

Preliminary Servicing and Stormwater Management Letter

Date: May 8, 2026 DevEng Project No.: DEL26-006

To: Housing and Community Growth Division, City of London

Subject: **Preliminary Servicing and Stormwater Management Letter for ZBA Application**
SPC-26006: Stacked Townhouse Development
725 Notre Dame Drive, London, Ontario

Introduction

Development Engineering (London) Limited (DevEng) has been retained by Wastell Homes (the Owner) to prepare preliminary site engineering design to support a Zoning By-Law Amendment (ZBA) Application for a proposed residential townhouse development at 725 Notre Dame Drive in London, Ontario. Currently, there are two commercial buildings located on the ± 2.21 ha property that are proposed to remain; a shopping centre (± 0.28 ha) and a Canada Post building (± 0.10 ha). The remainder of the site area (± 1.83 ha) currently consists of parking and landscaped areas.

The residential townhouse development is proposed on a ± 0.67 ha portion within the northeast corner of the existing subject property. The current Concept Plan by Monteith Brown Planning Consultants (dated April 21, 2026) includes the development of three stacked townhouse blocks, drive aisles, and required surface parking. Refer to Appendix A for the Concept Plan.

The purpose of this report is to support the ZBA Application by demonstrating effective and viable solutions on a preliminary basis to provide servicing, grading, and stormwater management for the proposed development.

Existing Conditions

The ± 2.21 ha subject site is bound by Viscount Road to the north, Notre Dame Drive to the east, and existing residential areas to the west and south. Record drawings were obtained from the City of London for the surrounding rights-of-way (ROW) and have been reviewed alongside the City of London Locates Map in preparation of the preliminary engineering design.

Water Servicing

Along the north side of Viscount Road, there is an existing 300 mm diameter ductile iron municipal watermain, and parallel to the 300 mm watermain is an existing 150 mm cast iron municipal watermain. There currently is a private 150 mm diameter cast iron watermain connected to the existing 150 mm municipal watermain along Viscount Road which services the existing shopping centre building on-site. Refer to the City of London record drawings 3494 and WD-424, and previously approved site plan drawing A-1031784 in Appendix A.

Along the west side of Notre Dame Drive, there is an existing 200 mm cast iron municipal watermain. There currently is a private 40 mm copper water service connected to the municipal watermain on Notre Dame Drive which services the existing Canada Post building on-site. Refer to the City of London record drawing 3502 and previously approved site plan drawing by Coletti and Associates Engineers in Appendix A.

All the existing municipal watermains adjacent to the site are part of the high-level distribution network with a Hydraulic Grade Line (HGL) of 335.0 m as outlined in the City of London Site Plan Consultation comments.

There are two existing municipal hydrants adjacent to the subject development; one located near the east development boundary along Notre Dame Drive and the second located near the north development boundary along Viscount Road.

Sanitary Servicing

There is an existing 200 mm municipal sanitary sewer along the north side of Viscount Road which conveys wastewater flows to the west. The intersection of Viscount Road and Notre Dame Drive acts as a high point in the existing sanitary network along Viscount Road, conveying flows to the west and east, both directions ultimately outlet at the Greenway Wastewater Treatment Centre. Refer to the City of London record drawings 3494 in Appendix A.

There is an existing 200 mm municipal sanitary sewer along the west side of Notre Dame Drive which conveys wastewater flows north to the intersection of Notre Dame Drive and Viscount Road, beyond the intersection flows continue east down Viscount Road. Refer to the City of London record drawings 3494 and 3502 in Appendix A.

In addition, there is an existing 200 mm municipal sanitary sewer along the north side of Ensign Drive. It appears that the flows within this sanitary sewer are conveyed to the Viscount Road sanitary sewer. Refer to the City of London record drawings 27719 and 27720 in Appendix A.

There are two private sanitary sewers extending into the subject site to service the existing buildings; one from Ensign Drive to service the shopping centre building and the second from Notre Dame Drive to service the Canada Post building. Refer to previously approved site plan drawing by Coletti and Associates Engineers and the A-1031784 drawing in Appendix A.

City of London Site Plan Consultation comments (dated February 20, 2026) outlined the existing sanitary sewer on Notre Dame Drive as being the allocated sanitary outlet for the subject development. A sanitary flow allocation was calculated utilizing the maximum density population of 100 p/ha in accordance with the current zoning (commercial density), resulting in an allocated peak flow of 0.91 L/s (utilizing the approximate proposed development area of ± 0.67 ha). It was noted in the City's Consultation that the sewer appears to have sufficient residual capacity to support the development.

Storm Servicing

There are existing 300 to 450 mm diameter municipal storm sewers adjacent to the site along the south side of Viscount Road which conveys flows to the west. Similar to the existing sanitary sewer, the intersection of Viscount Road and Notre Dame Drive acts as a high point within the existing storm sewer along Viscount Road, conveying flows to the west and east. The existing storm sewer conveying flows west, ultimately outlet to the Pincombe Drain (Westmount) ± 1.1 km to the south of the subject development. Flows to the east ultimately

outlet at *Southcrest Ravine* on the north side of Base Line Road West, ± 1.2 km to the north of the subject development.

The existing 450 mm diameter municipal storm sewers adjacent to the subject development along Notre Dame Drive convey flows north to the intersection of Notre Dame Drive and Viscount Road, beyond the intersection flows continue east down Viscount Road. Refer to the City of London record drawings 3494 and 3502 in Appendix A.

In addition, there is an existing 600 mm municipal storm sewer along the south side of Ensign Drive which appears to also convey stormwater flows to the *Pincombe Drain (Westmount)*.

There are three private storm sewer networks within the site that service the existing buildings and parking areas. The first network services the existing surface parking in the northeast area of the subject site, which is connected to the existing storm sewer on Viscount Road. The second network services the shopping centre building and directly surrounding surface parking, which is connected to the existing storm sewer on Ensign Drive. The third network services the Canada Post building and the directly surrounding surface parking, which is connected to the existing storm sewer on Notre Dame Drive. Refer to previously approved site plan drawing by Coletti and Associates Engineers and the A-1031784 drawing in Appendix A.

Detailed topographic information was obtained by DevEng on March 10, 2026, indicating the approximate areas currently tributary to the above-noted private storm sewer networks. Approximately 0.86 ha, 0.96 ha, and 0.42 ha of the existing site is currently tributary to the private storm sewer networks outletting to Viscount Road, Ensign Drive, and Notre Dame Drive, respectively. Refer to the Existing Conditions Drainage Schematic in Appendix E.

The detailed topographic information also indicated that the major overland flow route for the entire subject site is currently directed to Ensign Drive, through the ± 3.0 m wide easement between 202 Ensign Drive and the rear lot of 780 Viscount Road. Table A below summarizes the current flows outletting to the existing municipal sewers surrounding the site.

Table A: Existing Conditions Flows Summary

Design Storm Event	Peak Minor Flow to Notre Dame Drive (L/s)	Peak Minor Flow to Viscount Road (L/s)	Peak Minor Flow to Ensign Drive (L/s)	Peak Major Flow to Ensign Drive (L/s)
2-year	77	120	180	0
5-year	83	163	251	0
10-year	86	191	298	0
25-year	88	228	359	0
50-year	90	256	403	0
100-year	91	286	439	0

Proposed Conditions

The development concept for the subject site proposes three townhouse blocks, which are proposed to consist of individual stacked townhomes, each with two units on the ground floor and a single unit on the top floor, for a total of 54 units. Utilizing the City of London's density criterion of 2.4 people per unit (medium-density), results in an approximate population of 130 people. Preliminary servicing design has been completed and is outlined in the following sections.

Water Servicing

The water servicing is anticipated to connect to the existing 200 mm municipal watermain on Notre Dame Drive. At this stage of design, an assumed 200 mm private watermain is proposed to service the subject development for domestic and fire flow demands. It is also anticipated that each stacked townhouse, consisting of three units, requires only one external water service, while internal plumbing is anticipated to distribute flows to each unit. Water metering is anticipated to be provided by a bulk meter located near the proposed east entrance to the development.

Preliminary domestic demand calculations have been completed based on the City of London Design Specifications & Requirements Manual (DSRM) Section 7.3.2., which result in the following domestic demands:

Table B: Preliminary Domestic Demand Summary

Demand Scenario	Concept Plan Including all Townhouse Blocks (dated April 21, 2026)
Average Day	0.39 L/s
Peak Hour	1.37 L/s
Maximum Day	3.04 L/s

Additionally, one fire hydrant has been proposed and located in accordance with Ontario Building Code (OBC) section 3.10.3.4. Preliminary fire flow calculations were completed for the subject development, assuming the buildings are not sprinklered, in accordance with OBC A-3.2.5.7., resulting in an approximate worst-case fire flow demand of 90.0 L/s required to service the proposed residential buildings. Refer to Appendix C for water demand and fire flow calculations.

Given the City's watermain system is well-looped for redundancy and includes strategic boosting stations, the connection to the City's existing water to service the proposed private watermain network is expected to comply with the OBC and DSRM Chapter 7.0, while adequately accommodating the Average Day, Maximum Day, Peak Hour, and Fire Flow demands identified above.

As noted in the City of London DSRM and Site Plan Consultation comments, a detailed water analysis and model are to be provided during detailed design.

Sanitary Servicing

As noted in the City of London Site Plan Consultation comments, the sanitary servicing is anticipated to connect to the existing 200 mm municipal sanitary sewer on Notre Dame Drive. At this stage of design, an assumed 200 mm private sanitary sewer is proposed to service the site for peak wastewater flows. It is also anticipated

that each stacked townhouse, consisting of three units, requires one external sanitary service, while internal plumbing is anticipated to convey flows from each unit to the sanitary service.

Preliminary demand calculations were completed for the subject development based on the proposed population of 130 people, resulting in a total peak flow of 1.67 L/s; minimally exceeding the allocated flows (0.91 L/s) by 0.76 L/s. Refer to the Preliminary Sanitary Calculation Sheet in Appendix D

The City of London noted in the Site Plan Consultation comments that there should be sufficient surplus capacity to accommodate this population increase. However, as there are no area plans and design sheets for the receiving downstream sewer (confirmed with the City's Geomatics Division on April 28th, 2026) to confirm the surplus capacity, the uniform conveyance capacity of the immediate downstream sewer on Notre Dame Drive has been calculated to be on the order of ± 22.00 L/s. The slight increase of 0.76 L/s from the allocated flow to the design flow represents an approximate increase of 3.4% in flow within the existing downstream pipe (refer to the Preliminary Sanitary Calculation Sheet in Appendix D).

Storm Servicing

The storm servicing is anticipated to consist of a private storm network with pipe diameters ranging from 300 mm to 450 mm, utilizing catchbasins and catchbasin maintenance holes to capture stormwater runoff. At this stage of design, it is anticipated that roof drainage from each of the buildings would be directed to grade via downspouts. In addition, the townhouse blocks are not proposed to have basements, so sump pumps are not expected; therefore, no storm services to the units are proposed at this time. Further details on addressing stormwater management (SWM) are outlined the following SWM Section.

Refer to the Preliminary Servicing and Grading Plans in Appendix B for the preliminary water, sanitary, and storm designs.

Stormwater Management

SWM Targets

In accordance with the DSRM Section 6.9, a Permanent Private Stormwater System (PPS) is mandatory for the subject development. As outlined in the Site Plan Consultation comments, the proposed development falls under Case #3a. This case outlines the following design criteria must be met:

- i. the flows from a site being developed are to be restricted to those flows which were allowed for the site in the design of the receiving storm sewer;
- ii. the major flows and site grading are to be controlled on site up to the major storm event; and,
- iii. 100% of quality and erosion controls are to be provided for the lands to be developed, as per the applicable Subwatershed Study.

Allowable SWM Conditions

The City of London Site Plan Consultation comments outline that a portion of the subject site (± 0.45 ha; as per approximate markup on the record drawing number 11993 in Appendix A) is allocated to the existing storm sewer on Notre Dame Drive. However, under the existing conditions, there is currently a ± 0.42 ha area on the subject site that is tributary to the existing storm sewer on Notre Dame Drive (refer to the Existing Conditions Drainage Schematic in Appendix E). It is anticipated that this area is already utilizing the allocated flows to Notre Dame Drive.

As noted previously in the Existing Storm Sewer Section, there is currently a portion of the site (± 0.86 ha) containing a private storm sewer network conveying minor flows to Viscount Road. It is anticipated that the existing Viscount Road storm sewer currently servicing the site can continue to service the proposed development with the understanding that the flows from the site are to be restricted to those flows which were allowed for the site in the design of the receiving storm sewer in accordance with PPS Case #3a (i).

In the absence of record drawings (confirmed with the City's Geomatics Division on April 28th, 2026), including area plans and design sheets for the Viscount Road storm sewer network, design calculations have been completed to establish target outflows to the existing Viscount Road storm sewer to align with the PPS Case #3a criterion.

Located adjacent to the site, the storm sewer between maintenance holes Ex. MH C-11 and Ex. MH C-10, is identified as a 450 mm diameter pipe at 0.36% (refer to the highlighted pipe on record drawing number 3494). A Manning's uniform pipe capacity calculation was completed to determine the existing storm pipe's maximum flow capacity of ± 171 L/s for a 5-year design storm event. Refer to the Uniform Flow Capacity Calculation in Appendix E.

Currently, a total area of ± 1.50 ha is tributary to the existing storm sewer. This area consists of the pipe's tributary area (A1) within the Viscount Road ROW (± 0.20 ha), the tributary area (A2) within the existing residential area north of Viscount Road (± 0.44 ha), and the existing tributary area (A3) of the subject site (± 0.86 ha). Refer to the Viscount Storm Sewer Tributary Drainage Schematic in Appendix E. Utilizing the approximate tributary areas in comparison to the approximate uniform pipe capacity, an allocated flow for the existing site tributary area (± 0.86 ha) was calculated to be on the order of ± 97 L/s (assumed 5-year flow). Refer to the Allowable Flow Analysis Calculation sheet in Appendix E.

An allowable model of the existing site tributary area (± 0.86 ha) was created using PCSWMM and calibrated to the calculated allowable flow of ± 97 L/s to determine allowable outflows to Viscount Road in the 2-year to the 100-year design storm events. Refer to Table C below for a summary of calculated allowable outflows and the existing outflows to the Viscount Road:

Table C: Allowable (Target) and Existing Flows to Viscount Road from 725 Notre Dame Drive.

Design Storm Event	Allowable (Target) Outflow to Viscount Road (L/s)	Existing Outflow to Viscount Road (L/s)
2-year	63	120
5-year	97	163
10-year	123	191
25-year	155	228
50-year	180	256
100-year	205	286

As shown in Table C, the calculated allowable outflows for the 2-year to 100-year design storm events are less than those of the existing conditions to the existing Viscount Road storm sewer. It is of our opinion in the absence of area plans and design sheets that the calculated allowable outflows are a conservative SWM target satisfying the PPS minor flow criterion (i).

Post-Development SWM Strategy

Post-Development SWM Conditions

A preliminary post-development model was created using PCSWMM, which consisted of the total proposed tributary area (± 0.83 ha) to the minor storm outlet to the existing Viscount Road storm sewer. Refer to the Post-Development Drainage Figure in Appendix E. The modeling indicated that the stormwater runoff produced from this area would exceed the allowable target outflows; therefore, it is anticipated that on-site storage would be required.

Quantity Control

Utilizing PCSWMM, modeling results indicated that approximately 167 m³ of on-site storage would be required to control 100-year design storm event flow to the target outflow. The table below summarizes the approximate storage volumes required to meet the target outflows for all design storm events:

Table D: Approximate Storage Requirements to meet Target Outflows

Design Storm Event	Approximate On-Site Storage Volume Required to meet Allowable Minor Flows to Viscount Drive (m ³)
2-year	78
5-year	103
10-year	120
25-year	139
50-year	153
100-year	167

Refer to the SWM calculation summary tables in Appendix E.

To achieve the SWM target outflows to the existing Viscount Road storm sewer as well as controlling the major flows on site (PPS Case #3a (i) and (ii)), underground and surface storage are anticipated to be utilized to restrict and detain stormwater flows. It is anticipated that underground storage is to be utilized for all design storm events, with the addition of surface storage for the less frequent storm events (10-year and above).

Quality Control

Quality control for the proposed development is anticipated to be provided by an Oil-Grit Separator (OGS) installed downstream of the underground storage system. The OGS will be designed and sized to provide the 'Enhanced' level of protection (80% Total Suspended Solids (TSS) removal) in accordance with the MOE's Stormwater Management Planning and Design Manual; therefore, satisfying the quality control target outlined in the PPS criterion (iii).

Erosion and Sediment Control

ESC measures are to be used throughout construction to help stabilize the site and prevent migration of soil particles to neighboring parcels. ESC measures and details are to be proposed and submitted as part of the Site Plan Approval Application.

Conclusion

We trust this Preliminary Servicing and SWM Letter and supporting appended documents address the servicing and stormwater management strategies to support the Zoning By-Law Amendment Application for the proposed townhouse development at 725 Notre Dame Drive. If there are any questions or comments, please do not hesitate to contact our firm.



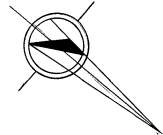
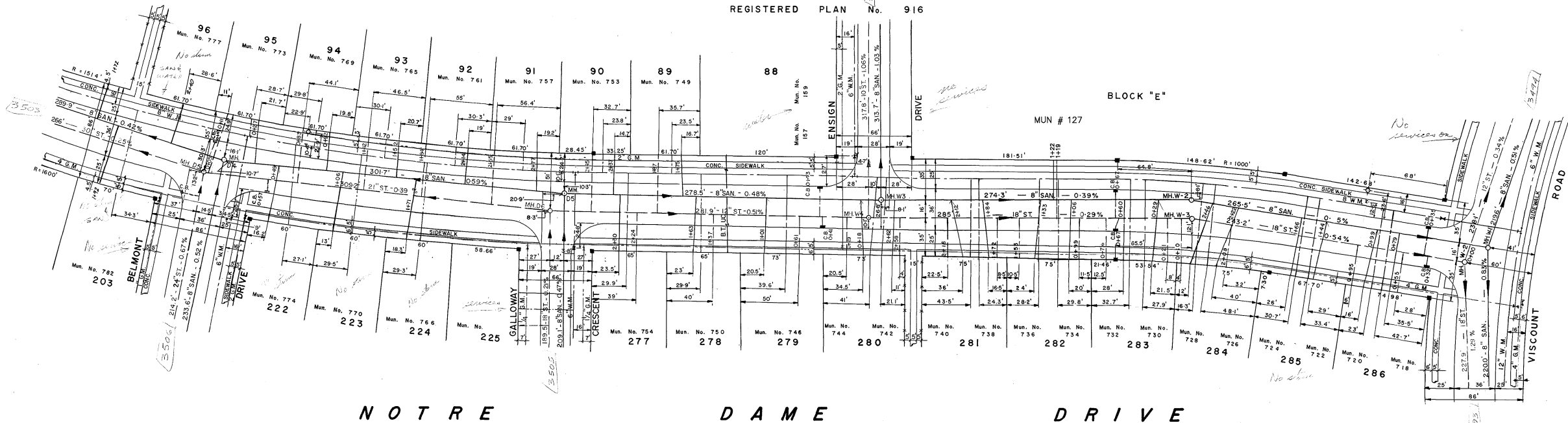
Shannon Palmer
Designer



Troy Winger, P.Eng.
Design Engineer

Appendix A: Background Information

- Concept Plan by MBPC
- City of London Record Drawings
 - o Notre Dame Drive
 - o Viscount Road
 - o Ensign Drive
- Previous Site Plan Drawings



Caution:
Private Drain Connection (PDC) information has been added to this plan. The location of PDC's along the main are believed to be accurate to within 3 feet (1 meter) but the direction of the PDC from the main to the property line has not been verified. Caution must be exercised when using this information to locate PDC's. The City of London does not accept any responsibility for the information on this plan, and is not responsible for any expenses or damages incurred directly or indirectly resulting from the use of such information.

NOTE: MANHOLE AND WATER VALVE LOCATIONS HAVE BEEN VERIFIED IN THE FIELD BUT ALL ELEVATIONS ON THE PROFILE ARE DESIGN ONLY AND MUST BE VERIFIED.

NOTES:
COVER OVER WATERMANS, TOP OF MAIN TO ROAD CENTRE LINE IS APPROXIMATELY 5'-0".
SANITARY AND STORM P.D.C.'s - 4" A.C. CL. 1500, RUBBER GASKET, "C" BEDDING.
CATCH BASIN LEADS - 8" E.S. CONC. PIPE, MORTAR JOINT, "C" BEDDING.
CURB AND GUTTER RADII AT STREET INTERSECTIONS IS 50', UNLESS OTHERWISE NOTED.
MANHOLE CHAINAGES ARE 0+00. CHAINAGES FOR P.D.C.'s INCREASE FOLLOWING THE SEWERS UPSTREAM.
FOR BEDDING DETAILS AND GENERAL NOTES REFER TO DWG. NO. 9 OF VISCOUNT ROAD.

SERVICES	COMPLETION DATE
SANITARY SEWERS, P.D.C.'s & M.H.'s	JUNE 1965
STORM SEWERS, P.D.C.'s, C.B.'s & M.H.'s	SEPT. "
WATERMANS & W.S.C.'s	OCT. "
GRANULAR BASE	JULY 1967
CURB & GUTTER	" "
SIDEWALKS	" "
PAVING	AUG. "

"AS CONSTRUCTED"

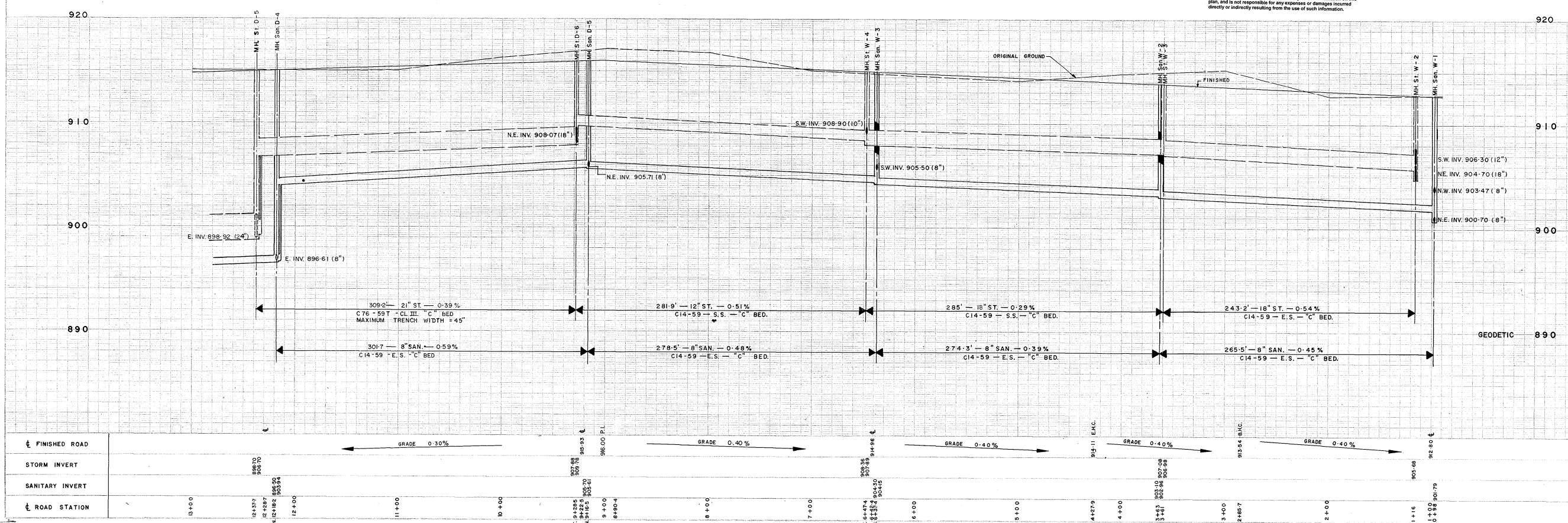


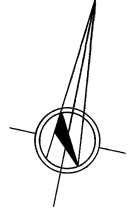
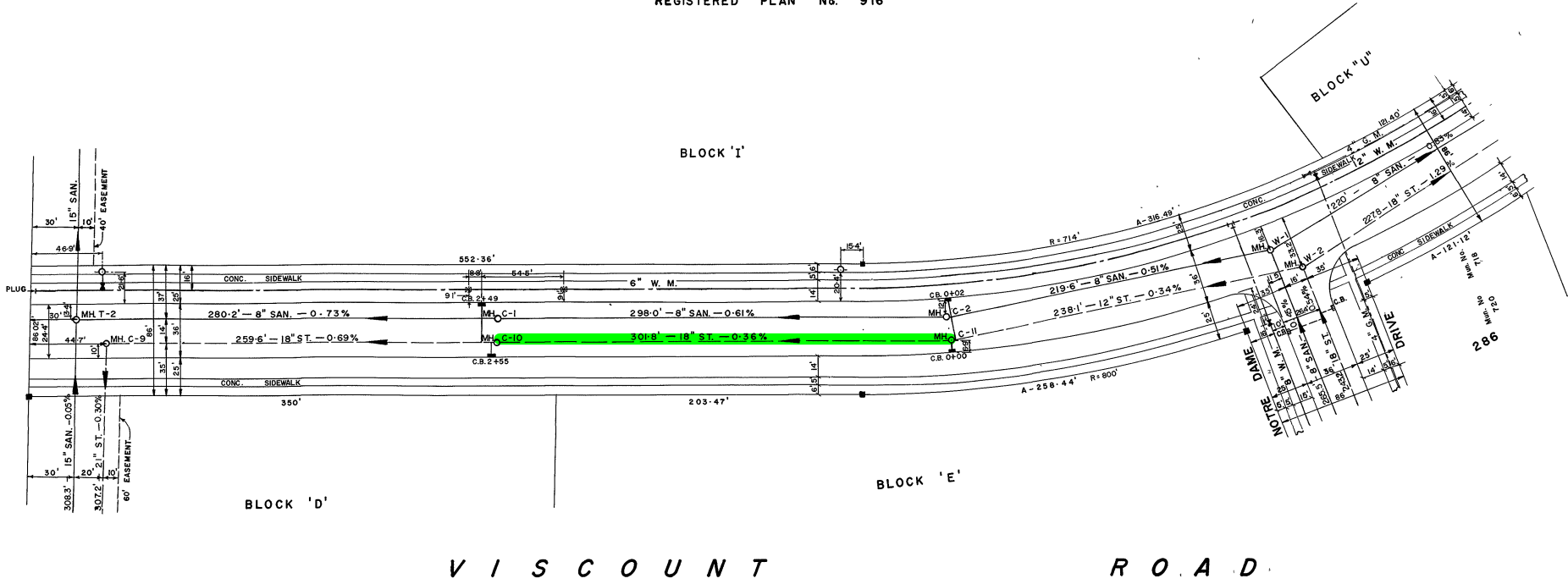
CITY OF LONDON

NORTON ESTATES SUBDIVISION - PHASE 2
FELLNER CONSTRUCTION LTD. - SUBDIVIDER

NOTRE DAME DRIVE
FROM VISCOUNT ROAD TO BELMONT DRIVE

DESIGN BY C.G. FORBERG	REVISIONS	DATE	BY
DRAWN BY A. DORRENTY & E.W.			
CHECKED BY R.W. LEE			
PROJECT NO. 62-1117	SECTION NO.	DRAWING NO.	3502
DRAWING NO. 20			





V I S C O U N T R O A D

NOTES: MANHOLE AND WATER VALVE LOCATIONS HAVE BEEN VERIFIED IN THE FIELD BUT ALL ELEVATIONS ON THE PROFILE ARE DESIGN ONLY AND MUST BE VERIFIED.

NOTES:
COVER OVER WATERMAINS, TOP OF MAIN TO ROAD CENTRE LINE IS APPROXIMATELY 5'-0".
SANITARY AND STORM P.D.C.'s - 4" A.C., CL. 1500, RUBBER GASKET, "C" BEDDING.
CATCH BASIN LEADS - 8" E.S. CONC. PIPE, MORTAR JOINT, "C" BEDDING.
CURB AND GUTTER RADI AT STREET INTERSECTIONS IS 30', UNLESS OTHERWISE NOTED.
MANHOLE CHAINAGES ARE 0+00. CHAINAGES FOR P.D.C.'s INCREASE FOLLOWING THE SEWERS UPSTREAM.
FOR BEDDING DETAILS AND GENERAL NOTES REFER TO DWG. No. 9 OF VISCOUNT ROAD.

SERVICES	COMPLETION DATE
SANITARY SEWERS, P.D.C.'s & M.H.'s	SEPT 1963
STORM SEWERS, P.D.C.'s, C.B.'s & M.H.'s	" "
WATER MAINS & W.S.C.'s	JULY 1964
GRANULAR BASE	MAY 1965
CURB & GUTTER	" "
SIDEWALKS	" "
PAVING	JUNE "

"AS CONSTRUCTED"



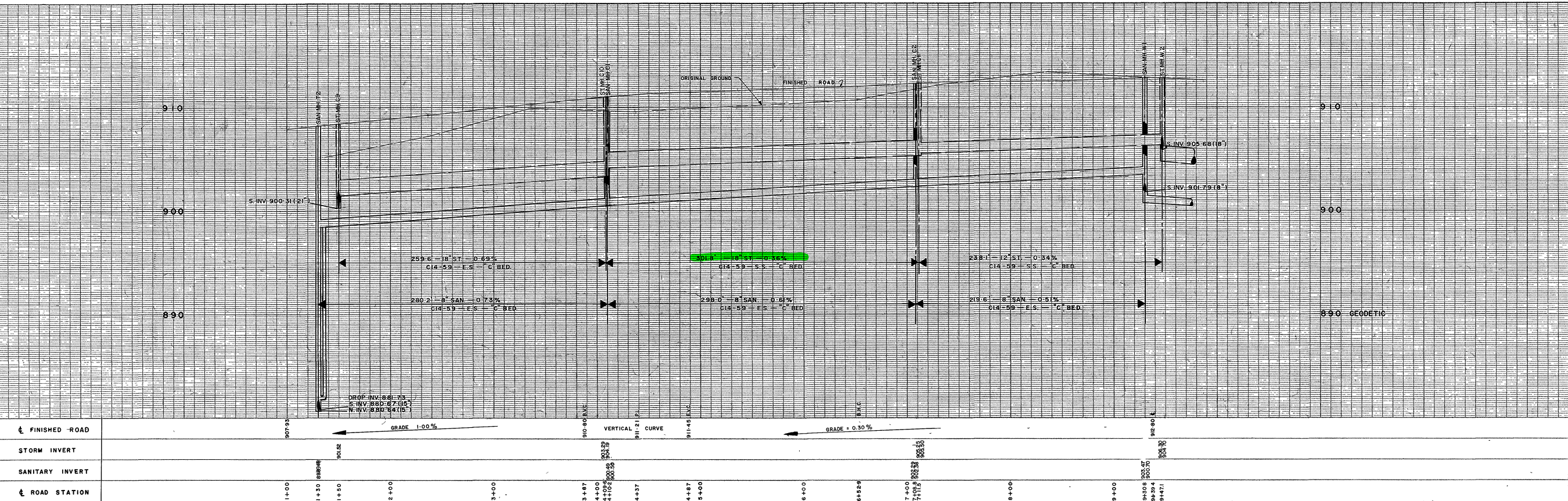
NO.	REVISIONS	DATE	BY

CITY OF LONDON

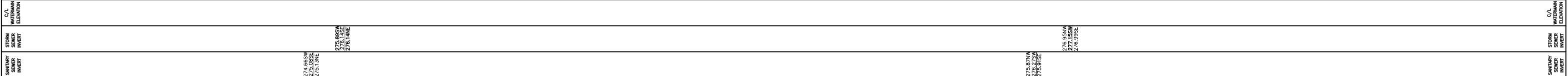
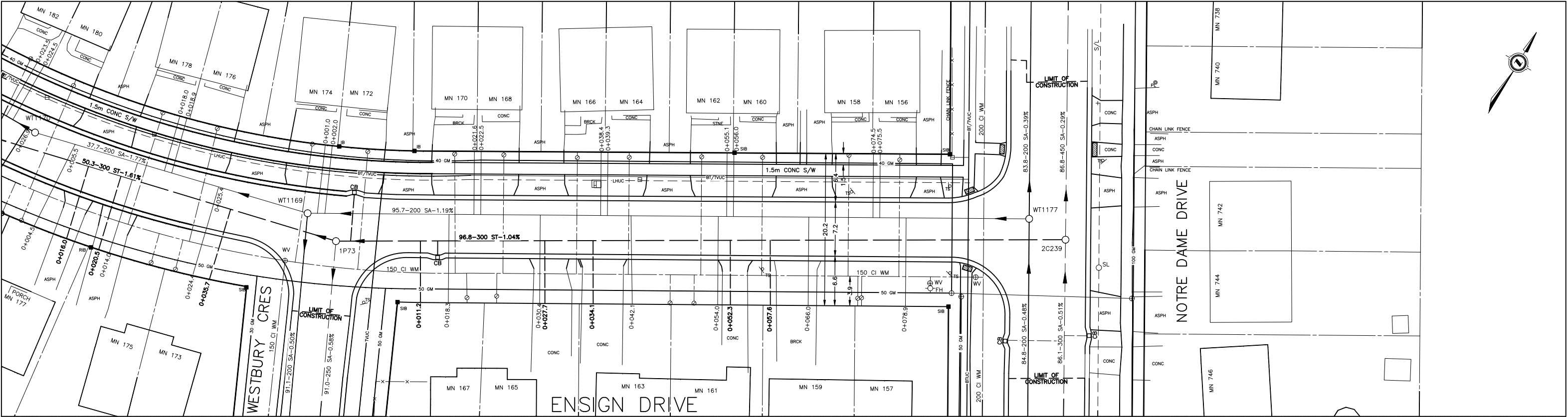
NORTON ESTATES SUBDIVISION - PHASE 2
FELLNER CONSTRUCTION LTD. - SUBDIVIDER

VISCOUNT ROAD
FROM NOTRE DAME DRIVE TO WEST LIMIT

DESIGN BY C.G. FORBERG DRAWN BY A. DOBRENTSEY CHECKED BY R.W. LEE	FIELD BOOK SCALE: HOR. 1" = 40' VERT. 1" = 4' DATE: FEB. 1971	APPROVED BY: SECTION HEAD CITY ENGINEER	CITY ENGINEER'S DEPARTMENT PROJECT NO.: DRAWING NO.: 3494
R. C. DUNN & ASSOCIATES LTD. CONSULTING ENGINEERS LONDON ONTARIO PROJECT NO. 62-117 DRAWING NO. 12			

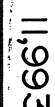


FINISHED ROAD	907.93
STORM INVERT	900.82
SANITARY INVERT	900.82
ROAD STATION	1+00



STATION	1+302	1+305	1+320	1+335	1+350	1+365	1+380	1+395	1+410	1+425	1+440	1+455	1+470	1+485	1+500	STATION	
EXISTING SERVICES		DRAWING #, SOURCE		CONSTRUCTION DATE	CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR SERVICE AREA					
SANITARY SEWER		3497/3502		APR.64/JUNE.65	GRANULAR BASE	2016	DESIGN YS	1	AS CONSTRUCTED	FEB 2018	GEOMATICS(AW)	ENGINEER'S STAMP   CORPORATION OF THE CITY OF LONDON ENVIRONMENTAL & ENGINEERING SERVICES					
STORM SEWER		3497/3502		MAY.64/SEPT.65	CR'S	2016	DRAWN BY DB										
WATERMAIN		3497/3502		JUNE.64/OCT.65	CURB & GUTTER	2016	CHECKED PDC										
					SIDEWALK	2016	APPROVED PDC										
					PAVING-BASE	2016	DATE 2020/08/26										
					PAVING-TOP	2016											
					STORM SEWERS & PDCs	2016											
												SCALE		TITLE		PROJECT No.	
												HORIZONTAL-1:250 2,5 0 5m		2016 ANNUAL ROAD RECONSTRUCTION PROGRAM AS CONSTRUCTED		2016 LOCAL	
												VERTICAL-1:50 0,5 0 1m		ENSIGN DRIVE		SHEET No.	
														FROM 45m WEST OF WESTBURY CRES TO NOTRE DAME DR		3 OF 5	
																PLAN FILE No.	
																27720	

A16	VILLAGE GREEN	57	58	RES	0.2326	1.199	0.45	0.1021	0.540	0.510	1.500	0.60	18.40	75	112.494	200	2.77	0.015	133.433	1.873	64.76	0.56	0.000	0.850	1.849	816	1.802	1.591
A17	RED ARCHA	54	59	RES	0.2535	1.724	0.45	0.2236	0.776	0.731	2.117	0.58	20.16	74	144.338	275	4.34	0.016	232.370	3.931	9.80	0.50	0.000	0.915	0.800	778	0.526	1.445
A18	TAFTSTOCK RD	58	59	RES	0.2689	2.003	0.45	0.1676	0.942	0.942	2.618	0.60	20.16	74	133.757	275	4.34	0.015	232.770	3.931	19.84	0.54	0.000	0.000	2.504	1000	1.907	1.591
A19	TAFTSTOCK RD	58	60	RES	0.610	2.703	0.45	0.2175	1.216	1.216	3.381	0.30	25.50	72	243.455	275	3.50	0.010	240.339	3.931	61.87	0.47	0.000	0.000	1.874	1012	2.567	2.204
A20	TAFTSTOCK RD	60	61	RES	0.5418	2.351	0.45	0.2047	1.043	1.043	4.047	0.40	20.16	73	208.757	275	3.50	0.010	240.259	3.931	61.26	0.47	0.000	0.000	1.321	1000	2.164	2.164
A21	TAFTSTOCK RD	61	54	RES	0.5418	2.351	0.45	0.2047	1.769	1.769	4.016	0.47	21.45	70	244.150	275	4.30	0.015	241.729	3.971	103.94	0.58	0.000	0.975	1.321	1222	1.940	2.164
A22	TAFTSTOCK RD	50	55	RES	0.2255	0.225	0.45	0.1001	0.101	0.101	0.281	0.64	19.40	76	21.252	250	2.03	0.015	72.421	1.456	38.83	0.43	0.000	0.000	0.788	226	0.172	0.436
A23	TAFTSTOCK RD	50	55	RES	0.2303	0.234	0.45	0.1201	0.210	0.210	0.659	0.40	19.40	75	50.103	450	0.50	0.010	174.721	1.939	32.61	0.49	0.000	0.200	0.163	226	0.041	0.315
A24	TAFTSTOCK RD	51	52	RES	0.4495	1.028	0.45	0.2023	0.463	0.463	2.287	0.40	18.90	75	55.256	450	0.71	0.015	100.251	2.500	33.93	0.46	0.000	0.000	0.268	1000	0.149	0.399
A25A	SCHOOL FIELD	52	52	RES	0.4003	1.832	0.30	0.2041	2.504	2.504	6.561	0.60	20.59	72	501.191	975	0.45	0.013	563.885	2.576	0.00	0.00	0.000	0.225	0.000	746	0.355	1.401
A26	SCHOOL FIELD	52	53	RES	0.4006	1.832	0.30	0.4000	2.504	2.504	6.561	0.60	20.59	72	501.191	975	0.65	0.013	671.705	1.894	2.15	0.03	0.000	0.000	0.060	746	0.355	1.401
A27	SCHOOL FIELD	52	53	RES	0.6000	1.832	0.20	0.0000	2.504	2.504	6.561	0.60	20.62	73	501.191	975	0.39	0.013	626.374	2.207	40.72	0.20	0.000	0.000	0.570	1000	0.355	1.401
A28	TAFTSTOCK RD	54	52	RES	0.2644	0.806	0.45	0.1175	0.623	0.623	2.281	0.30	20.70	75	524.710	975	0.45	0.013	555.885	2.576	3.00	0.05	0.000	0.000	1.168	918	0.200	1.457
A29	TAFTSTOCK RD	52	54	RES	0.1387	25.454	0.45	0.0883	10.614	10.614	25.586	0.80	27.21	50	1746.847	1000	0.74	0.013	3340.083	2.723	11.35	0.25	0.000	0.375	0.265	700	0.496	2.010
A37	RENTON CREE	61	62	RES	0.556	0.556	0.45	0.230	0.250	0.250	0.696	0.64	15.00	76	52.862	275	1.50	0.015	186.104	1.688	76.50	0.76	0.000	0.000	1.168	281	0.121	0.475
A38	RENTON CREE	62	63	RES	0.610	1.188	0.45	0.215	0.325	0.325	1.458	0.78	19.70	75	108.400	350	1.50	0.016	188.104	1.685	76.50	0.75	0.000	0.000	1.168	518	0.518	0.991
A39	RENTON CREE	63	64	RES	0.606	1.572	0.45	0.263	0.367	0.367	1.847	0.78	20.40	77	141.839	450	0.41	0.005	191.404	1.813	36.71	0.44	0.000	0.000	0.218	1000	0.170	0.475
A40	RENTON CREE	64	27	RES	0.321	1.067	0.45	0.044	0.847	0.847	2.356	0.54	19.70	77	167.850	450	-0.78	0.015	325.805	3.601	64.58	0.54	0.000	0.000	1.107	518	0.558	1.052
A41	KNIGHTS HILL	54	55	RES	0.538	20.362	0.45	0.289	12.861	12.861	35.170	27.47	50	3095.054	1200	2.00	0.013	5513.448	4.473	81.38	0.28	0.000	0.200	1.458	381	0.283	1.425	
A42A	PALE	55	26	RES	0.271	31.355	0.45	0.438	18.000	18.000	36.238	0.32	27.75	50	2148.483	1200	2.00	0.013	4984.455	4.870	60.40	0.40	0.000	0.200	1.354	126	0.368	1.354
A43	KNIGHTS HILL	55	26	RES	0.978	20.362	0.45	0.219	13.008	13.008	37.273	30.40	55	2161.584	1200	0.50	0.013	4996.455	4.823	67.17	0.51	0.000	0.000	0.436	433	0.964	1.222	
A44	KNIGHTS HILL	56	27	RES	0.187	49.862	0.45	0.091	20.731	20.731	37.631	0.51	26.25	50	232.626	1200	0.50	0.013	4996.455	4.823	36.58	0.22	0.000	0.000	0.183	476	0.324	1.953
A45	KNIGHTS HILL	27	28	RES	0.632	38.108	0.70	0.443	20.921	20.921	61.619	0.22	28.97	47	3489.179	1200	0.30	0.013	4996.455	4.823	76.93	0.44	0.000	0.000	0.370	704	0.644	1.975
A46	KNIGHTS HILL	58	59	RE/COM	0.127	52.721	0.75	0.252	22.197	22.197	61.618	0.44	34.51	52	244.564	1200	0.50	0.013	4996.455	4.823	36.58	0.22	0.000	0.000	0.183	476	0.324	1.975
A46A	KNIGHTS HILL	27	28	RE/COM	0.742	38.108	0.70	0.463	20.927	20.927	62.762	0.27	29.58	50	348.562	1200	0.61	0.013	4964.193	4.807	39.91	0.31	0.12	0.000	0.370	704	0.644	1.975
A47	COURTESYBORO	31	RE/COM	0.000	58.064	0.70	0.000	24.727	24.727	67.912	0.12	29.21	50	3700.819	1200	0.58	0.013	5429.712	4.970	39.91	0.21	0.000	0.000	0.126	776	0.886	2.140	
BAKESFIELD		32	RES	0.000	58.064	0.70	0.000	24.727	24.727	67.912	0.21	29.21	50	3700.819	1200	1.37	0.013	4808.426	4.316	39.91	0.28	0.000	-0.200	1.826	776	0.886	2.140	
BALSWAY		33	RES	0.001	58.065	0.50	0.000	25.148	25.148	67.912	0.20	29.48	50	4008.636	1200	1.38	0.013	5416.454	4.961	39.91	0.11	0.000	0.000	1.158	776	1.060	2.140	
A48	RED ARCHA	33	34	RES	0.257	61.128	0.50	0.1279	27.576	27.576	76.662	0.31	30.01	55	4216.442	1200	0.50	0.013	5416.454	4.929	39.91	0.00	0.000	0.000	0.309	606	0.856	2.100
A49	BALSWAY	34	35	RES	0.266	62.102	0.50	0.178	27.564	27.564	77.157	0.30	30.01	56	4243.648	1200	0.51	0.013	5763.280	5.816	39.96	0.18	0.000	0.000	0.308	606	0.880	2.001
A50	BALSWAY	34	OUTLET	RES	1.453	63.571	0.50	0.757	28.181	28.181	79.177	0.18	30.16	55	4361.730	1200	1.38	0.013	5964.794	5.829	39.36	0.56	0.000	0.000	0.343	606	0.389	2.004



STORM DRAINAGE PLAN & DESIGN SHEET

SCHEDULE 'C' 1 of 1

Technical drawing of a mechanical assembly, likely a pump or engine component, showing a cross-section with various parts labeled with letters and numbers. The drawing includes a vertical shaft, a horizontal shaft, and a circular component on the left. A legend at the bottom lists the parts and their corresponding labels.

Legend:

- 1. Shaft
- 2. Piston
- 3. Connecting Rod
- 4. Crankshaft
- 5. Flywheel
- 6. Valve
- 7. Camshaft
- 8. Piston Ring
- 9. Oil Pan
- 10. Oil Pump
- 11. Water Pump
- 12. Fan
- 13. Belt
- 14. Pulley
- 15. Timing Belt
- 16. Timing Chain
- 17. Timing Cover
- 18. Timing Chain Guide
- 19. Timing Chain Tensioner
- 20. Timing Chain Sprocket
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- 98. Timing Chain Sprocket
- 99. Timing Chain Sprocket
- 100. Timing Chain Sprocket

11	PLATE NO NEW CONCRETE AND REINFORCED	YES
10	POURING CONCRETE REINFORCED CONCRETE AND	YES
9	REINFORCED CONCRETE AND REINFORCED	YES
8	REINFORCED CONCRETE AND REINFORCED	YES
7	REINFORCED CONCRETE AND REINFORCED	YES
6	REINFORCED CONCRETE AND REINFORCED	YES
5	REINFORCED CONCRETE AND REINFORCED	YES
4	REINFORCED CONCRETE AND REINFORCED	YES
3	REINFORCED CONCRETE AND REINFORCED	YES
2	REINFORCED CONCRETE AND REINFORCED	YES
1	REINFORCED CONCRETE AND REINFORCED	YES

A COLETTI & ASSOCIATES
ENGINEERS
(519) 652-9915 or 652-9948
105 MEADOWBROOKE DRIVE SUITE 106
LONDON, Ontario, N6L 1G4

SHEET TITLE:
SITE PLAN
SERVICING/GRADING PLAN

LAND USE DATA

EXISTING BUILDING AREA 30,343 SF

PROPOSED ADDITION AREA 77,000 SF

TOTAL BUILDING AREA 47,343 SF

SITE AREA 170,000 SF

BUILDING COVERAGE 24.5%

PARKING

REQUIRED RATIO 1400 SPACES, 1000 SF PER 55 SPACES

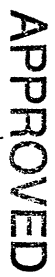
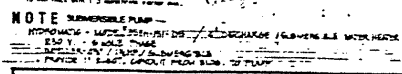
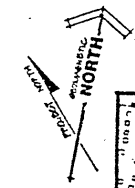
REQUIRED SPACES 340 SPACES

PROVIDED RATIO 1400 SPACES, 1000 SF PER 55 SPACES

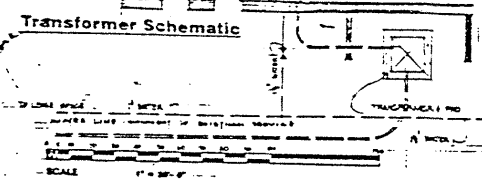
PROVIDED SPACES 268

EXISTING GRADES 100.0

PROPOSED GRADES 100.0



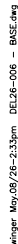
20.05.08
Date



NOTE:
THE ABOVE INFORMATION SHALL
REMAIN UNCLASSIFIED AND CONFIDENTIAL
UNLESS IT IS PROVEN OTHERWISE
AND SHOULD BE DECLASSIFIED
AND DOWNGRADED TO CONFIDENTIAL
DATE: 10/10/00

Appendix B: Preliminary Engineering Drawings

- Preliminary Servicing Plan
- Preliminary Grading Plan



Appendix C: Water Calculations

- Water Demand Calculations
- Fire Flow Calculations

DEL26-006 - Notre Dame Residential
Preliminary Water Demand Calculations

Date: May 2026
Prepared by: Shannon Palmer
Checked by: Troy Winger, P.Eng.

Proposed Development Demands							
Land Use Designation	Area (m ²)	People Per Unit ¹	No. of Units	Population	Average Day Demand (L/s)	Max Day Demand (L/s)	Peak Hour Demand (L/s)
Building A	567	2.4	21	51	0.15	0.53	1.17
Building B	486	2.4	18	44	0.13	0.45	1.01
Building C	406	2.4	15	36	0.11	0.37	0.83
Proposed Totals	1459		54	130	0.39	1.37	3.04

Notes:

¹ Obtained from City of London Design Specifications and Requirements Manual - Section 7 table 7-1 (January, 2026)

Design Criteria:

Low Density Residential	3	p/unit
Medium Density Residential	2.4	p/unit
High Density Residential	1.6	p/unit
Average Day Domestic Demand =	255	L/person/day
ADD= Pop x Avg Day Domestic Demand		

Peaking Factors:

Max Day	3.5
Peak Hour	7.8

FIRE FLOW WATERMAIN DEMAND CALCULATIONS - UNSPRINKLERED BUILDING
DEL26-006 Notre Dame Residential

Date: May 2026
 By: Shannon Palmer

Checked: Troy Winger, P.Eng



CALCULATE FIRE FLOW DEMAND:

Water supply for fire fighting of an unsprinklered building is determined using OBC A-3.2.5.7.

Occupancy Classification = **Group C- Residential Occupancy**

Type of Construction = **combustible construction. Floor assemblies are fire separations but with no fire-resistance rating. Roof assemblies, mezzanines, load bearing walls, columns and arches do not have a fire-resistance rating.**

BUILDING A

Minimum supply of water = $Q = K \cdot V \cdot S_{TOT}$

K = water supply coefficient = see Table 1 =

23

V = total volume of building in m^3 =

3988.2

S_{TOT} = spatial coefficient of all sides = $1.0 + [S_{side 1} + S_{side 2} + S_{side 3} + \dots \text{etc.}]$

Building Footprint = 567.0 m^2
 Average Height = 5.9 m

Roof Footprint = 567.0 m^2
 Average Height = 2.8 m

	Separation Distance	Spatial Coeff.
N Side	>10	0.00
E Side	5.6	0.44
S Side	5.3	0.47
W Side	>10	0.00

$$S_{tot} = 1.0 + [0 + 0.44 + 0.47 + 0] = 1.91$$

$$Q = 175203.4 \text{ L}$$

In Table 2, required minimum water supply flow rate =

5400 L/min =

90 L/s =

1427 USGPM

BUILDING B

Minimum supply of water = $Q = K \cdot V \cdot S_{TOT}$

K = water supply coefficient = see Table 1 =

23

V = total volume of building in m^3 =

3626.8

S_{TOT} = spatial coefficient of all sides = $1.0 + [S_{side 1} + S_{side 2} + S_{side 3} + \dots \text{etc.}]$

Building Footprint = 486.0 m^2
 Average Height = 5.9 m

Roof Footprint = 486.0 m^2
 Average Height = 2.8 m

	Separation Distance	Spatial Coeff.
N Side	5.3	0.47
E Side	>10	0.00
S Side	>10	0.00
W Side	>10	0.00

$$S_{tot} = 1.0 + [0.47 + 0 + 0 + 0] = 1.47$$

$$Q = 122622.6 \text{ L}$$

In Table 2, required minimum water supply flow rate =

3600 L/min =

60 L/s =

951 USGPM

BUILDING C

Minimum supply of water = $Q = K \cdot V \cdot S_{TOT}$

K = water supply coefficient = see Table 1 =

23

V = total volume of building in m^3 =

2925.2

S_{TOT} = spatial coefficient of all sides = $1.0 + [S_{side 1} + S_{side 2} + S_{side 3} + \dots \text{etc.}]$

Building Footprint = 406.0 m^2
 Average Height = 5.9 m

Roof Footprint = 406.0 m^2
 Average Height = 2.8 m

	Separation Distance	Spatial Coeff.
N Side	>10	0.00
E Side	>10	0.00
S Side	>10	0.00
W Side	5.6	0.44

$$S_{tot} = 1.0 + [0 + 0 + 0 + 0.44] = 1.44$$

$$Q = 96883.9 \text{ L}$$

In Table 2, required minimum water supply flow rate =

2700 L/min =

45 L/s =

713 USGPM

TABLE 2 - OBC Div. B - A-3.2.5.7

$Q \leq 108,000\text{L}$	2700
$108,000\text{L} \leq Q \leq 135,000\text{L}$	3600
$135,000\text{L} \leq Q \leq 162,000\text{L}$	4500
$162,000\text{L} \leq Q \leq 190,000\text{L}$	5400
$190,000\text{L} \leq Q \leq 270,000\text{L}$	6300
$270,000\text{L} \leq Q$	9000

Appendix D: Sanitary Calculations

Existing Notre Dame Drive 200mm Municipal Sanitary Service Capacity				
Pipe Size (mm)	Roughness (n)	Pipe Slope (%)	Velocity (m/s)	Flow Cap. (l/s)
200	0.013	0.45	0.700	22.00

Allocated Flows per Current Zoning (Commercial)					
Area (Ha)	Population ¹	Average Daily Flows (L/s)	Infiltration (L/s)	Peaking Factor (M)	Total Peak Flows (L/s)
0.67	67	0.18	0.07	4.29	0.91

Proposed Flows								
Land Use Designation	Area (Ha)	People Per Unit ²	No. of Units	Population	Average Daily Flows (L/s)	Infiltration (L/s)	Peaking Factor (M)	Total Peak Flows (L/s)
Proposed Development	0.67	2.4	54	130	0.35	0.07	4.21	1.67
Proposed Totals	0.67		54	130				1.67

Notes:

¹ Following maximum population density allowed for current zoning (Commercial)

² Taken from City of London Design Specifications and Requirements Manual- Section 3 (January 2026).

Additional Flow Conveyed to Existing Municipal 200 mm Sewer		
Flow (L/s)	% of pipe capacity	
Allocated Flow	0.91	4.13%
Proposed Flow	1.67	7.57%
Additional Flow	0.76	3.44%

Proposed Private Sanitary Service Capacity				
Pipe Size (mm)	Roughness (n)	Pipe Slope (%)	Velocity (m/s)	Flow Cap. (l/s)
200	0.013	1.00	1.044	32.80

Additional Flow Conveyed to Proposed 200 mm Private Sewer		
Flow (L/s)	% of pipe capacity	
Allocated Flow	0.91	2.77%
Proposed Flow	1.67	5.08%
Additional Flow	0.76	2.31%

Design Criteria:

Low Density Residential	3	p/unit
Medium Density Residential	2.4	p/unit
High Density Residential	1.6	p/unit
Commercial	100	p/Ha
Residential Design Flow =	230	L/person/day
Res. Peaking Factor (M) =	$1 + 14 / (4 + \sqrt{P})$	
Infiltration Rate =	0.100	L/ha/second
Uncertain Development Factor =	1.100	

Appendix E: SWM Figures and Calculations

- Existing Conditions Drainage Figure
- Allowable Drainage Figure
- Uniform Pipe Capacity
- Summary of Flows
- Post-Development Drainage Figure

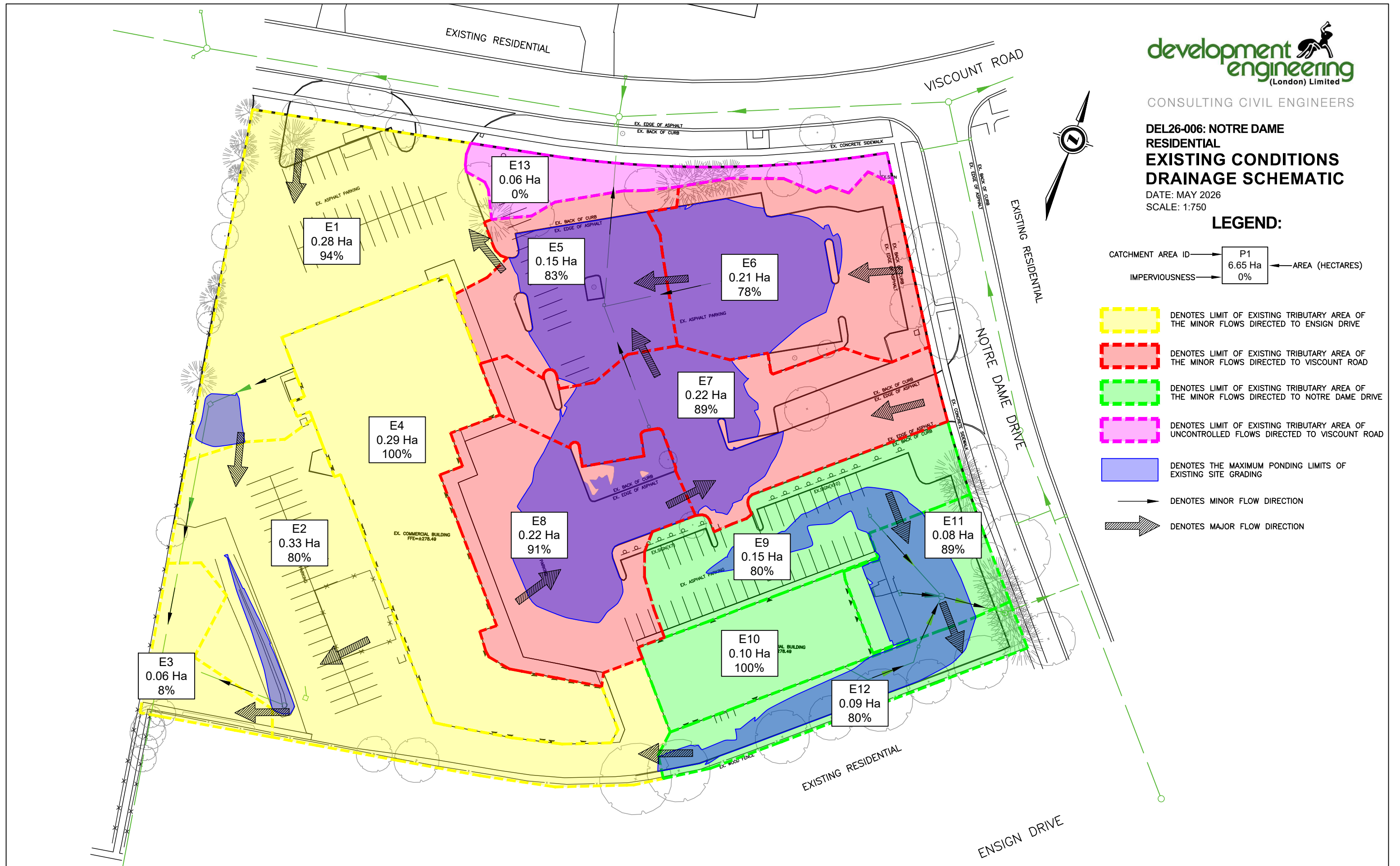
**DEL26-006: NOTRE DAME
RESIDENTIAL
EXISTING CONDITIONS
DRAINAGE SCHEMATIC**

DATE: MAY 2026
SCALE: 1:750

LEGEND:

CATCHMENT AREA ID	P1	AREA (HECTARES)
IMPERVIOUSNESS	6.65 Ha 0%	

- DENOTES LIMIT OF EXISTING TRIBUTARY AREA OF THE MINOR FLOWS DIRECTED TO ENSIGN DRIVE
- DENOTES LIMIT OF EXISTING TRIBUTARY AREA OF THE MINOR FLOWS DIRECTED TO VISCOUNT ROAD
- DENOTES LIMIT OF EXISTING TRIBUTARY AREA OF THE MINOR FLOWS DIRECTED TO NOTRE DAME DRIVE
- DENOTES LIMIT OF EXISTING TRIBUTARY AREA OF UNCONTROLLED FLOWS DIRECTED TO VISCOUNT ROAD
- DENOTES THE MAXIMUM PONDING LIMITS OF EXISTING SITE GRADING
- DENOTES MINOR FLOW DIRECTION
- DENOTES MAJOR FLOW DIRECTION



CATCHMENT AREA ID → P1
6.65 Ha ← AREA (HECTARES)

- DENOTES LIMIT OF CATCHMENT AREA TRIBUTARY TO THE EX. 92.0m SEWER BETWEEN EX.MH C-11 TO EX.MH C-10 ON VISCOUNT ROAD
- DENOTES MINOR FLOW DIRECTION
- DENOTES MAJOR FLOW DIRECTION



Allowable Flow Analysis to Existing Sewer with Viscount Road				
Uniform Flow Capacity - Existing Storm Pipe from Ex. MH C-11 to Ex. MH C-10 on Viscount Road				
Pipe Diameter (mm)	Roughness (n)	Pipe Slope (%)	Velocity (m/s)	Flow Capacity (L/s)
450	0.013	0.36	1.076	171.06

Note: Mannings Equation (City of London's DSRM Section 5.10) was utilized to calculate the Uniform Flow Capacity.

Total Area of flows				
Subcatchment	Appox. Tributary Area (m ²)	Appox. Tributary Area (Ha)	Allocation of Total Tributary Area	Allowable Flow (L/s)
A1 - Ex. ROW	2,043	0.20	14%	23.23
A2 - Ex. Residential	4,435	0.44	29%	50.44
A3 - Ex. 725 Notre Dame Drive Site	8,563	0.86	57%	97.39
Total	15,041	1.50	100%	171.06

SUMMARY OF FLOWS							
Existing Conditions =				Proposed Conditions =			
Runoff Coefficient =				Runoff Coefficient =			
% Imperviousness =				% Imperviousness =			
2.21				2.21			
0.78				0.81			
83%				87%			
Storm Event	Existing Conditions				Allowable Conditions	Post Development	
	Peak Minor Flow to Notre Dame Drive (L/s)	Peak Minor Flow to Viscount Road (L/s)	Peak Minor Flow to Ensign Drive(L/s)	Peak Major Flow to Ensign Drive (L/s)	Allowable Minor Flows to Viscount Drive (L/s)	Post Development Area Peak Runoff (L/s)	Approx. On-Site Storage Volume Required to meet Allowable Minor Flows to Viscount Drive (m ³)
2 year	77	120	180	0	63	153	78
5 year	83	163	251	0	97	218	103
10 year	86	191	298	0	123	262	120
25 year	88	228	359	0	155	322	139
50 year	90	256	403	0	180	366	153
100 year	91	286	439	0	205	410	167

*Allocated Outflow as per the Allowable Flow Analysis to Existing Sewer with Viscount Road

**DEL26-006: NOTRE DAME
RESIDENTIAL
POST DEVELOPMENT
DRAINAGE SCHEMATIC**

DATE: MAY 2026
SCALE: 1:750

LEGEND:

