

Township of Woolwich, and the Region of Waterloo



KITCHENER LOCATION
132 Queen St. S. Unit 4
Kitchener, ON N2G 1V9
P: 519-725-8093

[illegible]

AS CONSTRUCTED SERVICES	COMPLETION	No.	REVISIONS	D/M/Y	BY	CONSULTANT
	DESIGN FZ/RS	1	FOR DRAFT PLAN APPROVAL	17/04/25	FZ	 STRIK BALDINELLI MONIZ PLANNING • CIVIL • STRUCTURAL • MECHANICAL • ELECTRICAL 1599 Adelaide St. N, Unit 301, London, Ontario, N5X 4E8 Tel: (519) 471-6667 Fax: (519) 471-0034 Email: sbm@sbmiltid.ca
	DRAWN FZ	2	FOR DRAFT PLAN APPROVAL, SUBMISSION 2	13/03/26	FZ	
	CHECKED BH					
	APPROVED BH					
	DATE 17/03/2026					
	CAD 23-2603					



**PRELIMINARY
NOT FOR
CONSTRUCTION**

1000525725 ONTARIO INC.
 200-260 KING ST. W., KITCHENER, ON,
 N2G 1B6

E: bernienimer@outlook.com

SCALE

TITLE

STORM SEWER DESIGN SHEET WEST

ELMIRA INDUSTRIAL SUBDIVISION

1665 SCOTCH LINE ROAD
ELMIRA, ONTARIO

PROJECT No.

SBM-23-2603

SHEET No.

4.3

PLAN FILE No.

—

S:\2023 Jobs\SBM-23-2603 1000525725 Ontario Inc. - 1665 Scotch Line Road, Elmira\03 Production Drawings\SBM-23-2603 1000525725 Ontario Inc. - 1665 Scotch Line Road, Elmira - Sanitary.mxd.dwg



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MONIZ

PLANNING • CIVIL • STRUCTURAL • MECHANICAL • ELECTRICAL

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Sanitary Sewer Design Sheet – ELMIRA INDUSTRIAL SUBDIVISION
Township of Woolwich, and the Region of Waterloo

Industrial Design Criteria*:
Sewage Infiltration*:
Industrial Peaking Factor*:

Five Year Average Per Capita Flow**:

Uncertainty Factor:

0.4
0.25
Minimum: 2
Maximum: 4
0.3321
332.1
1.1

L/s/ha
L/s/ha

m³/c/d
L/c/d

Date: March 10, 2026
Job Number: SBM-23-2603
Client: 1000525725 Ontario Inc.
Project: Industrial Subdivision
Designed By: FZ/RS
Reviewed By: BH
Project File No.: SBM-23-2603

Location				Area		Industrial Sewage Flows				Sewer design													
Area No.	Street Name	From MH	To MH	Delta Hectare	Total Hectare	Peaking Factor	Infiltr. L/S	Sewage L/S	Total L/S	n	Pipe Slope %	Calc'd Dia. mm	Dia. mm	Capacity L/S	Velocity m/s	Length m	Fall in Sewer	Headloss	Drop in U.S. MH	U.S. Invert	D.S. Invert	d/D < 0.7	Percent Full
A202	Street A	CAP2	SAMH14	4.15	4.15	2.00	1.04	3.65	4.69	0.013	0.60%	106.13	200	25.42	0.81	17.4	0.10			349.172	349.068	0.28	18.4%
A314	Street A	SAMH14	SAMH13	0.24	4.39	2.00	0.06	0.00	4.75	0.013	1.00%	96.90	200	32.82	1.04	69.5	0.70		0.06	349.008	348.313	0.24	14.5%
A203	Street A	CAP3	SAMH13	2.50	2.50	2.00	0.63	2.20	2.83	0.013	0.50%	90.82	200	23.21	0.74	17.5	0.09			348.430	348.343	0.22	12.2%
A313	Street A	SAMH13	SAMH12	0.32	7.21	2.00	0.08	0.00	7.65	0.013	0.50%	131.98	250	42.07	0.86	90.0	0.45		0.03	348.283	347.833	0.28	18.2%
A312	Street A	SAMH12	SAMH11	0.32	7.53	2.00	0.08	0.00	7.73	0.013	0.50%	132.49	250	42.07	0.86	90.0	0.45		0.03	347.803	347.353	0.28	18.4%
A204	Street A	CAP4	SAMH11	3.93	3.93	2.00	0.98	3.46	4.44	0.013	4.00%	72.86	250	119.01	2.42	17.5	0.70		0.03	348.600	347.900	0.12	3.7%
A311	Street A	SAMH11	SAMH10	0.31	11.77	2.00	0.08	0.00	12.25	0.013	0.50%	157.44	250	42.07	0.86	90.0	0.45		0.03	347.323	346.873	0.36	29.1%
A310	Street A	SAMH10	SAMH9	0.31	12.08	2.00	0.08	0.00	12.33	0.013	0.50%	157.81	250	42.07	0.86	90.0	0.45		0.03	346.843	346.393	0.36	29.3%
A201	Street A	CAP1	SAMH9	10.32	10.32	2.00	2.58	9.08	11.66	0.013	6.00%	96.99	250	145.75	2.97	17.5	1.05		0.03	347.950	346.900	0.18	8.0%
A309	Street B	SAMH9	SAMH8	0.18	22.58	2.00	0.05	0.00	24.04	0.013	0.50%	202.70	250	42.07	0.86	90.0	0.45		0.06	346.333	345.883	0.54	57.1%
A205	Street B	CAP5	SAMH8	4.18	4.18	2.00	1.05	3.68	4.72	0.013	6.00%	69.11	200	80.39	2.56	11.5	0.69		0.03	347.090	346.400	0.16	5.9%
A308	Street B	SAMH8	SAMH7	0.21	26.97	2.00	0.05	0.00	28.81	0.013	0.50%	216.96	250	42.07	0.86	90.0	0.45		0.03	345.853	345.403	0.60	68.5%
A307	Street B	SAMH7	SAMH6	0.21	27.18	2.00	0.05	0.00	28.87	0.013	0.50%	217.10	250	42.07	0.86	90.0	0.45		0.03	345.373	344.923	0.60	68.6%
A207	Street B	CAP5	SAMH6	3.92	3.92	2.00	0.98	3.45	4.43	0.013	6.00%	67.46	200	80.39	2.56	11.5	0.69		0.03	346.140	345.450	0.14	5.5%
A306	Street B	SAMH6	SAMH5	0.08	31.18	2.00	0.02	0.00	33.32	0.013	0.50%	229.10	250	42.07	0.86	44.4	0.22		0.03	344.893	344.671	0.68	79.2%
EX02	Street A	EXT. CAP	FU.SAMH	3.52	3.52	2.00	0.88	3.10	3.98	0.013	0.60%	99.78	200	25.42	0.81	17.5	0.11			350.856	350.751	0.26	15.6%
	Street B	FU.SAMH	SAMH19	0.00	3.52	2.00	0.00	0.00	3.98	0.013	1.00%	90.67	200	32.82	1.04	40.1	0.40		0.06	350.691	350.290	0.22	12.1%
A319	Street A	SAMH19	SAMH18	0.14	3.66	2.00	0.04	0.00	4.01	0.013	0.50%	103.59	250	42.07	0.86	41.2	0.21		0.03	350.260	350.054	0.20	9.5%
A318	Street A	SAMH18	SAMH17	0.29	3.95	2.00	0.07	0.00	4.09	0.013	1.00%	91.58	250	59.50	1.21	82.4	0.82		0.03	350.024	349.200	0.16	6.9%
A317	Street A	SAMH17	SAMH16	0.31	4.26	2.00	0.08	0.00	4.16	0.013	1.00%	92.22	250	59.50	1.21	90.0	0.90		0.03	349.166	348.266	0.16	7.0%
A208	Street A	CAP8	SAMH16	3.76	3.76	2.00	0.94	3.31	4.25	0.013	1.00%	92.94	250	59.50	1.21	17.5	0.18			348.475	348.300	0.18	7.1%
A316	Street A	SAMH16	SAMH15	0.31	8.33	2.00	0.08	0.00	8.49	0.013	1.00%	120.48	250	59.50	1.21	90.0	0.90		0.03	348.236	347.336	0.24	14.3%
A315	Street A	SAMH15	SAMH5	0.31	8.64	2.00	0.08	0.00	8.57	0.013	2.50%	101.81	250	94.08	1.92	90.0	2.25		0.03	347.306	345.055	0.20	9.1%
A305	Street A	SAMH5	SAMH4	0.11	39.93	2.00	0.03	0.00	41.91	0.013	0.50%	249.69	300	68.42	0.97	32.1	0.16		0.06	344.607	344.446	0.56	61.3%
A206	Street A	CAP8	SAMH4	4.19	4.19	2.00	1.05	3.69	4.73	0.013	6.00%	69.17	200	80.39	2.56	17.5	1.05			346.035	344.985	0.16	5.9%
A304	Street A	SAMH4	SAMH3	0.32	44.44	2.00	0.08	0.00	46.72	0.013	0.50%	260.08	300	68.42	0.97	90.0	0.45		0.03	344.416	343.966	0.60	68.3%
A303	Street A	SAMH3	SAMH2	0.31	44.75	2.00	0.08	0.00	46.80	0.013	0.50%	260.24	300	68.42	0.97	90.0	0.45		0.03	343.936	343.486	0.60	68.4%
A302	Street A	SAMH2	SAMH2	0.29	45.04	2.00	0.07	0.00	46.87	0.013	0.50%	260.39	300	68.42	0.97	90.0	0.45		0.03	343.456	343.006	0.50	50.0%
EX01	Street A	CAP11	SAMH0	27.60	27.60	2.00	6.90	24.29	31.19	0.013	0.50%	223.50	300	68.42	0.97	5.1	0.03			343.172	343.147	0.46	45.6%
A301	Street A	SAMH0	SAMH1	0.07	27.67	2.00	0.02	0.00	31.21	0.013	0.50%	223.54	300	68.42	0.97	22.3	0.11		0.03	343.119	343.007	0.46	45.6%
A305	Street A	SAMH1	PUMP STATION	0.11	72.82	2.00	0.03	0.00	78.11	0.013	0.50%	315.35	375	124.05	1.12	31.0	0.16		0.06	342.946	342.791	0.58	63.0%
FORCEMAIN CALCULATION TO BE PROVIDED SEPARATELY																							

* As per the DGSSMS, "Design Guidelines and Supplemental Specifications for Municipal Services" (2024)
** As per the Region of Waterloo's "Water and Wastewater Monitoring Report" (2024)

AS CONSTRUCTED SERVICES

COMPLETION

DESIGN FZ/RS
DRAWN FZ
CHECKED BH
APPROVED BH
DATE 10/03/2026
CAD 23-2603

No.

1
2

REVISIONS

FOR DRAFT PLAN APPROVAL
FOR DRAFT PLAN APPROVAL, SUBMISSION 2

D/M/Y

17/04/25
13/03/26

BY

FZ
FZ

CONSULTANT



STRIK
BALDINELLI
MONIZ

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ENGINEER'S STAMP

LICENSED PROFESSIONAL ENGINEER
B. R. HYLAND
100223591
March 13, 2026
SBM-23-2603
PROVINCE OF ONTARIO

PRELIMINARY
NOT FOR CONSTRUCTION

CLIENT

1000525725 ONTARIO INC.
200-260 KING ST. W., KITCHENER, ON,
N2G 1B6

E: bernienimer@outlook.com

SCALE

TITLE

SANITARY DESIGN SHEET

ELMIRA INDUSTRIAL SUBDIVISION

1665 SCOTCH LINE ROAD
ELMIRA, ONTARIO

PROJECT No.

SBM-23-2603

SHEET No.

4.5

PLAN FILE No.

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