



January 19, 2024

MTE File No.: C553717-100

Development Services
City of London
300 Dufferin Avenue
London, ON N6A 4L9

Attention: Paul Dilosa

RE: Functional Servicing Report - 359 Wellington Road

This report has been prepared to support the development at 359 Wellington Road in the City of London in addressing site services for the proposed site.

Pre-Development Conditions

The subject lands are located within Oxbow Creek – Thames River watershed. Subject land drains northwest towards Baseline Road.

Post Development Conditions

The Site plan is approximately 0.18 ha in size. The site plan consists of a residential apartment with 250 units and landscaped areas.

Existing Municipal Services

Watermain

There is one existing 200mmØ PVC watermain on Baseline Road north of the subject site. Two watermain on Wellington Road, a 250mmØ PVC and a 900mmØ concrete watermain.

Sanitary Sewer

There is an existing 300mmØ sanitary sewer on Baseline Road conveying flows west towards Balderstone Avenue and a 300mmØ sanitary sewer on Wellington Road conveying flows north.

Storm Sewer

There is an existing 975mmØ storm sewer sewer on Baseline Road conveying flows east towards Wellington Road with a 300mmØ storm PDC stub to the subject site property line.

Water Supply Services

Water supply will be provided with a connection to the 250mmØ watermain on Wellington Road. Additional fire hydrant may require along Wellington Road if the fire department connection (Siamese connection) is located on the east side of the building. This is due to the existing hydrant on the north side of Baseline Road not being within the required 45m unobstructed path of travel. Further water modeling to be complete during detailed design stage to confirm sufficient flows.

Sanitary Servicing

As per the as-constructed Base Line Road East, City of London File No. 27971, the proposed development property has an assumed existing 100mm sanitary private drain connection which will be capped and abandoned, a new sanitary connection is proposed for the development.

It is recommended that subject site connects to the 300mmØ sanitary sewer on Wellington Road. The existing sanitary sewer was designed in 1992 (reference City of London DWG File No.11956) with the subject site only partially included in the design area. Additional population has been included in attached capacity analysis.

The proposed development is a residential high-rise building, which corresponds to a population of 400 people using current City of London standards.

Proposed Population

Description	Floor Area (m ²)	Reference	Rate	Daily Flow (L/day)	Equivalent Pop. (based on C.o.L. flow 230 L/cap/day)
Residential Units (250 units)		C.O.L. Design Specifications	1.6 people/ unit	-	400
				Total=	400

Based on information obtained from the City, MTE completed a capacity analysis of the sewers on Wellington Road fronting the proposed site. The Wellington Road Design Sheet, dated June 21, 2007, shows a sewage flow of 45.5L/s downstream of the site using a sewage flow rate of 432 L/Cap/Day. The updated flows downstream of the proposed site is 29.0L/s based on the updated design sheet with a population of 400 from the proposed site in place of the previous allocated 22 people and updated sewage flow rate of 230L/Cap/Day, based on current City of London Standards. The proposed development will increase anticipated peak flows in the downstream sewers by a maximum of 4.7 L/s, but due to the updated flow rate this shows a decrease of 16.5L/s. Based on the analysis, the existing sewers have sufficient capacity to convey the expected flow from the proposed development. Please see downstream analysis in the attachments.

Stormwater Management Considerations

Criteria

The stormwater management design criteria for the subject site, as established by the City of London are as follows:

- Ensure on-site controls are designed to reduce/match existing peak flows from the 2 through 100-year return period storms.
- Implementation of water quality controls.

Methodology

In order to successfully complete the stormwater management design for this site, the following specific tasks were undertaken:

- Calculated the allowable release rates using Rational Method based on the 5-year predevelopment conditions.
- Determine the Site's runoff coefficient.
- Calculated post-development runoff using Rational Method.
- Sized orifice to attain the required storage for runoff control.

Quantity Controls

The site is a tributary of an existing 975mm storm sewer on Baseline Road with a runoff coefficient of 0.80 per City of London as-constructed drawing No. 27963. MTE completed area take off measurements based on the proposed site plan. Surfaces and cumulative areas are summarized as follows:

Impervious Area:	1634.6 m ²
Pervious Area:	180.40m ²
Total:	1815.00 m ²

Applying a runoff coefficient of 0.2 for pervious surfaces and 0.9 for the impervious surfaces, a weighted runoff coefficient of 0.83 was calculated for the site.

The proposed development composite C factor calculated as 0.83 is higher than the accepted runoff coefficient for the site; therefore, onsite SWM quantity controls are required. Based on preliminary calculations the allowable release rate for 2-year event is 28.64 L/s. It is suggested the flow rate to be controlled through an orifice plate installed on the outlet of the most downstream storm maintenance holes on site.

As the proposed coefficient exceeds the design, on-site storage will be required to attenuate flow from the 2 through 100-year events to design levels. A preliminary extended rational analysis method was used to determine the maximum storage volume which would be required to attenuate runoff to the target release rate. The analysis showed approximately 30.60m³ of storage volume will be required. Grading shall be designed to safely convey runoff from the storm event exceeding the 100-year storm to the designated overland flow route northwest of the site to Baseline Road. The use of parking lot storage, roof top flow controls, and/or underground storm tanks are recommended to provide the required quantity controls.

Quality Controls

As per section 6.2.1.3 of the City of London Design Specifications and Requirements Manual the proposed development has less than 30 proposed at-grade parking spaces therefore, no water quality controls are required for the development.

We trust this meets your requirements. Should you have any questions or require anything further, please do not hesitate to contact the undersigned.

Regards,
MTE Consultants Inc



Derrick Rice, P.Eng.
Project Manager
519-204-6510 ext. 2265
drice@mte85.com

Attached

- Existing Sanitary Design Sheet (Wellington Road)
- Proposed Sanitary Design Sheet (Wellington Road)
- Storm Water Management Calculations
- City of London As-Built Drawings
- Preliminary Servicing Drawing
- Preliminary Servicing Drawing

M:\50399\200\Reports\50399-100_swm report.docx

RESIDENTIAL POPULATION DENSITIES

THE FOLLOWING POPULATION ALLOWANCES WILL APPLY WHEN DESIGNING SANITARY SEWERS:

(A) HECTARE BASIS

- LOW DENSITY (SINGLE FAMILY/SEMI-DETACHED) = 30 UNITS/HA @ 3 PEOPLE/UNIT
- MEDIUM DENSITY (TOWNHOUSES) = 75 UNITS/HA @ 2.4 PEOPLE/UNIT
- HIGH DENSITY (APARTMENTS) = 150-300 UNITS/HA @ 1.6 PEOPLE/UNIT
- COMMERCIAL / INSTITUTIONAL / CHURCH = 100 PEOPLE/HA
- ELEMENTARY SCHOOL = 400 PEOPLE
- SECONDARY SCHOOL = 1500 PEOPLE

(B) LOT BASIS

- SINGLE FAMILY = 3 PEOPLE
- DUPLEX / SEMI = 6 PEOPLE

SANITARY SEWER DESIGN SHEET

CITY OF LONDON

CITY ENGINEER'S DEPARTMENT

DATE : **June 21, 2007**

DESIGNED BY : **R.A.Lucas, C.E.T.**

CHECKED BY : **D.J.Whitney, M. Eng., P. Eng.**

FILE No :

SHEET : **1 of 1**

PROJECT NAME : **COMMISSIONERS ROAD TO BASELINE ROAD**

DESIGN CRITERIA
AREA A SEWAGE = 250 L/DAY/CAP
AREA B to 10 SEWAGE = 432 L/DAY/CAP
 INFILTRATION = 8640 L/HA/DAY
 PEAKING FACTOR = HARMON FORMULA

= 0.0030 x 1.1 l/s/person
 = 0.0050 x 1.1 l/s/person
 = infilt. of 0.100 l/s/ha
 $M = 1 + \frac{14}{4 + P^{0.5}}$

LOCATION				AREA (HECTARES)			POPULATION					SEWAGE FLOW				SEWER DESIGN					PROFILE		CAPACITY	
AREA No.	STREET	FROM M.H.	TO M.H.	NET OR GROSS	DELTA AREA ha	TOTAL AREA ha	PER ha	PER LOT	No. OF LOTS	DELTA POP.	TOTAL POP.	M Min.2.0	SEWAGE l/s	INFILT. l/s	TOTAL l/s	DIA. mm	SLOPE %	VELOCITY n	VELOCITY m/s	CAP. l/s	LENGTH M	FALL IN SEWER	PERCENT USED	
A	655 WELLINGTON ROAD				0.19	0.19	100			19.00	19	4.38	0.27	0.02	0.29									
B	647 WELLINGTON ROAD				0.23	0.42	99			23.00	42	4.33	0.80	0.04	0.84									
A1	WELLINGTON ROAD	Exterio	MH 9		11.09	11.51	99			1098.00	1140	3.76	23.58	1.15	24.73	250	1.74	0.013	1.60	78.45	91.70	1.596	32%	
A2	WELLINGTON ROAD	MH 9	MH 8		3.11	3.11	99			308.00	308	4.07	6.89	0.31	7.20	200	2.00	0.013	1.48	46.39	14.50	0.290	16%	
A3	WELLINGTON ROAD	MH 8	MH 7		0.81	15.43	99			81.00	1529	3.67	30.86	1.54	32.40	250	4.35	0.013	2.53	124.03	41.20	1.792	26%	
A4	WELLINGTON ROAD	MH 7	MH 6		1.73	17.16	99			172.00	1701	3.64	34.05	1.72	35.77	250	4.35	0.013	2.53	124.03	90.00	3.915	29%	
A5	WELLINGTON ROAD	MH 6	MH 5		1.47	18.63	99			146.00	1847	3.61	36.67	1.86	38.53	300	0.50	0.013	0.97	68.38	91.00	0.455	56%	
A6	WELLINGTON ROAD	MH 5	MH 4		3.28	21.91	99			325.00	2172	3.56	42.53	2.19	44.72	300	1.15	0.013	1.47	103.70	93.80	1.079	43%	
A7	WELLINGTON ROAD	MH 4	MH 3		0.44	22.35	99			44.00	2216	3.55	43.27	2.24	45.51	300	1.28	0.013	1.55	109.41	84.30	1.079	42%	
A8	WELLINGTON ROAD	MH 3	MH A		5.64	27.99	99			559.00	2775	3.47	52.96	2.80	55.76	300	2.39	0.013	2.11	149.50	170.10	4.065	37%	
A9	WELLINGTON ROAD	EXT	MH A		4.65	4.65	82			382.00	382	4.03	8.47	0.47	8.94	200	1.00	0.013	1.04	32.80	100.00	1.000	27%	
A10	WELLINGTON ROAD	MH A	MH B		0.10	32.64	82			9.00	3166	3.42	59.55	3.26	62.81	250	2.00	0.013	1.71	84.10	100.00	2.000	75%	



359 Wellington Road
City of London

Project #: 53717-100
Date: 12/19/2023
Design By: JC
Checked By: DR
File: M:\53717\100\FSR\53717-100_design_sheet.xlsx

SANITARY SEWER DESIGN SHEET- PROPOSED

RESIDENTIAL COMMERCIAL AND INSTITUTIONAL POPULATION DENSITIES

THE FOLLOWING POPULATION ALLOWANCES WILL APPLY WHEN DESIGNING SANITARY SEWERS:

LOW DENSITY (SINGLE-FAMILY / SEMI-DETACHED)	=	30 UNITS / HECTARE @ 3 PEOPLE / UNIT
MEDIUM DENSITY (MULTI-FAMILY / TOWNHOUSE / ROWHOUSE)	=	75 UNITS / HECTARE @ 2.4 PEOPLE / UNIT
HIGH DENSITY (APARTMENTS)	=	150-300 UNITS / HECTARE @ 1.6 PEOPLE / UNIT
COMMERCIAL / INSTITUTIONAL	=	100 PEOPLE / HECTARE
SECONDARY SCHOOL	=	1500 PEOPLE
ELEMENTARY SCHOOL	=	600 PEOPLE

Design Parameters

SEWAGE =	230	L/Capita/Day
INFILTRATION =	8640	L/Ha/Day
PEAKING FACTOR=	1+(14/(4+(P^0.5)))	
Manning's "n"	0.013	
Min. Velocity =	0.6 m/s	
Max. Velocity =	4.5m/s (300-825mm) 6.0m/s (>900mm)	

LOCATION				AREA		POPULATION					SEWAGE FLOWS			SEWER DESIGN							
AREA No.	STREET	FROM MANHOLE	TO MANHOLE	DELTA HECTARE	TOTAL HECTARES	POP. PER HECTARE	PER LOT	NO. OF LOTS	DELTA POP.	TOTAL POP.	PEAKING FACTOR	INFILT L / s	SEWAGE L / s	Q TOTAL L / s	PIPE SIZE mm	n	SLOPE %	CAP L / s	VELOCITY m/s	LENGTH m	
A	655 Wellington Road	A	B	0.19	0.19	100.00			19	19	4.38	0.02	0.24	0.26							
B	647 Wellington Road	B	EXT 1	0.23	0.42	99.00			23	42	4.33	0.04	0.53	0.57							
A1	Wellington Road	EXT 1	MH 9	11.09	11.51	99.00			1098	1140	3.76	1.15	12.56	13.7	200	0.013	1.74	43.3	1.38	91.7	
A2	Wellington Road	MH 9	MH 8	3.11	14.62	99.00			308	1448	3.69	1.46	15.65	17.1	200	0.013	2.00	46.4	1.48	14.5	
A3	Wellington Road	MH 8	MH 7	0.81	15.43	99.00			81	1529	3.67	1.54	16.45	18.0	250	0.013	4.35	124.0	2.53	41.2	
A4	Wellington Road	MH 7	MH 6	1.73	17.16	99.00			172	1701	3.64	1.72	18.13	19.8	250	0.013	4.35	124.0	2.53	90.0	
A5	Wellington Road	MH 6	MH 5	1.47	18.63	99.00			146	1847	3.61	1.86	19.54	21.4	300	0.013	0.50	68.4	0.97	91.0	
A6	Wellington Road	MH 5	MH 4	3.28	21.91	99.00			325	2172	3.56	2.19	22.63	24.8	300	0.013	1.15	103.7	1.47	93.8	
A101	359 Wellington Road	A101	MH 4	0.22	0.22				400	400	4.02	0.02	4.71	4.7							
A7	Wellington Road	MH 4	MH 3	0.44	22.57	99.00			44	2616	3.49	2.26	26.75	29.0	300	0.013	1.25	108.1	1.53	84.3	
A8	Wellington Road	MH 3	MH A	5.64	28.21	99.00			559	3175	3.42	2.82	31.81	34.6	300	0.013	2.39	149.5	2.11	170.1	
A9	Wellington Road	EXT 2	MH A	4.65	4.65	82.00			382	382	4.03	0.47	4.51	5.0	200	0.013	1.00	32.8	1.04	100.0	
A10	Wellington Road	MH A	MH B	0.10	32.96	82.00			9	3566	3.38	3.30	35.27	38.6	250	0.013	2.00	84.1	1.71	100.0	



SWM Calculations

DATE: January 19, 2024
 JOB NO.: 53717-100

Client: LJM Developments
 Project: 359 Wellington Road
 Location: London, ON

DESIGN CONDITIONS

TOTAL DESIGN AREA (A1)

	Area (m ²)
Total Site Area:	1815.000
Building Area:	-
Concrete/Asphalt:	-
Landscaped/Open:	-
Totals:	1815.00
$C_{eq} = \text{Sum}(A \cdot C) / \text{Sum}(A) =$	0.80

2 Year Design Flows

C = 0.80
 **Time to concentration $t_c =$ 12.50 min
 Intensity, $i (@ t_c) =$ 70.95 mm/hr
 Post Development Flow, $Q_p = 2.78 \cdot C \cdot i \cdot A =$ 28.64 l/s

100 Year Design Flows

C = 0.80
 **Time to concentration $t_c =$ 12.50 min
 Intensity, $i (@ t_c) =$ 163.84 mm/hr
 Post Development Flow, $Q_p = 2.78 \cdot C \cdot i \cdot A =$ 66.14 l/s

POST-DEVELOPMENT CONDITIONS

POST-DEVELOPMENT CONTROLLED CATCHMENT A1

	Area (m ²)	C	A*C
Total Site Area:	1815.000		
Impervious	1634.60	0.9	1471.14
Pervious	180.40	0.2	36.08
Totals:	1815.00		1507.22
$C_{eq} = \text{Sum}(A \cdot C) / \text{Sum}(A) =$	0.83		

CITY OF LONDON - 3 HOUR CHICAGO RAINFALL DISTRIBUTION PARAMETERS*

Return Period (years)	A,B,C Parameters		
	A	B	C
25mm	538.850	6.331	0.809
2	754.360	6.011	0.810
5	1183.740	7.641	0.838
10	1574.382	9.025	0.860
25	2019.372	9.824	0.875
50	2270.665	9.984	0.876
100	2619.363	10.500	0.884
250	3048.220	10.030	0.888

*Intensity $i = A / (t+B)^C$ (mm/hr)

* Refer to the City of London Design Specification & Requirements Manual (DS&RM), Section 6.

RAINFALL DATA

Rainfall Data - London Rainfall Intensity Duration
2YR Storm Event

Duration (min.)	Intensity "i" (mm/hr)
5	108.07
10	79.80
15	64.03
30	41.39
60	25.33
120	15.01
180	10.95

100 Yr Stm Event

Duration (min.)	Intensity "i" (mm/hr)
5	232.24
10	181.39
15	149.56
30	99.36
60	60.87
120	35.32
180	25.28

STORAGE CALCULATIONS

Inflow, Q_i $2.78 \cdot C \cdot i \cdot A$ (l/s)	Volume In $Q_t \cdot t \cdot 60 / 1000$ (m^3)	Orifice Restrictor Outflow, Q_o (l/s)	Surface Outflow Q_o (l/s)	Allowable Release, Q_o (l/s)	Volume Out $Q_o \cdot t \cdot 60 / 1000$ (m^3)	Difference/ Storage (m^3)
45.26	13.58	28.64	0.00	28.64	8.59	4.99
33.42	20.05	28.64	0.00	28.64	17.18	2.87
26.82	24.13	28.64	0.00	28.64	25.78	-1.64
17.33	31.20	28.64	0.00	28.64	51.55	-20.35
10.61	38.19	28.64	0.00	28.64	103.10	-64.91
6.28	45.25	28.64	0.00	28.64	206.21	-160.96
4.58	49.51	28.64	0.00	28.64	309.31	-259.80
Max. Storage Volume (m^3) =						4.99

Inflow, Q_i $2.78 \cdot C \cdot i \cdot A$ (l/s)	Volume In $Q_t \cdot t \cdot 60 / 1000$ (m^3)	Orifice Restrictor Outflow, Q_o (l/s)	Surface Outflow Q_o (l/s)	Allowable Release, Q_o (l/s)	Volume Out $Q_o \cdot t \cdot 60 / 1000$ (m^3)	Difference/ Storage (m^3)
97.26	29.18	28.64	0.00	28.64	8.59	20.59
75.96	45.58	28.64	0.00	28.64	17.18	28.39
62.63	56.37	28.64	0.00	28.64	25.78	30.60
41.61	74.90	28.64	0.00	28.64	51.55	23.35
25.49	91.77	28.64	0.00	28.64	103.10	-11.33
14.79	106.49	28.64	0.00	28.64	206.21	-99.71
10.59	114.34	28.64	0.00	28.64	309.31	-194.97
Max. Storage Volume (m^3) =						30.60



No.	REVISIONS	DATE	BY	CONSULTANT OR DIVISION
1	REVISE RECORD DRAWING - ADD AREAS A & B	25/JUNE/07	RAL	

Whitney Engineering Inc.

562 Wellington Street East London ON N6A 3R5
 (519) 412-0012 Fax: (519) 422-6659

REGISTERED PROFESSIONAL ENGINEER
 25/06/07
 D.J. WHITNEY
 PROVINCE OF ONTARIO

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.	AUG. 1, 1990		
2 SEWER DESIGN: TRANSITION WIDTH OR AS NOTED				DRAWN S.F.L.			
3 REFERENCE B.M. No. ELEVATION				CHECKED J.L.C.	AS CONSTRUCTED	JAN. 1992	
				APPROVED F.R.B.			
				DATE APRIL 27 1990			

DS-Lea Associates Ltd.
 Consulting Engineers and Planners

PROJECT ENGINEER

ENGR'S STAMP

CORPORATION OF THE CITY OF LONDON

D. J. Whitney
 DIVISION HEAD
 CITY ENGINEER

SCALE 1" = 200'

Horizontal

Vertical

**WELLINGTON ROAD WIDENING
 COMMSSIONERS ROAD TO BASE LINE ROAD**

**SANITARY
 DRAINAGE AREA PLAN**

PROJECT No.	TS-1070
SHEET No.	3077-03
PLAN FILE No.	11,956

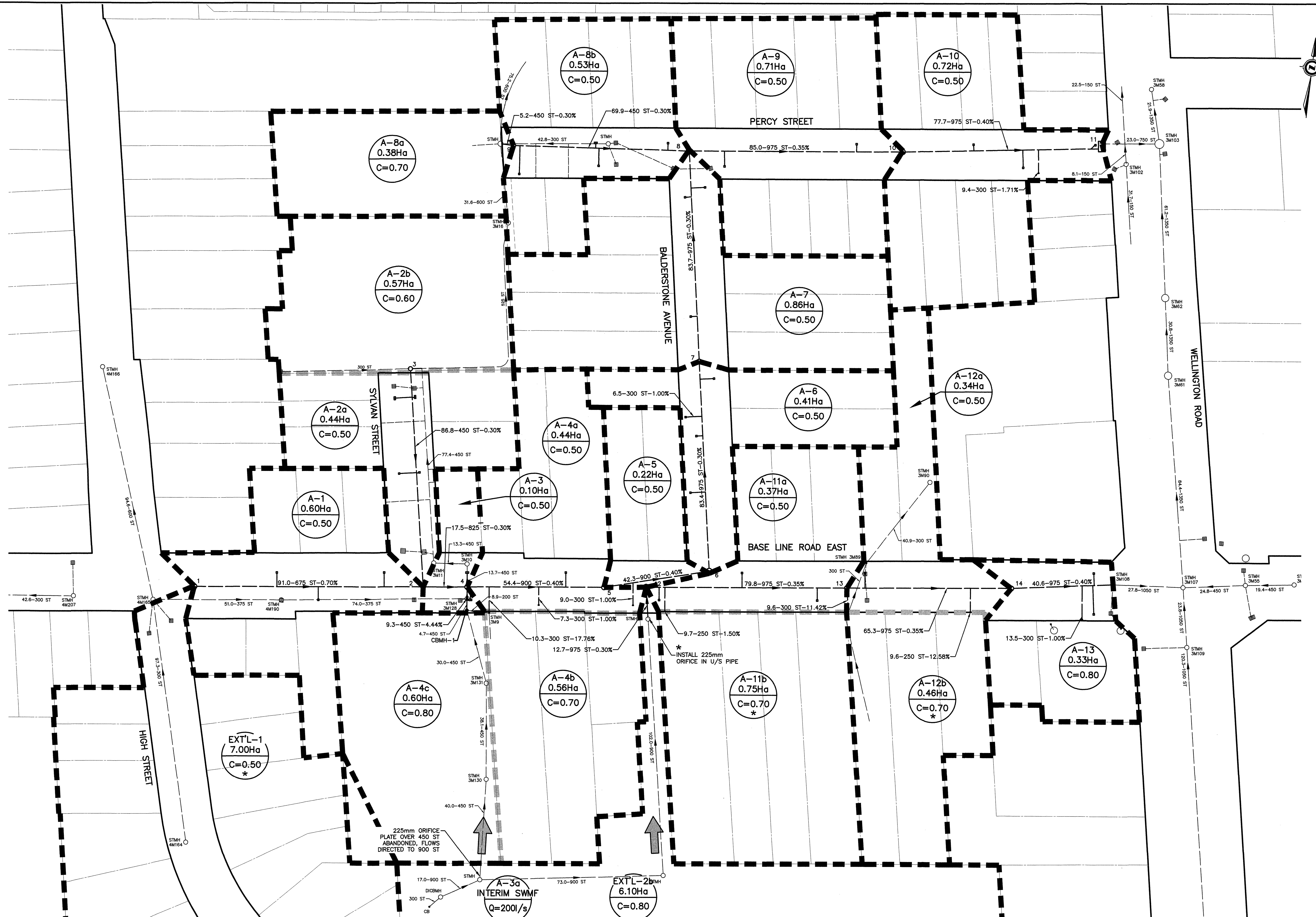
11,956

LEGEND

- 10 STORM MANHOLE
- 87.0-300 ST-0.54% STORM SEWER
- STMH EXISTING STORM MANHOLE
- 300 ST EXISTING STORM SEWER
- - - STORM CATCHMENT AREA
- A-1 1.06Ha STORM AREA No.
- - - STORM CATCHMENT AREA
- C=0.40 RUNOFF COEFFICIENT

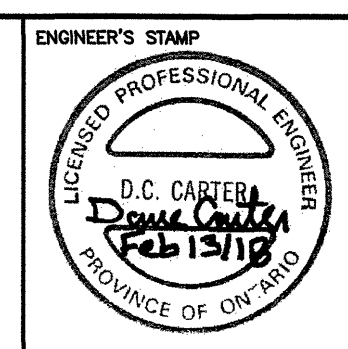
* THE REMOVAL OF THE 225mm ORIFICE AND/OR ANY REDEVELOPMENT WITHIN THE DRAINAGE AREA AND/OR THE INCLUSION OF HIGH STREET EXTERNAL AREA WILL NOT BE PERMITTED WITHOUT FURTHER DOWNSTREAM IMPROVEMENTS TO THE STORM SEWER SYSTEM ON WELLINGTON ROAD AS APPROVED BY THE CITY OF LONDON.

* AREA A-11b, A-12b, A-13b ARE CURRENTLY ASSIGNED A C FACTOR OF 0.4. THE ULTIMATE C FACTOR OF 0.7 SHALL NOT BE APPLIED UNTIL FURTHER DOWNSTREAM IMPROVEMENTS TO THE STORM SEWER SYSTEM ON WELLINGTON ROAD ARE COMPLETED AND APPROVAL IS GIVEN BY THE CITY ENGINEER.



P:\60514352_Col_Baseline_Rd_Reconstruction\900-CAD_GIS\910-CAD\05-MODELS\CIVIL\ASBUILTS\001A_Base_Line-STM_Area_Plan(RD).dwg

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION
			SAN/STM SEWERS, PDCS & MH'S	NOV. 2017	DESIGN	RJG	1. ISSUED FOR 90% REVIEW	OCT. 28/16	AECOM	
			WM AND WSC'S	NOV. 2017	DRAWN BY	RJG	2. ISSUED FOR TENDER	JAN. 4/17	AECOM	
			CURB AND GUTTER	NOV. 2017	CHECKED	JKK	3. RECORD DRAWING	JAN./18	AECOM	
			GRANULAR BASE	OCT. 2017	APPROVED	DCC				
			PAVING - I BASE	NOV. 2017	DATE	JULY 2016				
			- II BASE	MAY 2016						

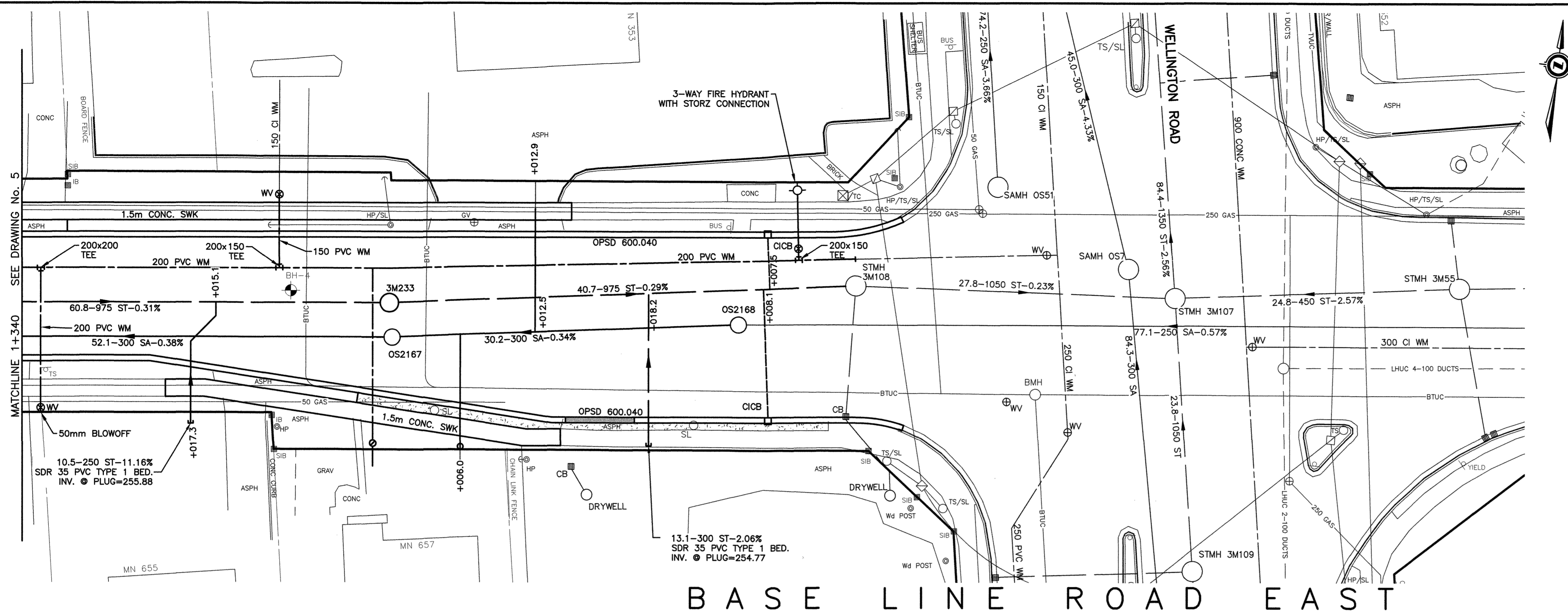


SCALE - 1 : 750

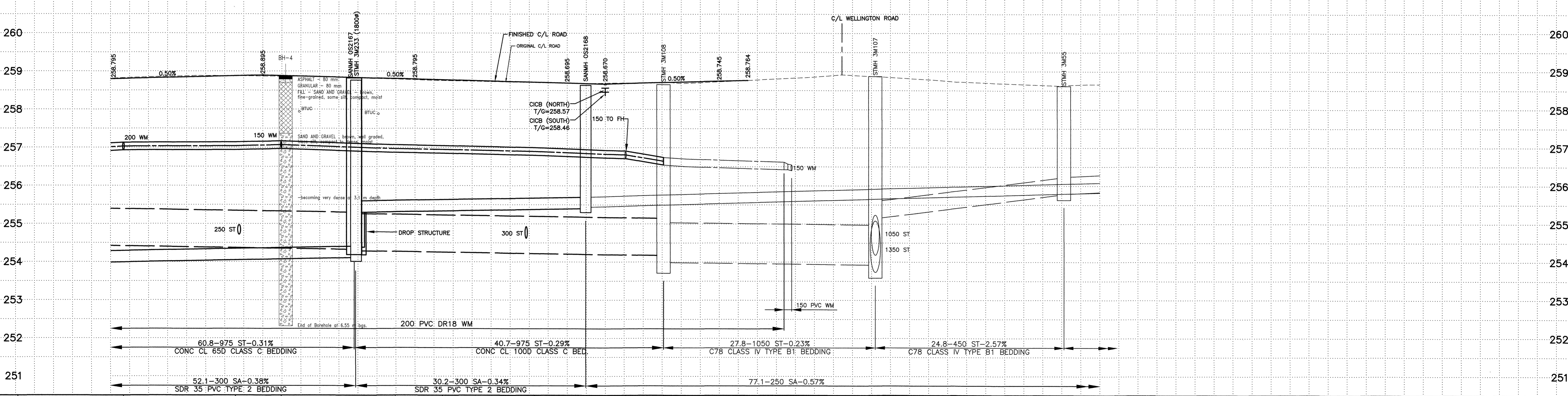
2017 INFRASTRUCTURE RENEWAL PROGRAM
CONTRACT 9
BASE LINE RD. EAST, BALDERSTONE AVE., PERCY ST. & SYLVAN ST.

STORM AREA PLAN

PROJECT No. 60514352
SHEET No. 1A
27963



BASE LINE ROAD EAST



STATION	SANITARY INVERT	STORM INVERT	C/L WATERMAIN ELEVATION
1+341.70			257.03
1+356.40			257.04
1+362.40			257.07
1+372.01	254.108W 254.322W	254.287E	256.97
1+372.25	255.283E	254.287E	
1+377.40			256.97
1+395.70			256.90
1+402.43	255.397W 255.442E		256.81
1+407.70			256.81
1+412.68			256.64
1+440.51	253.73N 253.92W 255.14E 254.18S		256.64
1+462.29			255.78W 255.78E

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
SANITARY, STORM SEWERS	11974	OCT. 1990	SM/STM SEWERS, PDCS & MH'S	NOV. 2017	DESIGN	RJG	1. ISSUED FOR 90% REVIEW	OCT. 28/16	AECOM
SANITARY, STORM SEWERS	11968, 11961	MAY 1991	WM AND MH'S	NOV. 2017	DRAWN BY	RJG	2. ISSUED FOR TENDER	JAN. 4/17	AECOM
SANITARY SEWERS	111056	JUNE 1974	CURB AND GUTTER	NOV. 2017	CHECKED	JRG	3. REVERSED AS PER STANTEC DWGS	JULY 12/17	AECOM
WATERMAIN	13998	JUNE 1995	GRANULAR BASE	OCT. 2017	APPROVED	DOC	4. AS BUILT	JAN/18	AECOM
WATERMAIN	11974	OCT. 1990	PAVING - II BASE	NOV. 2017	DATE	JULY 2016			
			- II BASE	MAY 2018					

ENGINEER'S STAMP

D.C. CARTER
David Carter
 Feb 13/18
 LICENSED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

CORPORATION OF THE CITY OF LONDON
 LONDON CANADA

SCALE

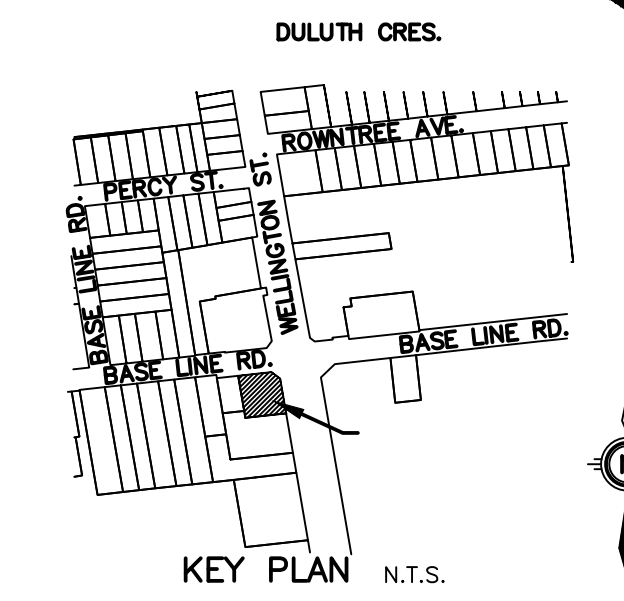
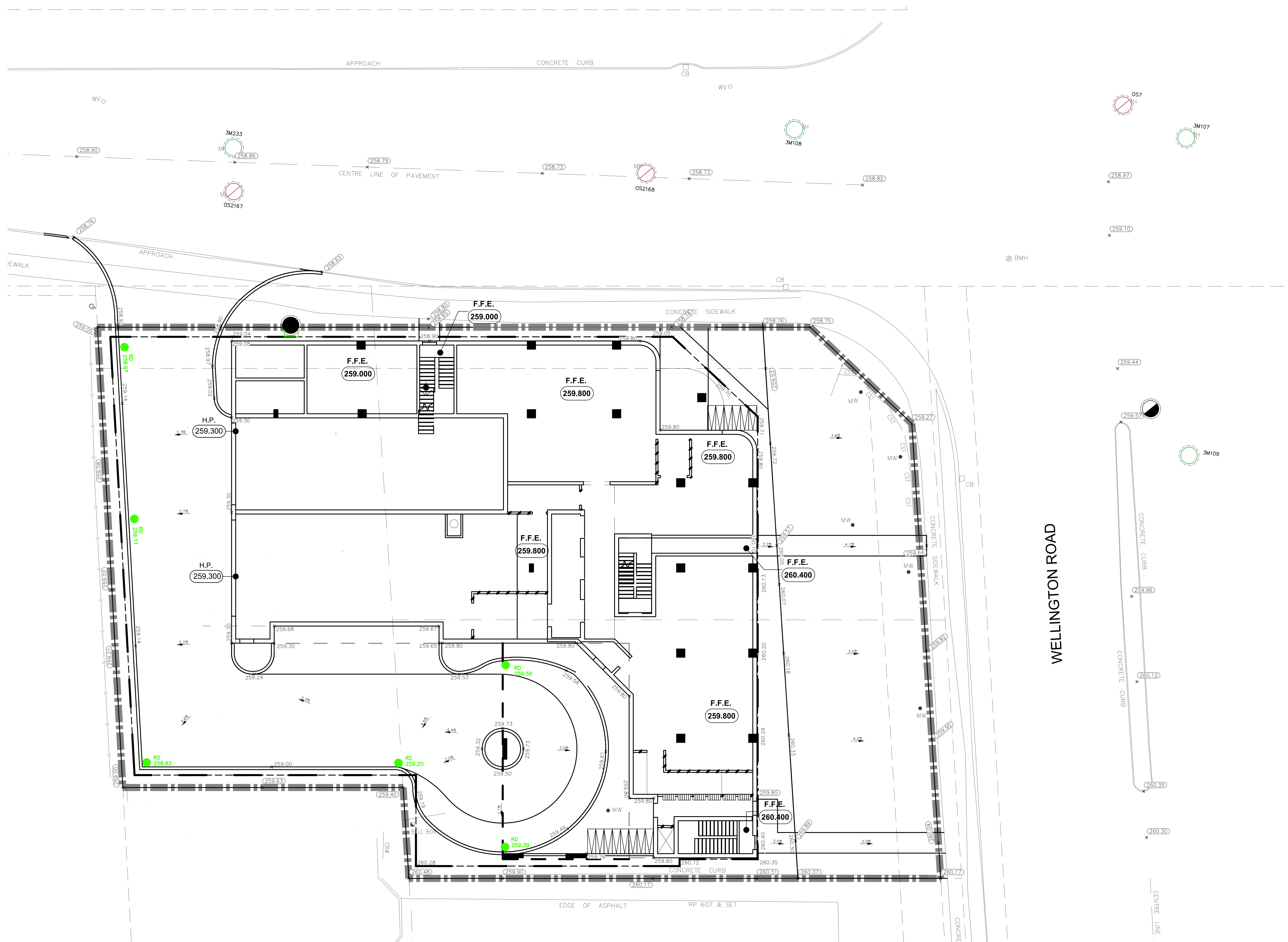
HORIZONTAL - 1:250
 2.5 0 5m

VERTICAL - 1:50
 0.5 0 1m

2017 INFRASTRUCTURE RENEWAL PROGRAM
CONTRACT 9
 BASE LINE RD. EAST, BALDERSTONE AVE., PERCY ST. & SYLVAN ST.

PROJECT No. **60514352**
 SHEET No. **6**
 P **27971**

BASE LINE ROAD EAST
 FROM 85M EAST OF BALDERSTONE AVENUE TO WELLINGTON ROAD



GEODETC BM ELEV. = 258.305m
 NAIL IN CONCRETE ON WELLINGTON ROAD, 16.0m NORTH OF THE CENTERLINE OF BASELINE ROAD, 15.0m WEST OF ENTERLINE OF WELLINGTON ROAD, SET IN THE SOUTHEAST CORNER OF THE CONCRETE BSE OF A LIGHT STANDARD.

SITE BENCHMARK ELEV. = m

- LEGEND**
- SITE BOUNDARY
 - EXISTING SANITARY SEWER
 - EXISTING WATERMAIN
 - EXISTING STORM SEWER
 - SANITARY SEWER
 - STORM SEWER
 - WATERMAIN
 - (259.06) EXISTING ELEVATIONS
 - (259.61) PROPOSED ELEVATIONS
 - PROPOSED GRADING
 - (RD 259.94) ROOF DRAIN



519-204-6510

CLIENT
 LJM DEVELOPMENTS

1860 APPLEBY LINE BURLINGTON, ON

PROJECT
 SITE PLAN

359 WELLINGTON ROAD LONDON, ON

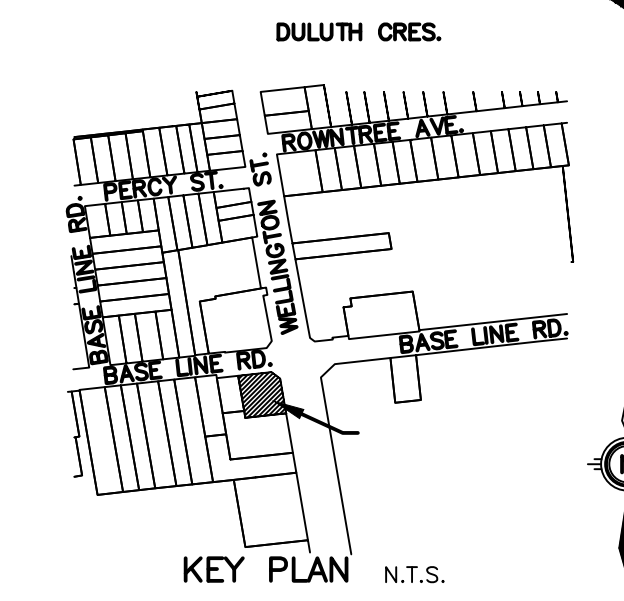
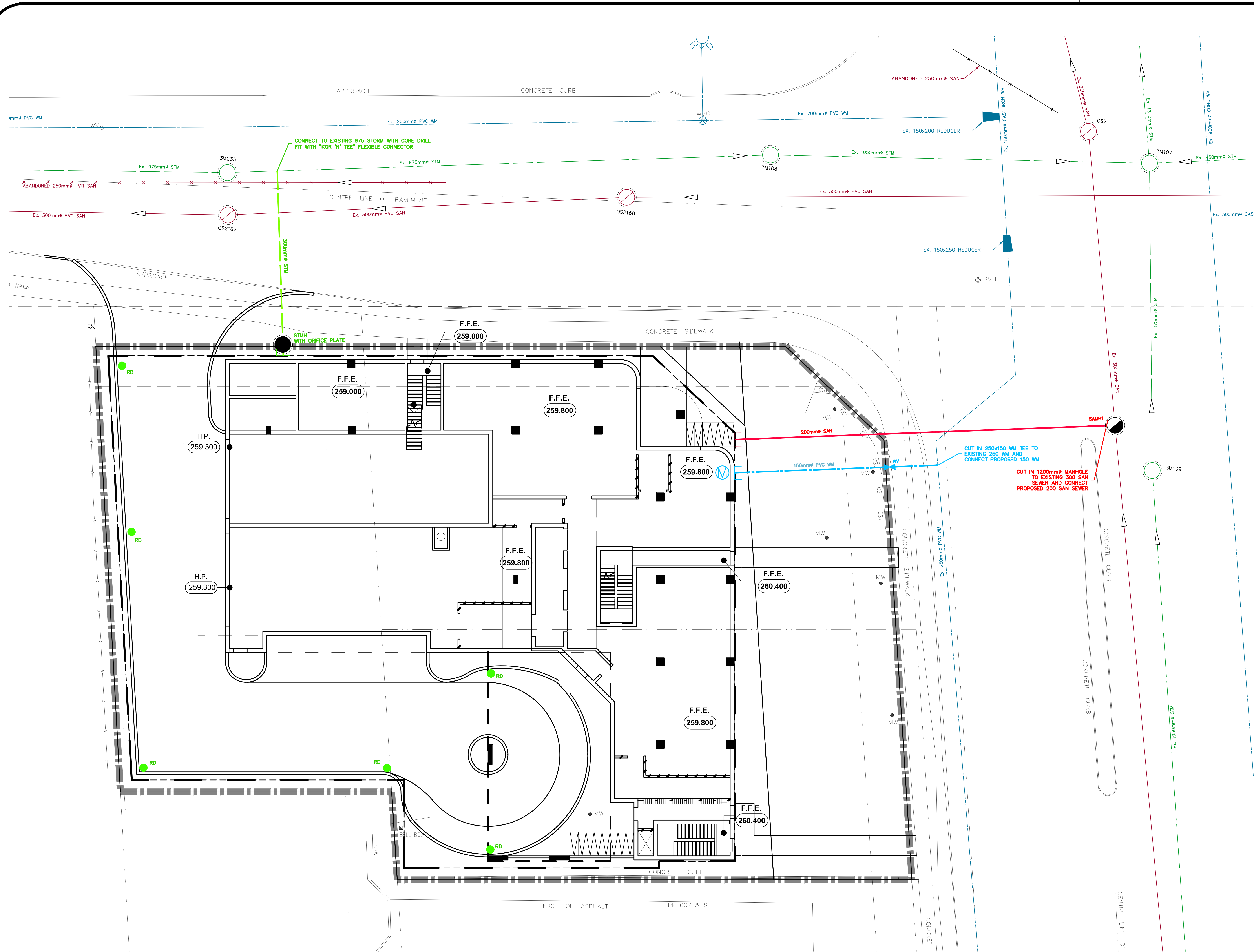
DRAWING
 PRELIMINARY GRADING PLAN

Project Manager	D. RICE	Project No.	53717-100
Design By	DF	Checked By	JC
Drawn By	DF	Checked By	DR
Surveyed By	MTE	Drawing No.	C1
Date	Dec.14/23		
Scale	1:125	Sheet	1 of 2

P:\53717\100\DWG\W1\53717-100_W1

MTE FILE PATH:

December 19, 2023 - 1:23:23 PM - Plotted By: Daniel Fedorchuk



GEODETIC BM ELEV. = 258.305m
 NAIL IN CONCRETE ON WELLINGTON ROAD, 16.0m NORTH OF THE CENTERLINE OF BASELINE ROAD, 15.0m WEST OF ENTERLINE OF WELLINGTON ROAD, SET IN THE SOUTHEAST CORNER OF THE CONCRETE BSE OF A LIGHT STANDARD.

SITE BENCHMARK ELEV. = m

- LEGEND**
- SITE BOUNDARY
 - EXISTING SANITARY SEWER
 - EXISTING WATERMAIN
 - EXISTING STORM SEWER
 - SANITARY SEWER
 - STORM SEWER
 - WATERMAIN
 - (259.06) EXISTING ELEVATIONS
 - × (259.61) PROPOSED ELEVATIONS
 - PROPOSED GRADING
 - (RD 259.94) ROOF DRAIN



519-204-6510

CLIENT
LJM DEVELOPMENTS

PROJECT
 1860 APPLEBY LINE BURLINGTON, ON
SITE PLAN

359 WELLINGTON ROAD LONDON, ON

DRAWING
PRELIMINARY SERVICING PLAN

Project Manager D. RICE	Project No. 53717-100
Design By DF	Checked By JC
Drawn By DF	Checked By DR
Surveyed By MTE	Drawing No. S1
Date Dec.14/23	
Scale 1:125	Sheet 1 of 2