS	-	-	-	-	-	-
20-0751-9500	TO TANGIBLE CAPITAL ASSETS	-	-	-	-	-	-
<b>TOTAL EXPENDITURES - CAPITAL</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

# 0752-STRT LIGHTS - INWOOD

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>OPERATING EXPENDITURES</b>							
01-0752-7306	UTILITIES - HYDRO	6,000.00	5,397.03	6,000.00	5,651.32	6,000.00	-
01-0752-7345	REPAIRS/REPLACEMENTS	750.00	-	750.00	-	750.00	-
01-0752-7810	TRANSFER - CAPITAL FD	-	-	-	-	-	-
<b>TOTAL EXPENDITURES - OPERATING</b>		<u>6,750.00</u>	<u>5,397.03</u>	<u>6,750.00</u>	<u>5,651.32</u>	<u>6,750.00</u>	

## 0810 - SEWER - ALVINSTON

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
<b>TAXATION</b>							
01-0016-0061	SEWER SERVICE CHARGE	3,698.10	3,634.80	3,634.80	3,634.80	3,634.80	Last year
01-0016-0063	SEWER CONNECTION CHARGE	2,235.00	2,205.00	2,205.00	2,205.00	2,205.00	Last year
<b>TOTAL TAXATION</b>		<b>5,933.10</b>	<b>5,839.80</b>	<b>5,839.80</b>	<b>5,839.80</b>	<b>5,839.80</b>	
<b>OPERATING</b>							
01-0810-5520	SEWER BILLINGS	40,000.00	39,384.35	40,320.00	34,467.33	41,933.00	~24,000 m3 @ 1.75
01-0810-5521	SEWER BILLING FLATE RATE	160,000.00	159,929.31	162,577.00	162,514.81	169,080.00	~73.20/bill *6 bills * 385 users
01-0810-5525	SEWER CHARGES - OTHER	2,500.00	4,291.58	2,500.00	5,112.75	2,550.00	School recoveries - bioxide
<b>TOTAL OPERATING REVENUE</b>		<b>202,500.00</b>	<b>203,605.24</b>	<b>205,397.00</b>	<b>202,094.89</b>	<b>213,563.00</b>	
<b>EXPENDITURES</b>							
01-0810-7111	ADMINISTRATION CHARGES PAYROLL	13,000.00	11,544.75	13,000.00	13,008.37	13,260.00	Allocated from Admin, etc.
01-0810-7230	L T DEBT CHGS - INTEREST	2,509.32	2,509.32	2,078.29	2,078.28	1,854.00	Actual per Amort schedule
01-0810-7301	OFFICE SUPPLIES	-	-	-	-	-	-
01-0810-7303	PHONE SERVICE	1,800.00	1,623.97	1,800.00	1,613.28	1,836.00	-
01-0810-7305	POSTAGE AND COURIER	1,250.00	851.44	1,250.00	943.09	1,275.00	For mailing invoices
01-0810-7306	UTILITIES	25,000.00	24,718.30	25,000.00	25,225.17	25,500.00	-
01-0810-7310	COMPUTER TECHNOLOGY & SUPPORT	-	-	-	-	-	-
01-0810-7315	INSURANCE	6,421.00	6,420.39	7,127.00	6,974.64	8,020.00	Estimated 15% increase
01-0810-7340	BUILDING REPAIRS AND MAINTENANCE	1,500.00	80.39	1,500.00	1,227.23	2,500.00	Includes inspection
01-0810-7346	SYSTEM REPAIRS	-	356.16	-	-	-	-
01-0810-7347	SCHOOL SEWER LINE WORK	5,000.00	4,331.20	2,500.00	3,317.04	2,550.00	New chemical
01-0810-7398	ADJUSTMENTS SMALL BAL W/O'S	-	-	-	126.22	-	-
01-0810-7399	OTHER	12,000.00	12,000.00	12,000.00	12,000.00	12,240.00	Water sys, hydro & water allocated
01-0810-7430	CONTRACTED SERVICE - CONSULTING	-	-	-	3,764.73	-	-
01-0810-7432	OPERATING & MTCE	25,000.00	40,103.84	30,000.00	38,687.86	30,600.00	R & M - Central Sanitation, Alum, callouts, etc.
01-0810-7455	CONTRACTED SERVICE - OCWA	81,737.37	81,737.40	81,737.37	81,737.40	84,189.50	OCWA 9,081.93*1.03/month -25% to Inwood
01-0810-7456	CONTRACTED SERVICE - SPECIAL	-	-	7,500.00	7,632.00	-	Capital Plan
01-0810-7550	W/O FRONTAGE/CONNECTION CHARGES	-	41.40	-	41.40	-	-
01-0810-7730	L T DEBT - PRINCIPAL	16,613.87	16,613.87	4,950.00	4,950.00	4,950.00	Actual per loan schedules
01-0810-7750	INTERNAL INWOOD TREATMENT SHARE	(21,000.00)	(21,000.00)	(21,200.00)	(20,000.00)	(20,400.00)	Approx. 20% to Inwood for share of operating costs based on flows
01-0810-7810	TRANSFER TO CAPITAL FUND	-	-	-	-	-	-

## 0810 - SEWER - ALVINSTON

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
01-0810-7820	TRANSFER TO RESERVES	37,601.54	27,512.61	41,994.14	24,607.98	51,028.30	-
<b>TOTAL OPERATING EXPENDITURES</b>		<u>208,433.10</u>	<u>209,445.04</u>	<u>211,236.80</u>	<u>207,934.69</u>	<u>219,402.80</u>	
<b>NET REVENUES OVER EXPENDITURES</b>		<u>-</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	
<b>CAPITAL</b>							
<b>REVENUE</b>							
20-0811-4310	LTL - ONTARIO FINANCING AUTHORITY	-	-	-	-	-	-
20-0811-4345	LTL - LONG TERM BANK LOANS	-	-	-	-	105,000.00	Loan to finance Sewer plant upgrades
20-0811-4500	CONTRIBUTION REVENUE FUND	-	-	-	-	-	-
20-0811-4600	RESERVE FUND CONTRIBUTION	110,000.46	173,226.48	-	-	75,000.00	-
20-0811-5000	ONTARIO GRANTS	-	-	-	-	-	-
20-0811-5100	CANADA GRANTS	-	-	-	-	-	-
20-0814-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-	-
20-0814-4501	INWOOD PROJECT CONTRIBUTION	-	-	-	-	45,000.00	Inwood share of upgrades
20-0814-4600	RESERVE CONTRIBUTION	-	-	-	-	-	-
20-0814-5000	ONTARIO GRANTS	-	-	-	-	-	-
20-0814-5100	CANADA GRANTS	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		<u>110,000.46</u>	<u>173,226.48</u>	<u>-</u>	<u>-</u>	<u>225,000.00</u>	
<b>EXPENDITURES</b>							
20-0811-8041	BUILDING IMPROVEMENTS	-	-	-	-	-	-
20-0811-8050	EQUIPMENT	110,000.00	173,226.13	-	-	225,000.00	Bar Screens, sludge pumps, etc.
20-0811-8060	PUMP STATION # 1	-	-	-	-	-	-
20-0812-7401	CONTRACTOR	-	-	-	-	-	-
20-0812-7431	ENGINEERING	-	-	-	-	-	-
20-0812-9500	TO TANGIBLE CAPITAL ASSETS	-	(173,226.00)	-	-	-	-
20-0813-7307	ADVERTISING & OTHER EXPENSES	-	-	-	-	-	-
20-0814-7431	ENGINEERING	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>110,000.00</u>	<u>0.13</u>	<u>-</u>	<u>-</u>	<u>225,000.00</u>	
<b>NET CAPITAL</b>		<u>0.46</u>	<u>173,226.35</u>	<u>-</u>	<u>-</u>	<u>-</u>	

## 0811 - SEWER - INWOOD

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVEUNE</b>							
<b>TAXATION</b>							
01-0016-0054	INWOOD SEWER CAPITAL	60,874.08	60,874.08	60,874.08	69,424.74	59,564.96	8 years to go (91 x 654.56)
01-0016-0055	INWOOD SEWER CONNECTION	2,100.00	2,138.77	1,958.00	1,867.54	1,710.55	8 years to go
<b>TOTAL TAXATION</b>		<u>62,974.08</u>	<u>63,012.85</u>	<u>62,832.08</u>	<u>71,292.28</u>	<u>61,275.51</u>	
<b>OPERATING</b>							
01-0811-5520	SEWER BILLINGS	58,950.00	58,590.00	59,761.80	58,069.30	62,152.00	Estimate = 642.60*93 properties
01-0811-5525	SEWER CHARGES - OTHER	-	3,365.79	-	-	-	Amortize debt prelevy
<b>TOTAL OPERATING REVENUE</b>		<u>58,950.00</u>	<u>61,955.79</u>	<u>59,761.80</u>	<u>58,069.30</u>	<u>62,152.00</u>	
<b>EXPENDITURES</b>							
01-0811-7230	L T DEBT CHGS - INTEREST	18,685.84	18,685.83	16,815.27	16,815.27	14,996.99	per debt schedule
01-0811-7303	PHONE SERVICE	750.00	501.43	600.00	537.72	612.00	-
01-0811-7306	UTILITIES	4,000.00	2,931.19	3,500.00	3,041.30	3,570.00	-
01-0811-7315	INSURANCE	1,345.00	1,344.28	1,493.00	1,455.30	1,675.00	Estimated 15% increase
01-0811-7346	SYSTEM REPAIRS	-	5,992.14	-	-	-	-
01-0811-7432	OPERATING & MTCE	5,000.00	1,438.68	5,000.00	1,080.00	5,100.00	clean out pump station, call outs, etc.
01-0811-7455	CONTRACTED SERVICE - OCWA	27,245.79	27,245.76	27,245.79	27,245.76	28,063.16	OCWA 9,081.93*1.03/month -25% to Inwood
01-0811-7456	CONTRACTED SERVICE - OCWA SF	-	-	-	-	-	-
01-0811-7550	W/O DEBT CHARGES	1,309.12	758.29	654.56	654.56	654.56	W/O sewer capital charges on 1 municipal owned prop
01-0811-7551	W/O OPERATION CHARGES	-	-	-	-	-	-
01-0811-7730	L T DEBT - PRINCIPAL	40,050.00	40,050.00	40,050.00	40,050.00	40,050.00	Per debt schedule
01-0811-7750	INTERNAL TREATMENT SHARE	21,000.00	21,000.00	21,200.00	20,000.00	20,400.00	Share of Alvinston operating costs
01-0811-7810	TRANSFER TO CAPITAL FUND	-	-	-	-	-	-
01-0811-7820	TRANSFER TO RESERVES	2,538.33	5,021.04	6,035.26	18,481.67	8,305.80	-
<b>TOTAL EXPENDITURES</b>		<u>121,924.08</u>	<u>124,968.64</u>	<u>122,593.88</u>	<u>129,361.58</u>	<u>123,427.51</u>	
<b>NET EXPENDIURES OVER REVENUE</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

## 0811 - SEWER - INWOOD

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>CAPITAL</b>							
<b>REVENUE</b>							
20-0810-4310	LTL - ONTARIO FINANCING AUTHI	-	-	-	-	-	-
20-0810-4345	LTL - LONG TERM BANK LOANS	-	-	-	-	20,000.00	Share of Loan for Alvinston upgrades
20-0810-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-	-
20-0810-4600	RESERVE CONTRIBUTION	-	-	-	-	25,000.00	-
20-0810-5000	ONTARIO GRANTS	-	-	-	-	-	-
20-0810-5100	CANADA GRANTS	-	-	-	-	-	-
20-0810-5200	FED CWWF	-	-	-	-	-	-
20-0810-5510	PREPAID SPECIAL CHARGES	-	-	-	-	-	-
20-0810-5520	PROCEEDS FROM SALE OF LAND	-	-	-	-	-	-
20-0810-5550	INVESTMENT INCOME OWN FUN	-	-	-	-	-	-
20-0810-5560	INVESTMENT INCOME FROM OTI	-	-	-	-	-	-
<b>TOTAL REVENUE - CAPITAL</b>		-	-	-	-	45,000.00	
<b>EXPENDITURES</b>							
20-0810-7307	ADVERTISING & OTHER EXPENSES	-	-	-	-	-	-
20-0810-7398	LICENCES & PERMITS	-	-	-	-	-	-
20-0810-7401	CONTRACTOR	-	-	-	-	-	-
20-0810-7402	TO SHARE ALVINSTON UPGRADES	-	-	-	-	45,000.00	Alvinston Upgrades - share
20-0810-7403	LINE INSTALLATION	-	-	-	-	-	-
20-0810-7404	ROAD RESTORATION	-	-	-	-	-	-
20-0810-7431	ENGINEERING	-	-	-	-	-	-
20-0810-8012	EQUIPMENT	-	-	-	-	-	-
<b>TOTAL EXPENDITURES - CAPITAL</b>		-	-	-	-	45,000.00	
<b>NET CAPITAL</b>		-	-	-	-	-	

**0820 - STORM SEWER**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-0820-7230	L T DEBT CHGS - INTEREST	10,613.67	10,613.67	9,152.02	8,397.97	7,653.30	Inwood Storm Sewer to 2026
01-0820-7730	L T DEBT - PRINCIPAL	<u>57,638.75</u>	<u>57,638.75</u>	<u>59,100.40</u>	<u>59,854.45</u>	<u>60,599.12</u>	Inwood Storm Sewer to 2026
		<u>68,252.42</u>	<u>68,252.42</u>	<u>68,252.42</u>	<u>68,252.42</u>	<u>68,252.42</u>	

## 0830 - WATER

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>OPERATING REVENUE</b>							
01-0830-5000	RESERVE FUND	-	-	-	-	-	-
01-0830-5501	WATER CERTIFICATES	-	-	-	-	-	-
01-0830-5520	WATER BILLINGS	91,500.00	95,941.61	93,300.00	88,953.93	94,979.00	30,000 m3 @ 3.17
01-0830-5521	WATER BILLING FLAT RATE	228,780.00	229,933.11	233,355.60	234,164.63	237,556.00	96.57 * 6 billings * 410 users
01-0830-5525	WATER OTHER REVENUE	-	450.00	-	75.00	-	-
01-0830-5530	SALE OF WATER	2,100.00	2,100.00	2,100.00	2,100.00	2,100.00	County Fire Radio Tower Rental
01-0830-5531	SALE OF WATER OUTSIDE USERS	-	-	-	-	-	-
01-0830-5535	WATER TOWER	10,000.00	7,181.06	7,125.00	5,303.43	7,267.50	~1,500 m3 * 4.75
01-0830-5550	SALE OF METERS/INSTALL	-	3,800.15	-	2,401.65	-	-
01-0830-5575	CONNECTION CHARGES	-	10,723.84	-	3,500.00	-	-
<b>TOTAL OPERATING REVENUE</b>		<u>332,380.00</u>	<u>350,129.77</u>	<u>335,880.60</u>	<u>336,498.64</u>	<u>341,902.50</u>	
<b>EXPENDITURES</b>							
01-0830-7111	ADMINISTRATION CHARGES PAYROLL	15,000.00	14,110.25	15,000.00	14,966.63	15,300.00	Allocated from Admin, etc.
01-0830-7125	PROTECTIVE CLOTHING	-	-	-	-	-	-
01-0830-7230	L T DEBT CHGS - INTEREST	13,653.67	13,653.71	12,221.34	12,221.34	11,529.00	per loan schedules
01-0830-7301	OFFICE SUPPLIES	-	119.89	-	-	-	-
01-0830-7303	PHONE/INTERNET SERVICES	870.00	546.24	870.00	537.72	887.40	-
01-0830-7305	POSTAGE AND COURIER	1,500.00	1,123.48	1,500.00	1,152.67	1,530.00	Allocated for mailing bills & statements
01-0830-7306	UTILITIES	16,000.00	10,545.73	16,000.00	9,608.14	16,320.00	-
01-0830-7307	ADVERTISING	-	-	-	-	-	-
01-0830-7309	HEATING	-	-	-	-	-	-
01-0830-7310	COMPUTER TECHNOLOGY & SUPPORT	-	305.28	1,500.00	-	1,500.00	-
01-0830-7312	WATER PURCHASES	107,100.00	93,009.96	110,700.00	94,585.87	114,300.00	90,000 estimate @ 1.27 per m3
01-0830-7315	INSURANCE	8,633.00	8,632.99	9,583.00	9,398.70	10,808.00	Estimated 15% increase
01-0830-7340	BUILDING REPAIRS AND MAINTENANCE	1,500.00	351.11	1,500.00	-	2,750.00	includes inspection
01-0830-7395	ADMINISTRATION	-	-	-	-	-	-
01-0830-7398	ADJUSTMENTS SMALL BAL W/O	-	-	-	1,395.40	-	-
01-0830-7399	OTHER	(12,000.00)	(12,000.00)	(12,000.00)	(12,000.00)	(12,000.00)	To sewer - unmetered water/hydro usage
01-0830-7432	OPERATING & MTCE	15,000.00	15,391.98	15,000.00	13,587.68	15,300.00	Call outs, tests & repairs, etc.
01-0830-7433	WATER METER READING	-	-	-	-	-	-
01-0830-7434	WATER METERS	-	-	-	457.92	-	-
01-0830-7455	CONTRACTED SERVICE - OCWA	97,131.48	97,131.36	97,131.48	97,131.36	100,045.42	8,094.29*1.03 x 12
01-0830-7456	CONTRACTED SERVICE - OCWA - SPECIAL	-	-	7,500.00	7,632.00	-	Capital Plan
01-0830-7550	W/O FRONTAGE/CONNECTION CHGS	-	-	-	-	-	-



## 0830 - WATER

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>	
01-0830-7710	TRANSFER - CAPITAL FD	-	-	-	-	-		-
01-0830-7730	L T DEBT - PRINCIPAL	41,560.83	41,560.83	27,096.72	27,096.72	27,789.00	from schedule	-
01-0830-7810	TRANSFERS TO CAPITAL FUND	-	-	-	-	-		-
01-0830-7820	TRANSFERS TO RESERVES	26,431.02	65,646.96	32,278.06	54,961.76	35,843.68		-
<b>TOTAL EXPENDITURES</b>		<u>332,380.00</u>	<u>350,129.77</u>	<u>335,880.60</u>	<u>336,498.64</u>	<u>341,902.50</u>		
<b>NET EXPENDITURES OVER REVENUE - OPERATING</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>		
<b>CAPITAL</b>								
<b>REVENUE</b>								
20-0830-4600	RESERVE FUND CONTRIBUTION	-	(67,401.03)	-	-	73,000.00	Efficiency Funding that is in reserves	-
20-0830-5000	ONTARIO GRANTS	75,115.63	75,115.63	-	-	-		-
20-0830-5100	FEDERAL	-	-	-	-	-		-
20-0831-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-		-
20-0831-4600	RESERVE CONTRIBUTION	-	-	-	(7,882.15)	-		-
20-0834-5510	PREPAID SPECIAL CHARGES	-	-	-	21,523.89	-		-
20-0835-4600	RESERVE/RESERVE FD CONTRIBUTION	-	-	-	-	-		-
20-0835-5005	GAS TAX	-	-	-	-	-		-
<b>TOTAL REVENUE</b>		<u>75,115.63</u>	<u>7,714.60</u>	<u>-</u>	<u>13,641.74</u>	<u>73,000.00</u>		
<b>EXPENDITURES</b>								
20-0830-7401	CONTRACTOR	65,918.43	-	-	9,115.46	-		-
20-0830-7431	ENGINEERING	-	-	-	4,526.28	60,000.00	Decommission clear well	-
20-0830-8041	BUILDING UPGRADES	-	-	-	-	-		-
20-0830-8050	EQUIPMENT	9,197.20	7,714.60	-	-	13,000.00	Chemical Pumps & leak detection	-
20-0831-7307	ADVERTISING	-	-	-	-	-		-
20-0831-9500	TO TANGIBLE CAPITAL ASSETS	-	(7,428.00)	-	-	-		-
20-0835-7425	METERS READER SOFTWARE	-	-	-	-	-		-
<b>TOTAL EXPENDITURES</b>		<u>75,115.63</u>	<u>286.60</u>	<u>-</u>	<u>13,641.74</u>	<u>73,000.00</u>		
<b>NET</b>		<u>-</u>	<u>7,428.00</u>	<u>-</u>	<u>-</u>	<u>-</u>		

## 0840 - WASTE COLLECTION

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-0840-5505	OTHER REVENUE	-	782.10	-	2,660.10	-	-
<b>TOTAL REVENUE</b>		-	782.10	-	2,660.10	-	
<b>EXPENDITURES</b>							
01-0840-7480	WASTE COLLECTION	56,268.00	56,267.84	57,000.00	56,843.46	60,230.00	\$79,250 from Bluewater recycling
01-0840-7481	LARGE ITEM COLLECTION	7,500.00	8,764.57	8,000.00	9,502.78	9,500.00	One collection day in the spring/fall
01-0840-7482	GARBAGE COLLECTION - ALVINSTON 19.98%	14,067.00	14,067.04	14,250.00	14,210.56	15,057.50	Estimated allocation
01-0840-7483	GARBAGE COLLECTION - INWOOD 10	3,702.00	3,701.88	3,750.00	3,739.58	3,962.50	Estimated allocation
<b>TOTAL EXPENDITURES</b>		81,537.00	82,801.33	83,000.00	84,296.38	88,750.00	
		(81,537.00)	(82,019.23)	(83,000.00)	(81,636.28)	(88,750.00)	

## 0860 - RECYCLING

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-0860-5050	WASTE DIVERSION ONT (BLUEWATER)	-	-	-	-	-	-
01-0860-5505	SALE OF BLUE BOX ETC	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		-	-	-	-	-	
<b>EXPENDITURES</b>							
01-0860-7399	OTHER MATERIAL FOR RESALE	-	-	-	-	-	-
							~80,350 gross from Bluewater
01-0860-7480	RECYCLING	59,279.00	59,279.15	60,040.00	59,874.17	61,066.00	recycling
01-0860-7482	RECYLING - ALVINSTON 38%	14,820.00	14,819.79	15,010.00	14,968.54	15,266.50	Estimated allocation
01-0860-7483	RECYCLING - INWOOD 10%	3,900.00	3,899.94	3,950.00	3,939.09	4,017.50	Estimated allocation
<b>TOTAL EXPENDITURES</b>		77,999.00	77,998.88	79,000.00	78,781.80	80,350.00	
<b>NET EXPENDITURES OVER REVENUE</b>		(77,999.00)	(77,998.88)	(79,000.00)	(78,781.80)	(80,350.00)	

**1020 - HOSPITAL & CEMETERIES**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-1020-7400	COUNTY SPECIAL HOSPITAL LEVY	-	-	-	-	-	-
01-1020-7683	TRANSFERS TO OTHERS	400.00	300.00	400.00	300.00	5,300.00	5K to 4 Counties; \$300 to Lambton Recruit.
01-1020-7820	TRANSFER TO RESERVE	-	-	-	-	(3,150.00)	From Reserves
01-1040-7471	FEES AND PERMITS	-	-	-	-	-	-
01-1040-7683	GRANTS TO CEMETERIES	450.00	450.00	450.00	450.00	450.00	St. James, Mt Carmel, Saunders (\$150 each)
<b>TOTAL EXPENDITURES</b>		<u>850.00</u>	<u>750.00</u>	<u>850.00</u>	<u>750.00</u>	<u>2,600.00</u>	

## 1045 - CEMETERY

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1045-5505	GRAVE OPENINGS	11,000.00	16,500.00	11,000.00	11,000.00	11,000.00	Estimates
01-1045-5506	LOT SALES	2,500.00	2,700.00	2,500.00	2,500.00	2,500.00	Estimates
01-1045-5507	FOUNDATIONS	-	-	-	-	-	-
01-1045-5508	BURIAL RIGHTS	-	900.00	-	-	-	-
01-1045-5550	OTHER INCOME	48,893.00	21,216.29	49,013.00	49,013.00	49,200.00	From Cemetery reserves
01-1045-6810	INTEREST - PERPETUAL CARE FUNDS	4,000.00	3,904.24	4,000.00	4,000.00	4,000.00	Estimates
01-1045-6811	INTEREST - CEMETERY INVESTMENTS	3,000.00	757.01	3,000.00	3,000.00	3,000.00	Estimates
01-1045-6812	MUTUAL FUNDS GROWTH	3,000.00	7,573.24	3,000.00	3,000.00	3,000.00	Estimates
01-1045-6813	INTEREST - MUNICIPAL DEBENTURES	1,000.00	373.08	1,000.00	1,000.00	1,000.00	Estimates
01-1045-6830	DONATIONS	12,000.00	19,704.13	12,000.00	12,000.00	12,000.00	Estimates
<b>TOTAL REVENUE</b>		<u>85,393.00</u>	<u>73,627.99</u>	<u>85,513.00</u>	<u>85,513.00</u>	<u>85,700.00</u>	
<b>EXPENDITURES</b>							
01-1045-7110	SALARY & WAGES	45,000.00	44,395.81	45,000.00	45,000.00	45,000.00	Estimates
01-1045-7116	STATUTORY BENEFITS	15,000.00	10,393.26	15,000.00	15,000.00	15,000.00	Estimates
01-1045-7117	BENEFITS - MUNICIPAL	3,800.00	52.08	3,800.00	3,800.00	3,800.00	Estimates
01-1045-7301	OFFICE	3,000.00	2,313.41	3,000.00	3,000.00	3,000.00	Estimates
01-1045-7303	PHONE	1,300.00	1,461.46	1,300.00	1,300.00	1,300.00	Estimates
01-1045-7306	UTILITIES	1,200.00	973.55	1,200.00	1,200.00	1,200.00	Estimates
01-1045-7311	EQUIPMENT MAINTENANCE	3,000.00	2,325.03	3,000.00	3,000.00	3,000.00	Estimates
01-1045-7315	INSURANCE	1,093.00	1,092.96	1,213.00	1,213.00	1,400.00	Estimates
01-1045-7341	GROUPS MAINTENANCE	3,500.00	4,114.16	3,500.00	3,500.00	3,500.00	Estimates
01-1045-7342	GRAVE OPENINGS	5,000.00	3,423.24	5,000.00	5,000.00	5,000.00	Estimates
01-1045-7343	MEMORIAL GARDENS	3,500.00	3,083.03	3,500.00	3,500.00	3,500.00	Estimates
01-1045-7525	LOSS ON MUTUAL FUNDS	-	-	-	-	-	-
01-1045-7810	TRANSFER TO CAPITAL FUND	-	-	-	-	-	-
01-1045-7820	TRANSFER TO RESERVES	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>85,393.00</u>	<u>73,627.99</u>	<u>85,513.00</u>	<u>85,513.00</u>	<u>85,700.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

1045 - CEMETERY

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>CAPITAL</b>							
20-1045-4500	CONTRIBUTION REVENUE FUND	-	-	-	-	-	-
20-1045-8010	CEMETERY EQUIPMENT	-	-	-	-	-	-
20-1045-8015	CEMETERY MEMORIAL GARDENS	-	-	-	-	-	-
<b>TOTAL</b>		-	-	-	-	-	

## 1620 RECREATION

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
01-1620-7680	INWOOD RECREATION	-	-	-	-	-	-
01-1620-7681	TWP OF WARWICK - RECREATION GRANT	-	-	-	-	-	-
01-1620-7682	CANADA DAY GRANT	-	-	-	-	-	Canada Day has sufficient funds
01-1620-7810	TRANSFER TO CAPITAL FUNDS	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>CAPITAL</b>							
20-1620-1830	DONATIONS	15,000.00	5,000.00	235,000.00	235,555.95	-	-
20-1620-4500	REVENUE/RESERVE FUND CONTRIBUTION	-	-	80,000.00	80,000.00	(62,817.92)	To Reserves per Council Resolution
20-1620-5000	ONTARIO GRANTS	-	-	-	-	62,817.92	Mainstreet washroom funding
20-1620-5100	CANADA GRANTS	-	-	-	11,000.00	-	-
<b>TOTAL REVENUE</b>		<u>15,000.00</u>	<u>5,000.00</u>	<u>315,000.00</u>	<u>326,555.95</u>	<u>-</u>	

20-1620-7405	MATERIALS	30,000.00	16,741.15	-	2,362.21	-	-
20-1620-8011	SEWER	-	-	-	-	-	-
20-1620-8013	LIGHTING	-	-	-	-	-	-
20-1620-8014	FENCING	-	-	-	-	-	-
20-1620-8015	BUILDING UPGRADES	80,000.00	-	315,000.00	313,055.95	-	-
20-1634-1830	DONATIONS	-	-	-	-	-	-
20-1634-1835	OTHER REVENUE	-	-	-	-	-	-
20-1634-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-	-
20-1634-4600	RESERVE (FD) CONTR'N	-	-	-	-	-	-
20-1634-8013	LIGHTS, POLES ETC	-	-	-	-	-	-
20-1634-9500	TO TANGIBLE CAPITAL ASSETS	-	(21,493.00)	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>110,000.00</u>	<u>(4,751.85)</u>	<u>315,000.00</u>	<u>315,418.16</u>	<u>-</u>	
<b>NET</b>		<u>(95,000.00)</u>	<u>9,751.85</u>	<u>-</u>	<u>11,137.79</u>	<u>-</u>	

## 1635 - ALVIN COMMUNITY CENTRE

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1635-5550	ICE RENTALS	135,000.00	123,251.00	70,000.00	112,338.07	130,000.00	Full year, not quite
01-1635-5551	SKATE SHARPENING	500.00	604.43	250.00	82.30	500.00	Full year, not quite
01-1635-5552	ADVERTISING	5,000.00	7,560.00	3,500.00	7,350.00	7,500.00	Full year, not quite
01-1635-5553	ARENA FLOOR RENTAL	2,500.00	-	500.00	-	2,500.00	Full year, not quite
01-1635-5555	HALL RENTS - CC	20,000.00	7,340.08	10,000.00	7,880.79	20,000.00	2/3rds
01-1635-5556	ROOM RENTS - ARENA	3,000.00	2,621.00	1,500.00	1,661.75	3,000.00	2/3rds
01-1635-5557	GROUND RENTS	1,500.00	-	500.00	3,462.55	1,500.00	Full year
01-1635-5558	OTHER RENTS	-	-	-	-	-	-
01-1635-5560	PROGRAM - BALL HOCKEY	500.00	-	-	477.90	500.00	-
01-1635-5561	PROGRAM - YOGA	-	6.86	-	-	-	-
01-1635-5562	PROGRAM - PUBLIC SKATING	500.00	673.07	300.00	77.00	300.00	-
01-1635-5571	BAR	2,500.00	326.50	2,000.00	910.50	3,000.00	-
01-1635-5575	OTHER REVENUES	2,000.00	2,914.41	1,000.00	677.77	2,000.00	-
01-1635-6500	FROM TAXATION	-	-	-	-	-	-
01-1635-6501	DISCOUNTS	(17,500.00)	(3,908.50)	(4,000.00)	(889.00)	(15,000.00)	Fair board, Canada Day & other disc
<b>TOTAL REVENUE</b>		<u>155,500.00</u>	<u>141,388.85</u>	<u>85,550.00</u>	<u>134,029.63</u>	<u>155,800.00</u>	
<b>EXPENDITURES</b>							
01-1635-7110	SALARY/WAGES	175,000.00	167,357.31	143,000.00	194,707.53	197,000.00	Per Payroll Budget
01-1635-7111	INTERNAL RECOVERIES/CHARGEBACKS	(5,000.00)	(8,695.00)	(5,000.00)	(7,344.00)	(7,500.00)	Grass Inwood Park/Alvin Firehall/subsidy
01-1635-7116	BENEFITS - STATATORY	18,250.00	17,117.05	16,500.00	21,342.70	23,750.00	Per Payroll Budget
01-1635-7117	BENEFITS - MUNICIPAL	35,750.00	24,749.20	26,000.00	23,726.29	26,000.00	Per Payroll Budget
01-1635-7125	PROTECTIVE CLOTHING	4,500.00	4,869.76	3,500.00	2,649.80	3,500.00	-
01-1635-7150	EDUCATION & TRAINING	3,000.00	892.00	3,000.00	423.98	5,000.00	Refrigeration training
01-1635-7230	L T DEBT CHGS - INTEREST	-	-	-	-	-	-
01-1635-7301	OFFICE SUPPLIES	300.00	341.82	300.00	212.97	300.00	-
01-1635-7302	OFFICE EQUIPMENT	1,000.00	-	1,000.00	-	1,000.00	-
01-1635-7303	PHONE/INTERNET SERVICE	3,500.00	2,823.91	3,500.00	2,377.03	3,000.00	-
01-1635-7304	COPYING & PRINTING	250.00	36.97	250.00	-	250.00	-
01-1635-7305	POSTAGE/COURIER	-	-	-	-	-	-
01-1635-7306	UTILITIES	70,000.00	54,317.01	50,000.00	42,631.82	65,000.00	Back to pre-pandemic levels
01-1635-7307	ADVERTISING	1,000.00	884.72	500.00	170.72	500.00	-
01-1635-7309	HEATING	13,000.00	13,337.50	13,000.00	11,337.97	15,000.00	Will go higher with carbon tax
01-1635-7310	COMPUTER TECHNOLOGY & SUPPORT	1,000.00	90.00	1,000.00	-	1,500.00	Possible direct link to office
01-1635-7315	INSURANCE	43,733.00	38,925.27	48,201.00	48,069.86	55,280.00	Estimated 15% increase



## 1635 - ALVIN COMMUNITY CENTRE

Account	Description	2020 Budget	2020 Actual	2021 Budget	2021 Projected	2022 Budget	COMMENTS
01-1635-7320	ASSOCIATION FEES & MEMBERSHIPS	850.00	-	850.00	770.00	800.00	-
01-1635-7330	ARENA ICE SURFACE	2,500.00	3,673.22	3,500.00	2,410.75	3,500.00	-
01-1635-7340	BUILDING REPAIRS & MAINTENANCE	25,000.00	27,579.30	22,500.00	19,488.76	25,000.00	Lots of small R & M, plus inspection
01-1635-7341	GROUND MAINTENANCE	3,500.00	816.28	1,000.00	4,603.09	8,000.00	Gravel & area by old canteen
01-1635-7342	KITCHEN EQUIPMENT	-	-	-	-	-	-
01-1635-7343	BALL DIAMONDS	1,500.00	-	1,000.00	-	5,000.00	-
01-1635-7372	EQUIPMENT REPAIRS & MTCE	30,000.00	18,630.67	22,500.00	28,363.47	22,500.00	Lots of small R & M
01-1635-7375	VEHICLE RENTAL - PARKS	-	-	-	-	-	-
01-1635-7381	BAR SUPPLIES	2,250.00	626.89	750.00	251.10	1,500.00	-
01-1635-7383	ICE SUPPLIES	1,250.00	128.00	150.00	283.20	1,000.00	-
01-1635-7384	KITCHEN SUPPLIES	1,500.00	803.50	1,000.00	231.52	1,000.00	-
01-1635-7398	BAD DEBT EXPENSE	-	-	-	-	-	-
01-1635-7399	OTHER MATERIAL	1,000.00	810.00	750.00	375.25	750.00	Service awards & prog supplies
01-1635-7430	CONTRACTED SERVICE - CONSULTING	-	-	-	-	-	-
01-1635-7441	CONSULTING - HEALTH & SAFETY	500.00	-	-	-	-	-
01-1635-7470	CONTRACTED SERVICES - PROGRAM IN	-	300.00	-	-	-	-
01-1635-7730	L T DEBT - PRINCIPAL	-	-	-	-	-	-
01-1635-7810	TRANSFER - CAPITAL FD	-	-	-	-	-	-
01-1635-7820	TRANSFER - RESERVES	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>435,133.00</u>	<u>370,415.38</u>	<u>358,751.00</u>	<u>397,083.81</u>	<u>458,630.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>(279,633.00)</u>	<u>(229,026.53)</u>	<u>(273,201.00)</u>	<u>(263,054.18)</u>	<u>(302,830.00)</u>	
<b>CAPITAL</b>							
20-1635-1830	DONATIONS	-	500.00	-	25.00	-	-
20-1635-1840	SALE OF EQUIPMENT	-	-	-	-	-	-
20-1635-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-	-
20-1635-4600	RESERVE/RESERVE FUND CONTRIBUTI	100,000.00	-	20,000.00	20,000.00	-	-
20-1635-5000	PROVINCE	-	-	-	10,702.00	-	Lighting - Retrofit
20-1635-5100	FEDERAL GRANTS	-	-	-	-	-	-
20-1635-5400	BLUEWATER POWER	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		<u>100,000.00</u>	<u>500.00</u>	<u>20,000.00</u>	<u>30,727.00</u>	<u>-</u>	

## 1635 - ALVIN COMMUNITY CENTRE

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>EXPENDITURES</b>							
20-1635-8010	FENCING	5,000.00	4,975.00	-	-	-	-
20-1635-8011	FURNITURE (TABLES, CHAIRS ETC)	-	-	11,500.00	2,070.00	10,000.00	Tables/Chairs
20-1635-8012	EQUIPMENT	-	-	3,000.00	3,675.00	-	-
20-1635-8013	LIGHTING	10,000.00	11,495.00	-	-	-	-
20-1635-8014	FURNACE/BOILER	10,000.00	-	8,000.00	7,473.00	60,000.00	Brine header for ice surface
20-1635-8015	BUILDING UPGRADES	12,000.00	14,801.64	33,000.00	28,798.96	18,000.00	Ice surface door/floor, office
20-1635-8016	AUDITORIUM UPGRADES	75,000.00	66,302.15	56,000.00	50,339.35	-	floor, awning over entrance
20-1635-8017	SECURITY/FIRE ALARM SYSTEMS	25,000.00	22,177.29	-	-	-	-
20-1635-8018	BALL DIAMOND LIGHTING	-	-	-	-	-	-
20-1635-8019	ELECTRONIC SCORE BOARD	-	-	-	-	-	-
20-1635-8020	SMALL UTILITY TRACTOR	8,000.00	7,632.00	-	-	-	-
20-1635-8021	ICE SURFACER (OLYMPIA)	-	-	-	-	-	-
20-1635-9500	TO TANGIBLE CAPITAL ASSETS	-	(122,408.00)	-	-	-	-
20-1637-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-	-
20-1637-8012	EQUIPMENT	-	-	-	-	-	-
20-1637-8041	CONCESSION BOOTH RENOVATIONS	-	-	-	-	-	-
20-1638-1830	DONATIONS	-	-	-	-	-	-
20-1638-8041	BOOTH UPGRADES	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>145,000.00</u>	<u>4,975.08</u>	<u>111,500.00</u>	<u>92,356.31</u>	<u>88,000.00</u>	
<b>NET</b>		<u>(45,000.00)</u>	<u>(4,475.08)</u>	<u>(91,500.00)</u>	<u>(61,629.31)</u>	<u>(88,000.00)</u>	

## 1637 - CONCESSION BOOTH

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1637-5570	CONCESSIONS	-	-	-	-	-	-
01-1637-5572	VENDING MACHINES	2,000.00	991.06	500.00	595.95	1,500.00	-
01-1637-5575	OTHER REVENUES	600.00	220.00	300.00	240.00	600.00	100 per month
<b>TOTAL REVENUE</b>		<u>2,600.00</u>	<u>1,211.06</u>	<u>800.00</u>	<u>835.95</u>	<u>2,100.00</u>	
<b>EXPENDITURES</b>							
01-1637-7110	SALARY/WAGES	-	-	-	-	-	-
01-1637-7116	BENEFITS - STATATORY	-	-	-	-	-	-
01-1637-7301	OFFICE SUPPLIES	-	-	-	-	-	-
01-1637-7307	ADVERTISING	-	-	-	-	-	-
01-1637-7340	BUILDING REPAIRS & MAINTENANCE	-	-	-	-	-	-
01-1637-7372	EQUIPMENT RENTAL & MTCE	-	-	-	-	-	-
01-1637-7380	BOOTH SUPPLIES	-	-	-	-	-	-
01-1637-7382	VENDING MACHINE SUPPLIES	2,000.00	962.26	500.00	1,354.71	1,500.00	-
01-1637-7398	PURCHASES FOR OTHERS	-	-	-	-	-	-
01-1637-7399	OTHER MATERIAL	-	-	-	-	-	-
01-1637-7810	TRANSFER - CAPITAL FD	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>2,000.00</u>	<u>962.26</u>	<u>500.00</u>	<u>1,354.71</u>	<u>1,500.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>600.00</u>	<u>248.80</u>	<u>300.00</u>	<u>(518.76)</u>	<u>600.00</u>	

## 1639 - INWOOD CC

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1639-1830	DONATIONS	-	-	-	-	-	-
01-1639-5240	GRANT - MUNICIPALITY	-	-	-	-	-	-
01-1639-5558	OTHER RENTALS/INCOME	500.00	-	-	-	-	-
<b>TOTAL REVENUE</b>		500.00	-	-	-	-	
<b>EXPENDITURES</b>							
01-1639-7306	UTILITIES - HYDRO	750.00	432.55	750.00	705.47	750.00	-
01-1639-7315	INSURANCE	1,356.00	1,355.15	1,505.00	1,461.62	1,680.00	Estimated 15% increase
01-1639-7399	MATERIAL	1,500.00	1,650.00	5,000.00	2,611.90	2,500.00	Grass cutting, etc.
01-1639-7401	CONTRACTS	2,500.00	-	2,500.00	-	2,000.00	General maintenance
01-1639-7810	TRANSFER TO CAPITAL FUND	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		6,106.00	3,437.70	9,755.00	4,778.99	6,930.00	
<b>NET EXPENDITURES OVER REVEUNE</b>		(5,606.00)	(3,437.70)	(9,755.00)	(4,778.99)	(6,930.00)	
<b>CAPITAL</b>							
20-1639-1831	DONATIONS - PUBLIC	-	-	-	-	-	-
20-1639-4500	REVENUE FUND CONTRIBUTION	-	-	15,000.00	-	15,000.00	ICIP grant
20-1639-4600	RESERVE/RESERVE FUND CONTRIBUTIC	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		-	-	15,000.00	-	15,000.00	
<b>EXPENDITURES</b>							
20-1639-7405	MATERIALS	-	-	15,000.00	859.50	15,000.00	Inwood Bathroom Renos
20-1639-8012	EQUIPMENT	-	-	-	3,135.79	20,000.00	Resurface basketball court
<b>TOTAL EXPENDITURES</b>		-	-	15,000.00	3,995.29	35,000.00	
<b>NET EXPENDITURES</b>		-	-	-	(3,995.29)	(20,000.00)	

## 1641 - ALVIN LIBRARY

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1641-1830	DONATIONS & OTHER REVENUE	-	500.00	-	-	-	Alvinston Library
<b>TOTAL REVENUE</b>		-	500.00	-	-	-	
<b>EXPENDITURES</b>							
01-1641-7303	PHONE/INTERNET SERVICE	-	-	-	-	-	-
01-1641-7306	UTILITIES	3,500.00	2,364.00	2,750.00	2,253.42	2,750.00	-
01-1641-7309	HEATING	1,250.00	1,012.16	1,250.00	1,236.00	1,250.00	-
01-1641-7315	INSURANCE	1,565.00	1,564.92	1,737.00	1,735.02	1,995.00	Estimated 15% increase
01-1641-7340	BUILDING REPAIRS & MAINTENANCE	1,000.00	882.79	1,000.00	1,145.18	2,500.00	includes inspection
01-1641-7399	OTHER	-	-	-	-	-	-
01-1641-7810	TRANSFER - CAPITAL FUND	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		7,315.00	5,823.87	6,737.00	6,369.62	8,495.00	
<b>NET EXPENDITURES OVER REVENUE</b>		(7,315.00)	(5,323.87)	(6,737.00)	(6,369.62)	(8,495.00)	
<b>CAPITAL</b>							
20-1641-1830	DONATIONS BUILDING FUND	-	-	-	-	-	-
20-1641-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-	-
20-1641-4600	RESERVE/RESERVE FUND CONTRIBUTIC	-	-	-	-	-	-
20-1641-8041	BUILDING IMPROVEMENTS	-	-	-	-	-	-
		-	-	-	-	-	

## 1642 - INWOOD LIBRARY

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1642-1830	DONATIONS & OTHER REVENUE	-	-	-	-	-	Inwood Library
		-	-	-	-	-	
<b>EXPENDITURES</b>							
01-1642-7303	PHONE/INTERNET SERVICE	-	-	-	-	-	-
01-1642-7306	UTILITIES	2,250.00	1,730.23	1,900.00	1,772.86	2,000.00	Electricity, Water & sewer
01-1642-7309	HEATING	750.00	594.17	750.00	478.53	750.00	-
01-1642-7315	INSURANCE	613.00	612.36	680.00	672.30	775.00	Estimated 15% increase
01-1642-7340	BUILDING REPAIRS & MAINTENANCE	1,000.00	422.81	1,000.00	351.32	2,500.00	Includes Inspection
01-1642-7399	OTHER	660.00	654.56	660.00	654.56	660.00	Sewer capital here
01-1642-7810	TRANSFER - CAPITAL FUND	-	-	-	-	-	-
<b>TOTAL OPERATING EXPENDITURES</b>		<b>5,273.00</b>	<b>4,014.13</b>	<b>4,990.00</b>	<b>3,929.57</b>	<b>6,685.00</b>	
<b>NET</b>		<b>(5,273.00)</b>	<b>(4,014.13)</b>	<b>(4,990.00)</b>	<b>(3,929.57)</b>	<b>(6,685.00)</b>	
<b>CAPITAL</b>							
20-1642-4500	REVENUE FUND CONTRIBUTION	-	-	-	-	-	-
20-1642-4600	RESERVE/RESERVE FUND CONTRIBUTION	-	-	-	-	-	-
20-1642-5100	FEDERAL CIIF GRANT	-	-	-	-	-	-
20-1642-8041	BUILDING UPGRADES	-	-	-	-	-	-
20-1642-9500	TO TANGIBLE CAPITAL ASSETS	-	-	-	-	-	-
		-	-	-	-	-	

## 1645 - CANADA DAY

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1645-5145	FEDERAL CANADA DAY	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	Assumed grant
01-1645-5245	MUNICIPAL GRANT	-	-	-	-	-	-
01-1645-5580	BOOT	2,000.00	-	2,000.00	495.00	2,000.00	Back to normal
01-1645-5581	DONATIONS	5,000.00	-	5,000.00	-	5,000.00	Back to normal
01-1645-5583	OTHER RECEIPTS	1,000.00	509.00	1,000.00	100.00	1,000.00	Back to normal
01-1645-5584	BBQ	5,000.00	-	5,000.00	5,404.87	5,000.00	Back to normal
01-1645-5585	DRAW	250.00	-	250.00	-	250.00	Back to normal
<b>TOTAL REVENUE</b>		<u>18,250.00</u>	<u>5,509.00</u>	<u>18,250.00</u>	<u>10,999.87</u>	<u>18,250.00</u>	
<b>EXPENDITURES</b>							
01-1645-7301	SUPPLIES	2,000.00	-	2,000.00	(2,852.31)	2,000.00	Back to normal
01-1645-7307	ADVERTISING	750.00	256.43	750.00	617.52	750.00	Back to normal
01-1645-7397	BBQ	5,500.00	-	5,500.00	4,611.49	5,500.00	Back to normal
01-1645-7398	FIREWORKS	6,500.00	4,562.41	6,500.00	8,448.17	6,500.00	Back to normal
01-1645-7399	OTHER	500.00	-	500.00	175.00	500.00	Back to normal
01-1645-7550	FACILITY RENTS ETC	1,500.00	-	1,500.00	-	1,500.00	Back to normal
01-1645-7551	EQUIPMENT RENTS	1,500.00	690.16	1,500.00	-	1,500.00	Back to normal
<b>TOTAL EXPENDITURES</b>		<u>18,250.00</u>	<u>5,509.00</u>	<u>18,250.00</u>	<u>10,999.87</u>	<u>18,250.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

## 1810 PLANNING &amp; ZONING

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1810-1045	FEES AND CHARGES	750.00	2,530.57	6,000.00	9,821.00	2,500.00	Misc. charges
01-1810-1046	CONSENT FEES (SEVERANCE)	3,500.00	3,100.00	3,000.00	13,757.59	3,500.00	-
01-1810-1047	ZONING FEES (MINOR VARIANCE)	3,000.00	4,050.00	3,500.00	5,650.00	3,500.00	-
<b>TOTAL REVENUE</b>		<u>7,250.00</u>	<u>9,680.57</u>	<u>12,500.00</u>	<u>29,228.59</u>	<u>9,500.00</u>	
<b>EXPENDITURES</b>							
01-1810-7101	COMMITTEE MEMBERS REMUNERATION	1,250.00	1,250.00	1,500.00	1,650.00	2,000.00	COA fees up
01-1810-7301	OFFICE SUPPLIES	-	-	-	-	-	-
01-1810-7305	POSTAGE/COURIER	-	-	-	23.71	-	-
01-1810-7307	ADVERTISING	500.00	390.66	500.00	118.05	500.00	-
01-1810-7320	ASSOCIATION FEES & MEMBERSHIPS	-	-	-	-	-	-
01-1810-7399	OTHER - SIGNAGE	-	-	-	-	-	-
01-1810-7430	PROFESSIONAL FEES	4,000.00	2,735.47	21,000.00	12,963.53	32,500.00	Official plan, etc.
01-1810-7431	CONSERVATION AUTHORITY CONSULT	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>5,750.00</u>	<u>4,376.13</u>	<u>23,000.00</u>	<u>14,755.29</u>	<u>35,000.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>1,500.00</u>	<u>5,304.44</u>	<u>(10,500.00)</u>	<u>14,473.30</u>	<u>(25,500.00)</u>	



## 1820 COMMERCIAL &amp; INDUSTRIAL

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1820-5581	DONATIONS - COMMUNITY GROUP PROJECTS	-	6,292.69	-	-	-	-
01-1820-5582	COMMUNITY GROUP FUND RAISING	2,520.00	2,580.00	2,520.00	2,860.00	2,860.00	Hanging baskets - 44 x \$65
<b>TOTAL REVENUE</b>		2,520.00	8,872.69	2,520.00	2,860.00	2,860.00	
<b>EXPENDITURES</b>							
01-1820-7306	ELECTRICITY CHARGES - SIGN	1,500.00	1,280.22	1,500.00	1,204.50	1,500.00	BEE sign
01-1820-7396	DEMOLITION - INWOOD FEED MILL	-	-	-	-	-	-
01-1820-7397	DEMOLITION - FORMER POLAND PROPERTY	-	-	-	-	-	-
01-1820-7398	BUILDING CLEANUPS	-	-	-	-	-	-
01-1820-7399	OTHER MATERIAL ETC	5,000.00	5,662.00	5,000.00	4,859.46	6,000.00	Hanging baskets/other R&M
01-1820-7610	TRANSFERS TO OTHERS	-	-	-	-	-	-
01-1820-7690	COMMUNITY IMPROVEMENT TAX INCENTIVE	1,000.00	241.95	500.00	-	500.00	This is at council's discretion
01-1820-7691	COMMUNITY IMPROVEMENT FACADE GRANT	5,000.00	4,500.00	5,000.00	-	5,000.00	This is at council's discretion
01-1820-7810	TRANSFER TO CAPITAL FUND	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		12,500.00	11,684.17	12,000.00	6,063.96	13,000.00	
<b>NET EXPENDITURES OVER REVENUE</b>		(9,980.00)	(2,811.48)	(9,480.00)	(3,203.96)	(10,140.00)	
<b>CAPITAL</b>							
<b>REVENUE</b>							
20-1820-1830	DONATIONS	-	-	-	-	-	-
20-1820-4500	CONTRIBUTION REVENUE FUND	-	-	-	-	-	-
20-1820-4600	CONT'B RESERVE/RESERVE FDS	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		-	-	-	-	-	
<b>EXPENDITURES</b>							
20-1820-7405	MATERIALS	-	3,213.26	-	-	-	-
20-1820-9500	TO TANGIBLE CAPITAL ASSETS	-	(3,213.00)	-	-	-	-
<b>TOTAL EXPENDITURES</b>		-	0.26	-	-	-	
<b>NET</b>		-	(0.26)	-	-	-	

## 1825 - POST OFFICE

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1825-4010	SALES	<u>60,000.00</u>	<u>64,764.13</u>	<u>60,000.00</u>	<u>63,088.76</u>	<u>60,000.00</u>	-
<b>TOTAL REVENUE</b>		<u>60,000.00</u>	<u>64,764.13</u>	<u>60,000.00</u>	<u>63,088.76</u>	<u>60,000.00</u>	
<b>EXPENDITURES</b>							
01-1825-6010	PURCHASES	<u>46,200.00</u>	<u>50,425.19</u>	<u>48,000.00</u>	<u>45,080.14</u>	<u>48,000.00</u>	COGS approx. 80% of sales
01-1825-6020	MATERIAL & SUPPLIES	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	-
<b>TOTAL EXPENDITURES</b>		<u>46,200.00</u>	<u>50,425.19</u>	<u>48,000.00</u>	<u>45,080.14</u>	<u>48,000.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>13,800.00</u>	<u>14,338.94</u>	<u>12,000.00</u>	<u>18,008.62</u>	<u>12,000.00</u>	

**1840 - AGRICULTURAL & REFOREST**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1840-4010	TREE PROGRAM	3,500.00	2,053.50	2,000.00	8,572.00	5,000.00	Estimate
01-1840-5001	PROV - DRAIN SUPERINTENDENT	7,500.00	12,505.84	15,000.00	16,916.54	15,000.00	Grant for 50% of costs
01-1840-5575	FEES FOR TILE DRAIN LOANS	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		<u>11,000.00</u>	<u>14,559.34</u>	<u>17,000.00</u>	<u>25,488.54</u>	<u>20,000.00</u>	
<b>EXPENDITURES</b>							
01-1840-7399	OTHER	-	-	-	-	-	-
01-1840-7102	REPRESENTATIVE REMUNERATION	600.00	-	-	-	-	-
01-1840-7110	SALARY/WAGES	-	-	-	-	-	-
01-1840-7116	BENEFITS - STATUTORY	-	-	-	-	-	-
01-1840-7320	ASSOCIATION FEES & MEMBERSHIPS	-	-	-	-	-	-
01-1840-7350	TRAVEL	200.00	-	-	-	-	-
01-1840-7395	OTHER	-	-	-	-	-	-
01-1840-7398	TREE PROGRAM	4,500.00	3,248.53	3,250.00	10,083.04	7,000.00	-
01-1840-7455	DRAINAGE SUPERINTENDENT	15,000.00	25,009.50	30,000.00	33,805.08	30,000.00	Estimate per David Moores
01-1840-7610	TRANSFERS TO OTHERS (DONATIONS)	1,000.00	250.00	1,000.00	-	1,000.00	Fair board; 4H; farm safety
01-1840-7700	RESIDENTIAL DRAINAGE	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>		<u>21,300.00</u>	<u>28,508.03</u>	<u>34,250.00</u>	<u>43,888.12</u>	<u>38,000.00</u>	
<b>NET EXPENDITURES OVER REVENUE</b>		<u>(10,300.00)</u>	<u>(13,948.69)</u>	<u>(17,250.00)</u>	<u>(18,399.58)</u>	<u>(18,000.00)</u>	

## 1841 - MUNICIPAL DRAINS

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>OPERATING</b>							
01-1841-7230	LONG TERM DEBT - INTEREST	1,250.00	432.77	-	-	-	-
01-1841-7730	LONG TERM DEBT - PRINCIPAL	-	-	-	-	-	-
		<u>1,250.00</u>	<u>432.77</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<b>CAPITAL - Construction</b>							
20-2800-4500	REVENUE FUND CONTRIBUTION	75,000.00	130,030.16	50,000.00	15,000.00	50,000.00	Estimated Drain Construction
20-2800-5000	ONTARIO GRANTS	170,000.00	114,608.79	120,000.00	35,000.00	120,000.00	Estimated Drain Construction
20-2800-5200	OTHER MUNICIPALITIES	-	4,256.93	-	-	-	Estimated Drain Construction
20-2800-5510	PREPAID SPECIAL CHARGES	355,000.00	237,334.52	250,000.00	105,000.00	250,000.00	Estimated Drain Construction
20-2800-5515	OTHER AGENCIES	-	-	-	-	-	-
<b>Total Revenue</b>		<u>600,000.00</u>	<u>486,230.40</u>	<u>420,000.00</u>	<u>155,000.00</u>	<u>420,000.00</u>	
20-2800-7305	POSTAGE & COURIER	-	-	-	-	-	-
20-2800-7307	AVERTISING	-	-	-	-	-	-
20-2800-7341	ENGINEERING	-	58,096.93	-	66,517.61	-	-
20-2800-7397	INTEREST CHARGES	-	7,636.49	-	-	-	-
20-2800-7398	ALLOWANCES	-	49,107.97	-	-	-	-
20-2800-7399	OTHER	-	150,172.63	-	-	-	-
20-2800-7401	CONTRACTOR	<u>600,000.00</u>	<u>221,216.38</u>	<u>380,000.00</u>	<u>88,482.39</u>	<u>420,000.00</u>	Estimated Drain Construction
<b>Total Expenditures</b>		<u>600,000.00</u>	<u>486,230.40</u>	<u>380,000.00</u>	<u>155,000.00</u>	<u>420,000.00</u>	
<b>Net</b>		<u>-</u>	<u>-</u>	<u>40,000.00</u>	<u>-</u>	<u>-</u>	

## 1841 - MUNICIPAL DRAINS

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>CAPITAL-Maintenance</b>							
20-2900-4500	REVENUE FUND CONTRIBUTION	35,000.00	17,409.78	25,000.00	60,000.00	25,000.00	Estimated Drain Maintenance
20-2900-5000	ONTARIO GRANTS	20,000.00	28,393.43	20,000.00	120,000.00	20,000.00	Estimated Drain Maintenance
20-2900-5200	OTHER MUNICIPALITIES	5,000.00	10,744.76	5,000.00	5,000.00	5,000.00	Estimated Drain Maintenance
20-2900-5510	PREPAID SPECIAL CHARGES	90,000.00	63,823.43	75,000.00	190,000.00	75,000.00	Estimated Drain Maintenance
20-2900-5515	OTHER AGENCIES	-	124.55	-	-	-	-
<b>Total Revenue</b>		<u>150,000.00</u>	<u>120,495.95</u>	<u>125,000.00</u>	<u>375,000.00</u>	<u>125,000.00</u>	
20-2900-7305	POSTAGE & COURIER	-	-	-	-	-	-
20-2900-7307	AVERTISING	-	-	-	-	-	-
20-2900-7341	SUPERINTENDENT	-	-	-	-	-	-
20-2900-7399	OTHER	-	(7,720.54)	-	-	-	-
20-2900-7401	MAINTENANCE EXPENDITURES	<u>150,000.00</u>	<u>128,216.49</u>	<u>125,000.00</u>	<u>375,000.00</u>	<u>125,000.00</u>	Estimated Drain Maintenance
<b>Total Expenditures</b>		<u>150,000.00</u>	<u>120,495.95</u>	<u>125,000.00</u>	<u>375,000.00</u>	<u>125,000.00</u>	
<b>Net</b>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

**1850 - TILE DRAINAGE**

<u>Account</u>	<u>Description</u>	<u>2020 Budget</u>	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2021 Projected</u>	<u>2022 Budget</u>	<u>COMMENTS</u>
<b>REVENUE</b>							
01-1850-5510	TILE DRAINS - COLLECTION ON TAX ROLL	12,000.00	8,209.23	6,000.00	6,090.99	6,000.00	Tile Drainage - interest income
01-1850-5511	TILE DRAINS - A/R BILLINGS	-	-	-	-	-	-
01-1850-5515	TILE DRAINAGE - INSPECTION FEES	-	-	-	-	-	-
<b>TOTAL REVENUE</b>		<u>12,000.00</u>	<u>8,209.23</u>	<u>6,000.00</u>	<u>6,090.99</u>	<u>6,000.00</u>	
<b>EXPENDITURES</b>							
01-1850-7210	TILE DRAIN LOAN INTEREST	12,000.00	9,891.20	6,000.00	6,090.25	6,000.00	Tile Drainage - interest expense
01-1850-7455	INSPECTION FEES	-	-	-	-	-	-
01-1850-7710	TILE DRAIN LOAN PRINCIPAL	-	65,077.61	-	16,762.74	-	-
01-1850-7799	LONG TERM DEBT PRINC REDUCTION	-	(65,077.61)	-	(16,762.00)	-	-
<b>TOTAL EXPENDITURES</b>		<u>12,000.00</u>	<u>9,891.20</u>	<u>6,000.00</u>	<u>6,090.99</u>	<u>6,000.00</u>	
<b>NET</b>		<u>-</u>	<u>(1,681.97)</u>	<u>-</u>	<u>-</u>	<u>-</u>	

**THE CORPORATION OF THE MUNICIPALITY OF  
BROOKE-ALVINSTON**

**BY-LAW NUMBER 6 of 2022**

**BEING A BY-LAW TO PROVIDE FOR A DRAINAGE WORKS IN THE  
MUNICIPALITY OF BROOKE-ALVINSTON IN THE COUNTY OF LAMBTON**

WHEREAS the requisite number of owners have petitioned the Council of the Municipality of Brooke-Alvinston in the County of Lambton in accordance with the provisions of the *Drainage Act*, requesting that the following lands and roads be drained by a drainage works known as the “Bourne Drain” in the Municipality of Brooke-Alvinston;

AND WHEREAS, the Council of the Municipality of Brooke-Alvinston in the County of Lambton has procured a report made by R. Dobbin Engineering Inc. and a copy of the report dated December 6, 2021 is attached hereto and forms part of this by-law;

AND WHEREAS the estimated cost of constructing the drainage works is \$49,636.00;

AND WHEREAS \$917.00 is the amount to be contributed by the Municipality for construction of the drainage works;

AND WHEREAS \$49,636.00 is being assessed in the Municipality of Brooke-Alvinston in the County of Lambton

AND WHEREAS the Council is of the opinion that the drainage of the area is desirable;

THEREFORE, the Council of the Municipality of Brooke-Alvinston under the *Drainage Act* enacts as follows:

1. The report dated December 6, 2021 and attached hereto is hereby adopted and the drainage works as therein indicated and set forth is hereby authorized, and shall be completed in accordance therewith.
2. (1) The Corporation of the Municipality of Brooke-Alvinston may borrow on the credit of the Corporation the amount of \$49,636.00, being the amount necessary for construction of the drainage works.  
  
 (2) The Corporation may issue debentures for the amount borrowed less the total amount of,
  - (a) grants received under section 85 of the Act;
  - (b) commuted payments made in respect of lands and roads assessed within the municipality;
  - (c) money paid under subsection 61(3) of the Act; and
  - (d) money assessed in and payable by another municipality,
 and such debenture shall be made payable within five years from the date of the debenture and shall bear interest at a rate not higher than the rate charged by the Ontario Government for tile loans on the date of sale of such debentures.
3. A special equal annual rate sufficient to redeem the principal and interest on the debentures shall be levied upon the lands and roads as set forth in the report to be collected in the same manner and at the same time as other taxes are collected in each year for five years after the passing of this by-law.
4. For paying the amount of \$49,636.00 being the amount assessed upon the lands and roads belonging to or controlled by the Municipality, a special rate sufficient to pay the amount assessed plus interest thereon shall be levied upon the whole rateable property in the Municipality of Brooke-Alvinston in each year for one year after the passing of this by-law to be

collected in the same manner and at the same time as other taxes are collected.

- 5. All assessments of \$1,000.00 or less are payable in the first year in which the assessment is imposed.
- 6. This by-law comes into force on the passing thereof and may be cited as “Bourne Drain By-law”.

FIRST READING \_\_\_\_\_, 2022

SECOND READING \_\_\_\_\_, 2022

Provisionally adopted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
David Ferguson, Mayor

\_\_\_\_\_  
Janet Denkers, Clerk-Administrator

THIRD READING \_\_\_\_\_, 2022.

Enacted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
David Ferguson, Mayor

\_\_\_\_\_  
Janet Denkers, Clerk-Administrator



**THE CORPORATION OF THE MUNICIPALITY OF  
BROOKE-ALVINSTON**

**BY-LAW NUMBER 7 of 2022**

**BEING A BY-LAW TO PROVIDE FOR A DRAINAGE WORKS IN THE  
MUNICIPALITY OF BROOKE-ALVINSTON IN THE COUNTY OF LAMBTON**

WHEREAS the requisite number of owners have petitioned the Council of the Municipality of Brooke-Alvinston in the County of Lambton in accordance with the provisions of the *Drainage Act*, requesting that the following lands and roads be drained by a drainage works known as the “Johnson Drain” in the Municipality of Brooke-Alvinston;

AND WHEREAS, the Council of the Municipality of Brooke-Alvinston in the County of Lambton has procured a report made by R. Dobbin Engineering Inc. and a copy of the report dated December 6, 2021 is attached hereto and forms part of this by-law;

AND WHEREAS the estimated cost of constructing the drainage works is \$52,891.00;

AND WHEREAS \$572.00 is the amount to be contributed by the Municipality for construction of the drainage works;

AND WHEREAS \$52,891.00 is being assessed in the Municipality of Brooke-Alvinston in the County of Lambton

AND WHEREAS the Council is of the opinion that the drainage of the area is desirable;

THEREFORE, the Council of the Municipality of Brooke-Alvinston under the *Drainage Act* enacts as follows:

1. The report dated December 6, 2021 and attached hereto is hereby adopted and the drainage works as therein indicated and set forth is hereby authorized, and shall be completed in accordance therewith.
2. (1) The Corporation of the Municipality of Brooke-Alvinston may borrow on the credit of the Corporation the amount of \$52,891.00, being the amount necessary for construction of the drainage works.  
  
(2) The Corporation may issue debentures for the amount borrowed less the total amount of,
  - (a) grants received under section 85 of the Act;
  - (b) commuted payments made in respect of lands and roads assessed within the municipality;
  - (c) money paid under subsection 61(3) of the Act; and
  - (d) money assessed in and payable by another municipality,
 and such debenture shall be made payable within five years from the date of the debenture and shall bear interest at a rate not higher than the rate charged by the Ontario Government for tile loans on the date of sale of such debentures.
3. A special equal annual rate sufficient to redeem the principal and interest on the debentures shall be levied upon the lands and roads as set forth in the report to be collected in the same manner and at the same time as other taxes are collected in each year for five years after the passing of this by-law.
4. For paying the amount of \$52,891.00 being the amount assessed upon the lands and roads belonging to or controlled by the Municipality, a special rate sufficient to pay the amount assessed plus interest thereon shall be levied upon the whole rateable property in the Municipality of Brooke-Alvinston in each year for one year after the passing of this by-law to be

collected in the same manner and at the same time as other taxes are collected.

- 5. All assessments of \$1,000.00 or less are payable in the first year in which the assessment is imposed.
- 6. This by-law comes into force on the passing thereof and may be cited as “Johnson Drain By-law”.

FIRST READING \_\_\_\_\_, 2022

SECOND READING \_\_\_\_\_, 2022

Provisionally adopted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
David Ferguson, Mayor

\_\_\_\_\_  
Janet Denkers, Clerk-Administrator

THIRD READING \_\_\_\_\_, 2022.

Enacted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
David Ferguson, Mayor

\_\_\_\_\_  
Janet Denkers, Clerk-Administrator

**THE CORPORATION OF THE MUNICIPALITY OF  
BROOKE-ALVINSTON**

**BY-LAW NUMBER 8 of 2022**

**BEING A BY-LAW TO PROVIDE FOR A DRAINAGE WORKS IN THE  
MUNICIPALITY OF BROOKE-ALVINSTON IN THE COUNTY OF LAMBTON**

WHEREAS the requisite number of owners have petitioned the Council of the Municipality of Brooke-Alvinston in the County of Lambton in accordance with the provisions of the *Drainage Act*, requesting that the following lands and roads be drained by a drainage works known as the “Johnson-Symington Drain” in the Municipality of Brooke-Alvinston;

AND WHEREAS, the Council of the Municipality of Brooke-Alvinston in the County of Lambton has procured a report made by R. Dobbin Engineering Inc. and a copy of the report dated November 30, 2021 is attached hereto and forms part of this by-law;

AND WHEREAS the estimated cost of constructing the drainage works is \$47,700.00;

AND WHEREAS \$0.00 is the amount to be contributed by the Municipality for construction of the drainage works;

AND WHEREAS \$47,700.00 is being assessed in the Municipality of Brooke-Alvinston in the County of Lambton

AND WHEREAS the Council is of the opinion that the drainage of the area is desirable;

THEREFORE, the Council of the Municipality of Brooke-Alvinston under the *Drainage Act* enacts as follows:

1. The report dated November 30, 2021 and attached hereto is hereby adopted and the drainage works as therein indicated and set forth is hereby authorized, and shall be completed in accordance therewith.
2. (1) The Corporation of the Municipality of Brooke-Alvinston may borrow on the credit of the Corporation the amount of \$52,891.00, being the amount necessary for construction of the drainage works.  
  
 (2) The Corporation may issue debentures for the amount borrowed less the total amount of,
  - (a) grants received under section 85 of the Act;
  - (b) commuted payments made in respect of lands and roads assessed within the municipality;
  - (c) money paid under subsection 61(3) of the Act; and
  - (d) money assessed in and payable by another municipality,
 and such debenture shall be made payable within five years from the date of the debenture and shall bear interest at a rate not higher than the rate charged by the Ontario Government for tile loans on the date of sale of such debentures.
3. A special equal annual rate sufficient to redeem the principal and interest on the debentures shall be levied upon the lands and roads as set forth in the report to be collected in the same manner and at the same time as other taxes are collected in each year for five years after the passing of this by-law.
4. For paying the amount of \$52,891.00 being the amount assessed upon the lands and roads belonging to or controlled by the Municipality, a special rate sufficient to pay the amount assessed plus interest thereon shall be levied upon the whole rateable property in the Municipality of Brooke-Alvinston in each year for one year after the passing of this by-law to be

collected in the same manner and at the same time as other taxes are collected.

- 5. All assessments of \$1,000.00 or less are payable in the first year in which the assessment is imposed.
- 6. This by-law comes into force on the passing thereof and may be cited as “Johnson-Symington Drain By-law”.

FIRST READING \_\_\_\_\_, 2022

SECOND READING \_\_\_\_\_, 2022

Provisionally adopted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
David Ferguson, Mayor

\_\_\_\_\_  
Janet Denkers, Clerk-Administrator

THIRD READING \_\_\_\_\_, 2022.

Enacted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

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David Ferguson, Mayor

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Janet Denkers, Clerk-Administrator

**THE CORPORATION OF THE MUNICIPALITY OF  
BROOKE-ALVINSTON**

**BY-LAW NUMBER 9 of 2022**

**BEING A BY-LAW TO PROVIDE FOR A DRAINAGE WORKS IN THE  
MUNICIPALITY OF BROOKE-ALVINSTON IN THE COUNTY OF LAMBTON**

WHEREAS the requisite number of owners have petitioned the Council of the Municipality of Brooke-Alvinston in the County of Lambton in accordance with the provisions of the *Drainage Act*, requesting that the following lands and roads be drained by a drainage works known as the “Steadman Drain” in the Municipality of Brooke-Alvinston;

AND WHEREAS, the Council of the Municipality of Brooke-Alvinston in the County of Lambton has procured a report made by R. Dobbin Engineering Inc. and a copy of the report dated November 15, 2021 is attached hereto and forms part of this by-law;

AND WHEREAS the estimated cost of constructing the drainage works is \$227,104.00;

AND WHEREAS \$0.00 is the amount to be contributed by the Municipality for construction of the drainage works;

AND WHEREAS \$227,104.00 is being assessed in the Municipality of Brooke-Alvinston in the County of Lambton

AND WHEREAS the Council is of the opinion that the drainage of the area is desirable;

THEREFORE, the Council of the Municipality of Brooke-Alvinston under the *Drainage Act* enacts as follows:

1. The report dated November 15, 2021 and attached hereto is hereby adopted and the drainage works as therein indicated and set forth is hereby authorized, and shall be completed in accordance therewith.
2. (1) The Corporation of the Municipality of Brooke-Alvinston may borrow on the credit of the Corporation the amount of \$227,104.00, being the amount necessary for construction of the drainage works.  
  
 (2) The Corporation may issue debentures for the amount borrowed less the total amount of,
  - (a) grants received under section 85 of the Act;
  - (b) commuted payments made in respect of lands and roads assessed within the municipality;
  - (c) money paid under subsection 61(3) of the Act; and
  - (d) money assessed in and payable by another municipality,
 and such debenture shall be made payable within five years from the date of the debenture and shall bear interest at a rate not higher than the rate charged by the Ontario Government for tile loans on the date of sale of such debentures.
3. A special equal annual rate sufficient to redeem the principal and interest on the debentures shall be levied upon the lands and roads as set forth in the report to be collected in the same manner and at the same time as other taxes are collected in each year for five years after the passing of this by-law.
4. For paying the amount of \$227,104.00 being the amount assessed upon the lands and roads belonging to or controlled by the Municipality, a special rate sufficient to pay the amount assessed plus interest thereon shall be levied upon the whole rateable property in the Municipality of Brooke-Alvinston in each year for one year after the passing of this by-law to be

collected in the same manner and at the same time as other taxes are collected.

- 5. All assessments of \$1,000.00 or less are payable in the first year in which the assessment is imposed.
- 6. This by-law comes into force on the passing thereof and may be cited as “Steadman Drain By-law”.

FIRST READING \_\_\_\_\_, 2022

SECOND READING \_\_\_\_\_, 2022

Provisionally adopted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
David Ferguson, Mayor

\_\_\_\_\_  
Janet Denkers, Clerk-Administrator

THIRD READING \_\_\_\_\_, 2022.

Enacted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
David Ferguson, Mayor

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Janet Denkers, Clerk-Administrator