

Copia Developments c/o Perry Sempecos
525 McGerrell Place
London, Ontario, N6G 5L3

February 21, 2019
SBM-19-0166

Attn: Perry Sempecos

**Re: Sanitary Capacity Analysis
Proposed Residential Development
1470-1474 Highbury Ave North, London, Ontario**

1. INTRODUCTION

This Sanitary Capacity Analysis (Analysis) has been prepared by Strik, Baldinelli, Moniz Ltd. (SBM) for Copia Developments to address the sanitary servicing feasibility for the proposed high density residential development located at 1470-1474 Highbury Ave N., London, Ontario. Two (2) 18-storey apartment buildings are proposed for the site with a total of 400 units. The total site has an area of approximately 1.45 ha and is located on the east side of Highbury Ave N.

The site abuts urban reserve lands on its north and south sides, open space on its east side, and the Highbury Ave N. Right-Of-Way (R.O.W.) on its west side. Single-family residential lands are located on the opposite side of Highbury Ave N.

This Analysis is to determine the adequacy of the existing City of London (City) sanitary sewer in support of a Zoning By-Law Amendment (ZBA) application for the proposed redevelopment.

2. SANITARY SERVICING

As indicated on City Record Drawing 11427, there is an existing 250mm sanitary sewer fronting the site in the Highbury Ave N. R.O.W. The front portion of the site (± 0.41 ha) is located in Areas 3a and 3b, and was allocated a population density of 60 pph (25 people). The rest of the site (± 1.043 ha) is located in Areas 6 and 7 and was allocated a population density of 158 pph (185 people).

The proposed flows from the subject property are shown on Table 1: Site Sanitary Design Sheet, appended to this Analysis. The proposed development will have a total of 400 units. Using a population density of 1.6 people/unit as per the Design Specifications and Requirements Manual (DS&RM) results in a population of 640 (increase of 451). Using a flow of 230 L/capita/day results in an anticipated peak flow of 7.34 L/s for the site. When combined with infiltration, this results in a total peak flow of 7.5 L/s. A 150mm diameter sanitary PDC at a slope of 1.0% (minimum per DS&RM) has sufficient capacity to convey these proposed flows.

The flows from the increased population (451 people) from the site is proposed to flow to the existing 250mm sanitary sewer in the Highbury Ave N. R.O.W. As shown on Table 2: Sanitary Sewer Capacity Analysis, appended to this Analysis, the existing sanitary sewer has capacity for the increased flows.

3. SUMMARY

Based on the above, the existing City sanitary sewer appears to have sufficient capacity to accommodate the proposed development of the 1.45 ha subject site.

4. LIMITATIONS

This Analysis was prepared by Strik, Baldinelli, Moniz Ltd. for Copia Developments (Owner) and the City of London. Use of this report by any third party, or any reliance upon its findings, is solely the responsibility of that party. Strik, Baldinelli, Moniz Ltd. accepts no responsibility for damages, if any, suffered by a third party as a result of decisions made or actions undertaken as a result of this report. Third party use of this report, without the express written consent of the Consultant, denies any claims, whether in contract, tort, and/or any other cause of action in law, against the Consultant.

All findings and conclusions presented in this Analysis are based on site conditions as they appeared during the period of the investigation. This report is not intended to be exhaustive in scope, or to imply a risk-free development. It should be recognized that the passage of time may alter the opinions, conclusions, and recommendations provided herein.

The design was limited to the documents referenced herein and SBM Ltd. accepts no responsibility for the accuracy of the information provided by others. All designs and recommendations presented in this Analysis are based on the information available at the time of the review.

This document is deemed to be the intellectual property of Strik, Baldinelli, Moniz Ltd. in accordance with Canadian copyright law.

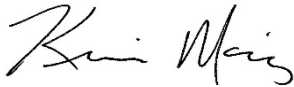
5. CLOSURE

We trust this Analysis meets your satisfaction. Should you have any questions or require further information, please do not hesitate to contact us.

Respectfully submitted,

Strik, Baldinelli, Moniz Ltd.

Civil • Structural • Mechanical • Electrical



Kevin Moniz, P.Eng.
Principal



Ben Hyland, EIT
Engineer in Training

Encl: Site Sanitary Design Sheet
Sanitary Sewer Capacity Analysis
Concept Plan
City As-Built Drawing 11427

Residential Population Densities

Area Basis

Low Density (Single Family/Semi-Detached)	= 30 Units/hectare @ 3 people/unit
Medium Density (Multi-Family/Townhouse)	= 75 Units/hectare @ 2.4 people/unit
High Density (Apartment Buildings)	= 150-300 Units/hectare @ 1.6 people/unit
Commercial/Institution	= 100 people/ha
Elementary School	= 600 people
Secondary School	= 1500 People

Design Criteria (Litres/capita/day) 230
Sewage Infiltration (Litres/hectare/day) 8640
Harmon Formula (Peaking Factor)
 $M = (1 + 14/(4+P^{0.5}))$
Uncertain Development Factor of 1.1 applied to sewage peak flow

Date: February 22, 2019
Job Number: SBM-19-0166
Client: Copia
Project: 1470-1474 Highbury Ave N
Designed By: CO
Reviewed By: BH/KM
Project File No.: SBM-19-0166

Table 1: Site Sanitary Design Sheet

Location				Area		Sewage Flows						Sewer design									
Area No.	Street Name	From MH	To MH	Delta Hectare	Total Hectare	People Per Hectare	People Per Lot or Unit	No. of Lots, units or ha	Delta Pop.	Total Pop.	Harmon Peaking Factor	Infil L/S	Sewage L/S	Total L/S	n	Pipe Slope %	Calc'd Dia. mm	Dia. mm	Capacity L/S	Velocity m/s	
Existing Conditions																					
1470-1474 Highbury Ave N		Area 3a & 3b	Main	0.41	0.41	60			25	25	4.37	0.041	0.31	0.4							
		Area 6 & 7	Main	1.043	1.453	158			165	189	4.16	0.104	2.31	2.4							
Proposed Conditions																					
1470-1474 Highbury Ave N		Site	Main	1.453	1.453		1.6	400	640	640	3.92	0.145	7.34	7.5	0.013	1.00%	114.93	150	15.2	0.86	
								Population Increase		451											

*Refer to architectural site plan for site area and number of units proposed.

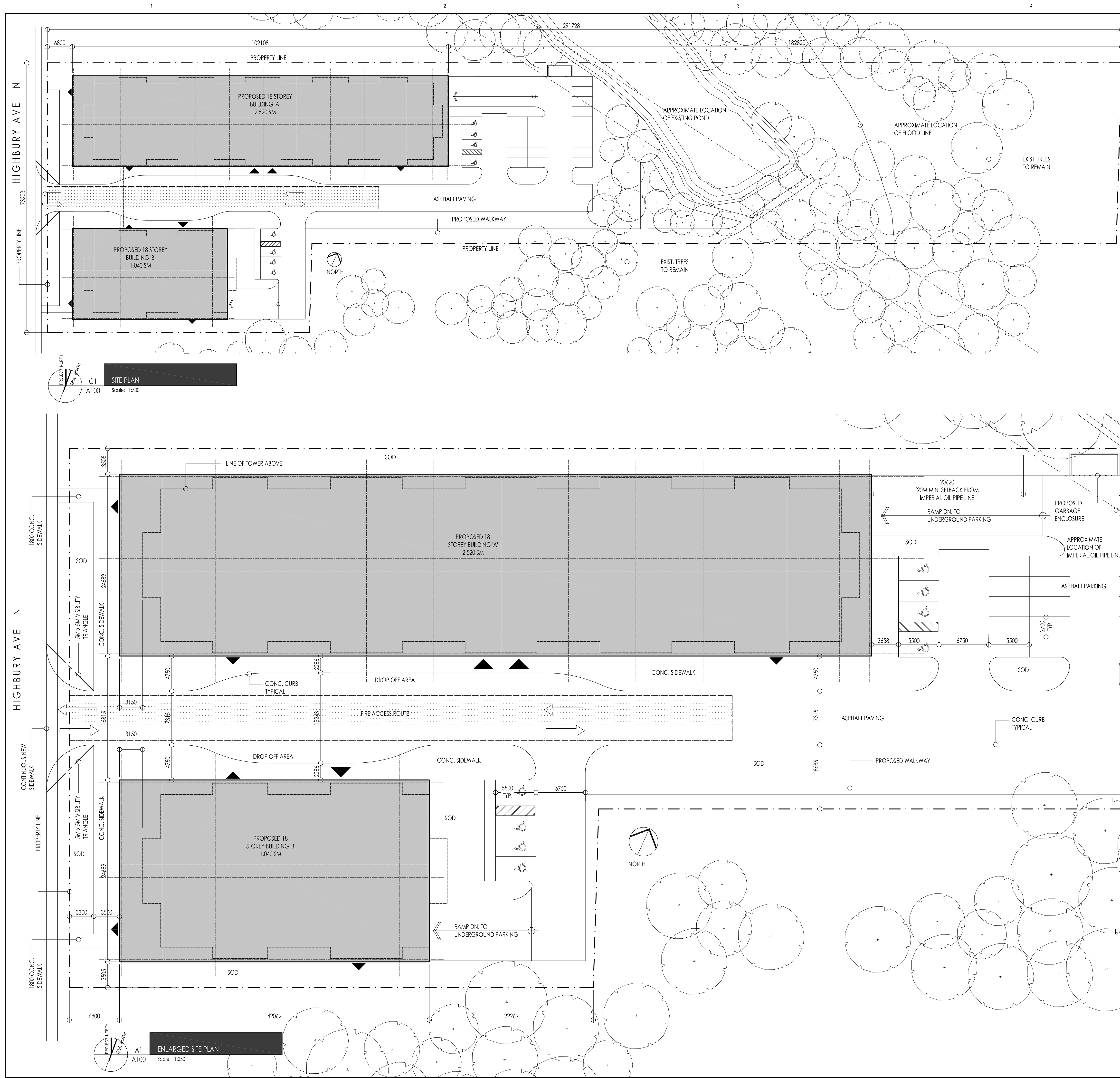
*Population density of 60 pph and 158 pph (existing conditions) as per City Record Drawing 11427, Sanitary Sewer Drainage Plan, Highbury Avenue Reconstruction by DS-Lea Associates Ltd. dated February 1991.

Table 2: Sanitary Sewer Capacity Analysis

Location				Area		Sewage Flows						Sewer design						Profile Design								
Area No.	Street Name	From MH	To MH	Delta Hectare	Total Hectare	People Per Hectare	People Per Lot or Unit	No. of Lots, units or ha	Delta Pop.	Total Pop.	Harmon Peaking Factor	Infil 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	Drop in U.S. MH	U.S. Invert	D.S. Invert	
1	HIGHBURY AVE.	MH6	MH5	3	3	60			180	180	4.16	0.300	2.19	2.5	0.013	0.28%	96.64	250	31.5	0.64	99.0	0.278	-	243.406	243.128	
2	KILALLY RD	STUB	MH5	2.73	5.73	60			164	344	4.05	0.273	4.08	4.4	0.013	0.30%	117.53	250	32.6	0.66	22	0.066		243.201	243.135	
3a	HIGHBURY AVE	MH5	MH4	0.68	6.41	60			41	385	4.03	0.068	4.54	4.6	0.013	0.32%	118.62	250	33.7	0.69	89.5	0.285	0.001	243.127	242.842	
1470-1474 Highbury Ave N - Increased Population																										
6				4.66	11.07	158			736	1571	3.66	0.466	16.86	17.3												
3b	HIGHBURY AVE	MH4	MH3	0.68	11.74	60			41	1612	3.66	0.068	17.26	17.3	0.013	0.32%	194.96	250	33.7	0.69	87.8	0.281	0.025	242.817	242.536	
3c	HIGHBURY AVE	MH3	MH2	0.68	12.42	60			41	1653	3.65	0.068	17.66	17.7	0.013	0.29%	200.29	250	32.0	0.65	88.5	0.261	0.009	242.527	242.266	
3d	HIGHBURY AVE	MH2	MH1	0.68	13.09	60			41	1694	3.64	0.068	18.06	18.1	0.013	0.28%	203.29	250	31.5	0.64	92.6	0.258	0.048	242.218	241.960	
		STUB	MH11	2.81	2.81	158			444	444	4.00	0.281	5.20	5.5	0.013	0.92%	103.86	200	31.5	1.00	22	0.202		256.919	256.717	
5	HIGHBURY AVE	MH11	MH10	0.17	2.98				0	444	4.00	0.298	5.20	5.5	0.013	5.14%	75.31	200	74.4	2.37	38	1.955	0.104	256.613	254.658	
4	HIGHBURY AVE	MH10	MH9	0.30	3.28				0	444	4.00	0.328	5.20	5.5	0.013	4.98%	75.92	200	73.2	2.33	99.75	4.967	0.000	254.658	249.691	
	HIGHBURY AVE	MH9	MH8	0.30	3.58				0	444	4.00	0.358	5.20	5.6	0.013	4.67%	76.99	200	70.9	2.26	85	3.967	0.013	249.678	245.711	
	HIGHBURY AVE	MH8	MH7	0.30	3.88				0	444	4.00	0.388	5.20	5.6	0.013	3.40%	81.88	200	60.5	1.93	75.8	2.575	0.360	245.351	242.776	
	HIGHBURY AVE	MH7	MH1	0.10	3.98				0	444	4.00	0.398	5.20	5.6	0.013	0.33%	126.88	250	34.2	0.70	70	0.231	0.590	242.186	241.955	
7	HIGHBURY AVE	THE EAST	MH1	14.94	14.94	158			2361	2361																
		MH1	OUTLET	0	32.01				0	4498	3.29	3.201	43.30	46.5	0.013	0.19%	311.26	375	76.5	0.69	22	0.042	0.120	241.835	241.793	

*This table is based on the City Record Drawing 11427, Sanitary Sewer Drainage Plan, Highbury Avenue Reconstruction by DS-Lea Associates Ltd. dated February 1991.

*The sanitary design sheet used a sewage design criteria of 0.004 L/s/cap (345.6 L/cap/day) and infiltration rate of 0.117 L/s/ha (10,108.8 L/ha/day). These values have been revised to 230 L/cap/day and 8640 L/ha/day respectively as per the 2018 City of London DS&RM



Firm Name:	MATTER ARCHITECTURAL STUDIO INC. 120 WELLINGTON STREET, SUITE 102 LONDON, ONTARIO, N6B 2K6	Key Plan:																																																								
Certificate of Practice Number:	5472																																																									
Name of Project:	HIGHBURY AVE RESIDENTIAL DEVELOPMENT																																																									
Location:	1470-1474 HIGHBURY AVE, LONDON, ONTARIO																																																									
ITEM	Ontario 2012 Building Code Data Matrix, Part 3 or 9	OBC Reference	References are to Division B unless noted																																																							
1. Project Description	<input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of Use	<input type="checkbox"/> Part 11 <input checked="" type="checkbox"/> Part 3 <input type="checkbox"/> Part 9	11.1 to 11.5 1.1.2, [A] 1.1.2, [A] 9.10.1.3.																																																							
2. Major Occupancy(s)	Group 'C' - RESIDENTIAL OCCUPANCY	3.1.2.1, (1)	9.10.2																																																							
3. Building Area (m ²)	BUILDING 'A' 22,560 sm BUILDING 'B' 9,085 sm	1.4.1.2, [A]	1.4.1.2, [A]																																																							
4. Gross Area (m ²)	Existing _____ New 56,052 Total 56,052	1.4.1.2, [A]	1.4.1.2, [A]																																																							
5. Number of Storeys	Above Grade 18 Below Grade N/A	1.4.1.2, [A] & 3.2.1.1	1.4.1.2, [A] & 9.10.4																																																							
6. Number of Streets/Fire Fighter Access	2	3.2.2.10 & 3.2.5.	9.10.20																																																							
7. Building Height																																																										
8. Building Classification	3.2.2.42 Group C, Any Height, Any Area, Sprinklered	3.2.2.20-83	9.10.2																																																							
9. Sprinkler System Proposed	<input checked="" type="checkbox"/> Entire Building <input type="checkbox"/> Selected Compartments <input type="checkbox"/> Selected Floor Areas <input type="checkbox"/> Basement <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> not required	3.2.2.20-83 3.2.1.5. 3.2.2.17. INDEX	9.10.8.2 INDEX																																																							
10. Standpipe Required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.9.	N/A																																																							
11. Fire Alarm Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.4.	9.10.18																																																							
12. Water Service / Supply is Adequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.5.7.	N/A																																																							
13. High Building	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.6.	N/A																																																							
14. Const. Restrictions	<input type="checkbox"/> Combustible Permitted <input checked="" type="checkbox"/> Non-Combustible Required <input type="checkbox"/> Both	3.2.2.20-83	9.10.6																																																							
Actual Const.	<input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-Combustible <input type="checkbox"/> Both																																																									
15. Mezzanine(s) Area (m ²)	N/A	3.2.1.1.(3)-(8)	9.10.4.1																																																							
16. Occupant Load based on:	<input type="checkbox"/> m ² /person <input checked="" type="checkbox"/> design of building	3.1.17	9.9.1.3																																																							
17. Plumbing Facilities:	Occupancy Load FL Female W.C. Lav's Male W.C. Lav's	3.7.4 3.7.4.2 3.7.4.3																																																								
18. Barrier-Free Design	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.8	9.5.2																																																							
19. Hazardous Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.3.1.2. & 3.3.1.19.	9.10.1.3.(4)																																																							
20. Required Fire Resistance Rating (FRR)	<table border="1"> <tr> <th>Horizontal Assemblies</th> <th>FRR (Hours)</th> <th>Listed Design No. or Description (SG-2)</th> </tr> <tr> <td>Floors</td> <td>2</td> <td>-</td> </tr> <tr> <td>Roof</td> <td>NO RATING</td> <td>-</td> </tr> <tr> <td>Mezzanine</td> <td>N/A</td> <td>-</td> </tr> <tr> <td>FRR of Supporting Members</td> <td></td> <td>Listed Design No. or Description (SG-2)</td> </tr> <tr> <td>Floors</td> <td>2</td> <td>-</td> </tr> <tr> <td>Roof</td> <td>NO RATING</td> <td>-</td> </tr> <tr> <td>Mezzanine</td> <td>N/A</td> <td>-</td> </tr> </table>	Horizontal Assemblies	FRR (Hours)	Listed Design No. or Description (SG-2)	Floors	2	-	Roof	NO RATING	-	Mezzanine	N/A	-	FRR of Supporting Members		Listed Design No. or Description (SG-2)	Floors	2	-	Roof	NO RATING	-	Mezzanine	N/A	-	3.2.2.20-83 3.2.1.4	9.10.8 9.10.9																															
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21. Spatial Separation - Construction of Exterior Walls	<table border="1"> <thead> <tr> <th>Wall</th> <th>Area of EFB (m²)</th> <th>L.D. (M)</th> <th>LH or H/L</th> <th>Permitted Max. % of Openings</th> <th>Proposed % of Openings</th> <th>FRR (Hours)</th> <th>Listed Design or Description</th> <th>Comb. Const.</th> <th>Comb. Const. Non-Cladding</th> <th>Non-Comb. Const.</th> </tr> </thead> <tbody> <tr> <td>North</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>South</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>East</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>West</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Wall	Area of EFB (m ²)	L.D. (M)	LH or H/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design or Description	Comb. Const.	Comb. Const. Non-Cladding	Non-Comb. Const.	North											South											East											West											3.2.3	9.10.14
Wall	Area of EFB (m ²)	L.D. (M)	LH or H/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design or Description	Comb. Const.	Comb. Const. Non-Cladding	Non-Comb. Const.																																																
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East																																																										
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22. Other - Describe																																																										

SITE DATA: NF1(1), OS1, UR1 (EXISTING)		
	REQ'D./ MAX./ MIN.	PROPOSED (18 STOREY (400+/- UNITS) BUILDING)
PROPOSED ZONED USE		VARIANCE REQUIRED
LOT AREA	700 SQ. M (MIN.)	14,533 SQ. M (1.453 HA)
LOT FRONTAGE	30 M (MIN.)	73.2 M
LOT DEPTH	30 M (MIN.)	291.7 M
FRONT SETBACK	8 M (MIN.) for arterial road 6 M (MIN.) for primary collector	6.8 M
REAR YARD SETBACK	6 M (MIN.)	182.8 M for BUILDING 'A' 22.2 M for BUILDING 'B'
INTERIOR SIDE YARD	6 M (MIN.)	3.5 M for BUILDING 'A' 3.5 M for BUILDING 'B'
EXTERIOR SIDE YARD	8 M (MIN.) for arterial road 6 M (MIN.) for primary collector	38.6 M
LOT COVERAGE	30% (MAX.)	19.5 %
BUILDING HEIGHT	12 M (MAX.)	67 M
LANDSCAPED OPEN SPACE	25% (MIN.)	40.2 %
PARKING	1.25 / UNIT for an Apt Bldg. parking standard area 3, section 4.19 [400x1.25 = 500 STALLS REQ'D.]	400 PROVIDED

18/10/09 PRE-CONSUL SPA TEAM1
NO. DATE: ISSUED FOR: BY:

THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, DIMENSIONS AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.

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THIS DRAWING IS NOT TO BE USED FOR BUILDING PURPOSES UNLESS QUANTIFIED BY THE ARCHITECT.

matter.

Matter Architectural Studio Inc.
120 Wellington Road - #102
London, Ontario, N6B 2K6
p: 519.601.6274
www.matterinc.ca

Project Title:
**1470 - 1474
HIGHBURY AVE RESIDENTIAL
DEVELOPMENT**

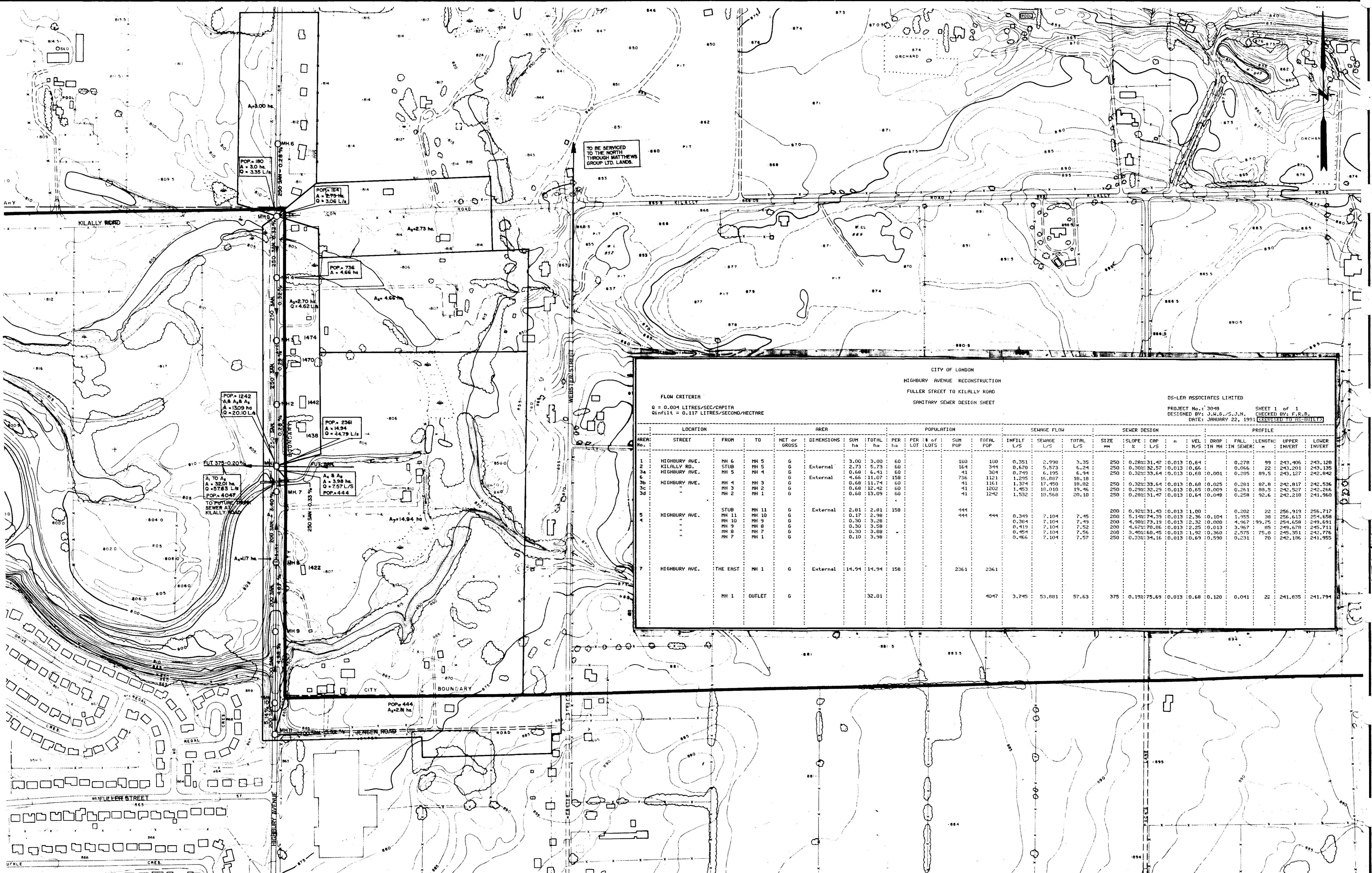
1470-1474 Highbury Ave. London, ON.

Sheet Name:
**SITE PLAN, SITE DATA
O.B.C. MATRIX**

Scale:
AS SHOWN

Project No:
18-066

Sheet No:
SP100



TO BE SERVICED TO THE NORTH THROUGH MATTHEWS GROUP LTD. LANDS.

CITY OF LONDON
HIGBURY AVENUE RECONSTRUCTION
FULLER STREET TO KILALLY ROAD
SANITARY SEWER DESIGN SHEET

DS-LEA ASSOCIATES LIMITED
PROJECT No. 3048 SHEET 1 of 1
DESIGNED BY: J.H.G.-S.J.N. CHECKED BY: F.R.B.
DATE: JANUARY 22, 1991 (REVISED TO AS-BUILT)

FLOW CRITERIA
Q = 0.004 LITRES/SEC/CAPITA
Q_{infill} = 0.117 LITRES/SECOND/HECTARE

AREA No.	LOCATION	AREA			POPULATION			SEWER FLOW			SEWER DESIGN			PROFILE									
		FROM	TO	NET or GROSS	PER LOT	SUM POP	TOTAL POP	INFILT L/S	SEWER L/S	TOTAL L/S	SIZE MM	SLOPE %	CAP L/S	n	VEL M/S	DROP IN MH	FALL IN SEWER	LENGTH M	UPPER INVERT	LOWER INVERT			
1	HIGBURY AVE.	MH 6	MH 5	G	External	3.00	3.00	60	180	180	0.351	2.998	3.35	250	0.282	31.47	0.013	0.64	0.278	99	243.406	243.128	
2	KILALLY RD.	STUB	MH 5	G	External	2.73	5.73	60	164	344	0.670	5.573	6.24	250	0.302	32.57	0.013	0.66	0.066	22	243.201	243.135	
3a	HIGBURY AVE.	MH 5	MH 4	G	External	0.58	6.41	60	41	384	0.749	6.195	6.94	250	0.322	33.64	0.013	0.69	0.001	0.295	99.5	243.127	242.842
3b	HIGBURY AVE.	MH 4	MH 3	G	External	4.66	11.07	158	736	1121	1.295	16.887	18.18	250	0.322	33.64	0.013	0.68	0.025	0.281	87.8	242.817	242.536
3c	"	MH 3	MH 2	G	External	0.68	12.42	60	41	1202	1.453	18.010	19.46	250	0.298	32.29	0.013	0.65	0.009	0.261	88.5	242.527	242.266
3d	"	MH 2	MH 1	G	External	0.68	13.09	60	41	1242	1.532	18.568	20.10	250	0.282	31.47	0.013	0.64	0.048	0.258	92.6	242.218	241.960
4	HIGBURY AVE.	STUB	MH 11	G	External	2.81	2.81	158	444	444	0.349	7.104	7.45	200	0.322	31.45	0.013	1.00	0.202	22	256.319	256.717	
5	"	MH 11	MH 10	G	External	0.17	2.98	60	444	444	0.364	7.104	7.49	200	4.982	74.39	0.013	12.36	0.104	1.955	38	256.613	254.658
6	"	MH 10	MH 9	G	External	0.30	3.28	60	444	444	0.419	7.104	7.52	200	4.982	73.19	0.013	12.32	0.000	4.967	99.75	254.658	249.691
7	"	MH 9	MH 8	G	External	0.30	3.58	60	444	444	0.454	7.104	7.56	200	4.672	70.86	0.013	12.25	0.013	3.967	85	249.678	245.711
8	"	MH 8	MH 7	G	External	0.30	3.88	60	444	444	0.454	7.104	7.56	200	3.402	60.45	0.013	11.92	0.360	2.575	75.8	245.351	242.776
9	"	MH 7	MH 1	G	External	0.10	3.98	60	444	444	0.466	7.104	7.57	250	0.332	34.16	0.013	0.69	0.590	0.231	70	242.136	241.955
7	HIGBURY AVE.	THE EAST	MH 1	G	External	14.94	14.94	158	2361	2361													
		MH 1	OUTLET	G	External		32.01			4047	3.745	53.881	57.63	375	0.192	75.69	0.013	0.68	0.120	0.041	22	241.835	241.794

11.427

AS CONSTRUCTED NOTES	AS CONSTRUCTED SERVICES	COMPLETION	NO	REVISIONS	DATE	BY	CONSULTANT OR DIVISION						
1. SEE DRAWING No. FOR FURTHER DETAIL				DESIGN S.J.N.	FEB. 1991	P.M.V.							
2. SEWER DESIGN: TRANSITION WIDTH OR AS NOTED				AS CONSTRUCTED									
3. REFERENCE S.M. NO. ELEVATION				CHECKED J.W.G.									
				APPROVED F.R.B.									
				DATE MAY 18/89									
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">DS-Lea Associates Ltd Consulting Engineers Planners Transportation Consultants</td> <td style="width: 10%; text-align: center;">PROJECT ENGINEER</td> <td style="width: 10%; text-align: center;">ENGINEER'S STAMP F. R. BERRY REGISTERED PROFESSIONAL ENGINEER CORPORATION OF THE CITY OF LONDON</td> <td style="width: 10%; text-align: center;">CORPORATION OF THE CITY OF LONDON <i>Robert J. Henson</i> DIVISION HEAD CITY ENGINEER</td> <td style="width: 10%; text-align: center;">SCALE 1" = 200' (IMPERIAL)</td> <td style="width: 10%; text-align: center;">TITLE HIGBURY AVENUE RECONSTRUCTION SANITARY SEWER DRAINAGE PLAN</td> <td style="width: 10%; text-align: center;">PROJECT No. TS-I330 SHEET No. 3048-03 PLAN FILE No. 11.427</td> </tr> </table>							DS-Lea Associates Ltd Consulting Engineers Planners Transportation Consultants	PROJECT ENGINEER	ENGINEER'S STAMP F. R. BERRY REGISTERED PROFESSIONAL ENGINEER CORPORATION OF THE CITY OF LONDON	CORPORATION OF THE CITY OF LONDON <i>Robert J. Henson</i> DIVISION HEAD CITY ENGINEER	SCALE 1" = 200' (IMPERIAL)	TITLE HIGBURY AVENUE RECONSTRUCTION SANITARY SEWER DRAINAGE PLAN	PROJECT No. TS-I330 SHEET No. 3048-03 PLAN FILE No. 11.427
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