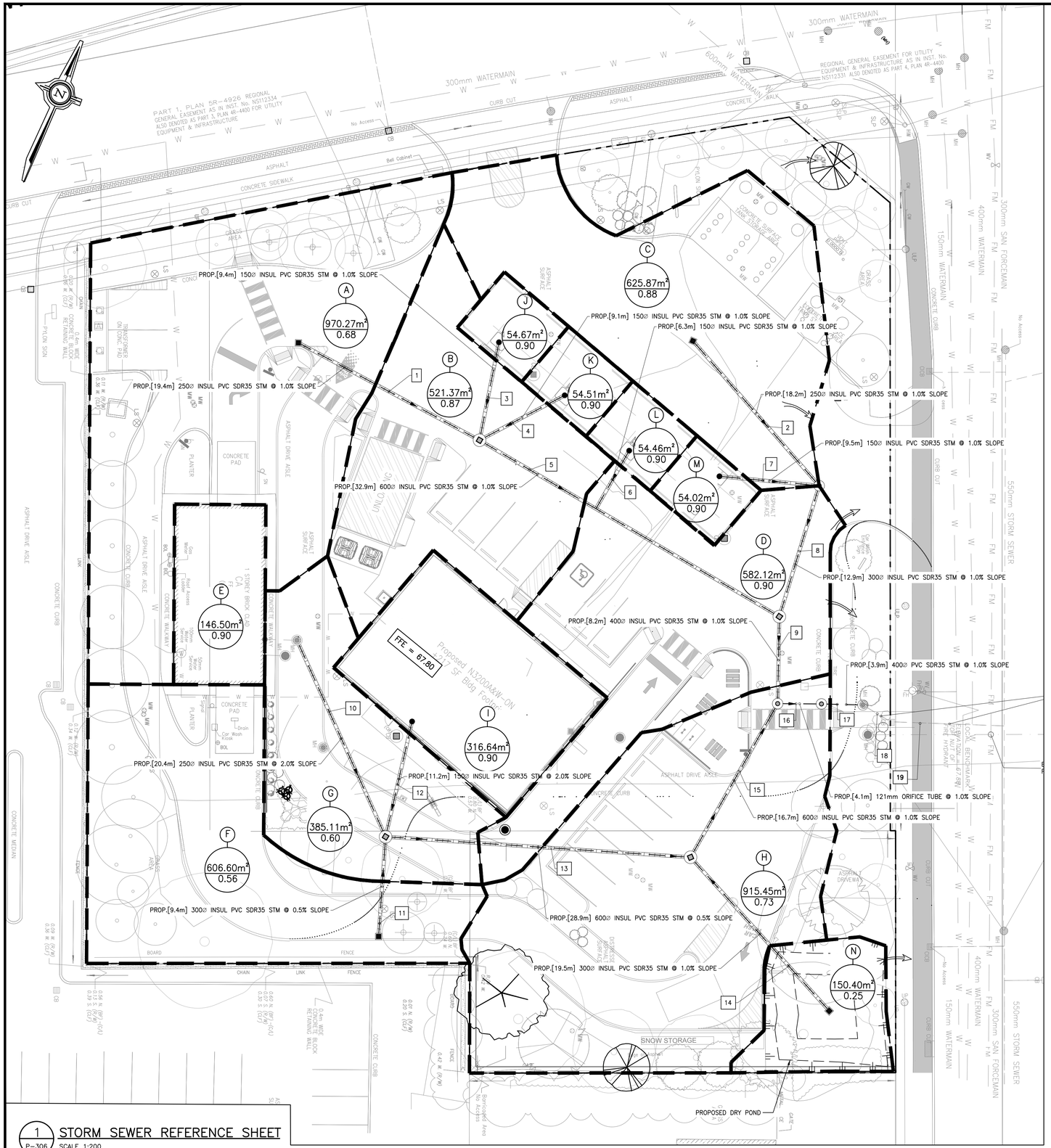


GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. DO NOT SCALE DRAWINGS.
3. REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGN ENGINEER AS APPLICABLE.
4. USE ONLY LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
5. DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE PROVINCIAL AND LOCAL BUILDING CODES LATEST EDITION.
6. ALL WORKS AND MATERIALS USED SHALL COMPLY AS REQUIRED BY THE BUILDING CODE LATEST EDITION.
7. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS & SPECIFICATIONS.
8. EVERYTHING IS TO BE CONSIDERED NEW UNLESS SPECIFIED EXISTING OTHERWISE.
9. RESPECTING ALL WORK IN THE CITY RIGHT-OF-WAY, THE CONTRACTOR IS TO PROVIDE AT LEAST 48 HOURS PRIOR NOTICE TO THE CITY OF OTTAWA PUBLIC WORKS DEPARTMENT STAFF.
10. A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORK DONE IN THE MUNICIPAL ROAD ALLOWANCE.
11. ALL RESTORATION OR WORK DONE IN THE ROAD ALLOWANCE MUST BE COMPLETED AS PER CITY STANDARD.
12. THE PERFORMANCE GUARANTEE WILL NOT BE REFUNDED BY THE CITY UNLESS THE WORKS HAVE BEEN INSPECTED BY CITY REPRESENTATIVES AND DEEMED TO BE COMPLETE AND SATISFACTORY

EX. UTILITIES NOTES

EXISTING INFORMATION REGARDING UTILITIES ALONG MONTREAL RD AND SHEFFORD RD TO BE SITE VERIFIED

INFORMATION REGARDING EXISTING STORM, SANITARY AND WATER EXTRACTED FROM BOUNDARY AND TOPOGRAPHIC SURVEY DATED 2024-11-23 BY NOTHERN LINK AND "SHEFFORD RD CH 0+000 TO 0+283 – DRG # 87-1268-6" DATED APRIL 1988 BY R.W. CONNELLY ASSOCIATED LTD.

SERVICES NOTES:

CONTACT LOCAL UTILITY AGENCIES (GAS, HYDRO & TELEPHONE) TO LOCATE THE EXISTING INCOMING SERVICES, AND USE THE SAME TO SERVE NEW INSTALLATIONS (IF APPLICABLE).

LEGEND

- EXISTING CATCHBASIN
- EXISTING MANHOLE
- NEW SANITARY MANHOLE
- NEW CATCHBASIN
- NEW C.B./M.H.
- NEW STORM MANHOLE
- PROPERTY LINE
- CATCHMENT AREA BOUNDARY
- OVERLAND FLOW
- PROPOSED STORM SEWER
- INSULATED PIPE
- A / 970.27m² / 0.68 — SUB-CATCHMENT AREA COEFFICIENT / SUB-CATCHMENT AREA / SUB-CATCHMENT RUNOFF COEFFICIENT



KEY PLAN
NTS

PLAN OF SURVEY OF
BLOCK 60 AND PART OF BLOCK 59
REGISTERED PLAN 4M-916
AND PART OF LOT 16
CONCESSION 1 (OTTAWA FRONT)
(GEOGRAPHIC TOWNSHIP OF GLOUCESTER)
CITY OF OTTAWA

BEARING

BEARINGS SHOWN HEREON ARE GRID AND ARE REFERRED TO THE WESTERLY LIMIT OF SHEFFORD ROAD AS DERIVED FROM OBSERVED CONTROL POINTS 'A' AND 'B' AND HAVING A BEARING OF N 21°22'10" W.

GRID BEARINGS ARE 3° MTM ZONE 09, CENTRAL MERIDIAN 76°30' WEST LONGITUDE, NAD83 (CSRS-2010.0).

NOTES

TREE CALIPER'S SHOWN HEREON ARE AS MEASURED BY OUR SURVEY CREW. CROWN DIMENSIONS ARE AS SHOWN ON THE FACE OF PLAN AND CONFIRMED VIA AERIAL REFERENCE DATA. THIS DATA HAS NOT BEEN CONFIRMED OR REVIEWED BY A PROFESSIONAL ARBORIST.

FENCES AND OCCUPATION ARE AS INDICATED ON THIS PLAN OF SURVEY.

OBSERVATIONS TO STRUCTURES ON THE SUBJECT LANDS HAVE BEEN MADE TO THE EXPOSED EXTERIOR CLADDING OF THE STRUCTURES AS SHOWN.

BEARING ROTATION:

FOR BEARING COMPARISONS, A ROTATION OF 00°39'40" COUNTER-CLOCKWISE WAS APPLIED TO PLAN P3.

BENCHMARK

ELEVATIONS SHOWN HEREON ARE GEODETIC AND WERE DERIVED FROM GNSS OBSERVATIONS TO OUR CONTROL NETWORK. ELEVATIONS ARE REFERENCED TO OUR LOCAL BENCHMARK:

LOCAL BENCHMARK:

THE TOP NUT OF A FIRE HYDRANT LOCATED APPROXIMATELY 14m SOUTH OF DRIVEWAY ENTRANCE TO THE SUBJECT LANDS ALONG SHEFFORD ROAD AND HAVING AN ELEVATION OF 67.88. (NAD83:CSRS:v7-2010, GEOID MODEL HT2.0-2002.0)

Pipe ID	LENGTH OF PIPE	Pipe Dia. (m)	Area (m2)	Perimeter (m)	Hydraulic Radius (m)	Slope (m/m)	Roughness Coefficient	Velocity (m/s)	Max. Pipe Flow (m3/s)	Actual Pipe Flow (m3/s)	Percentage of Flow	Servicing Catchment Structure
1	19.400	0.250	0.049	0.785	0.063	0.010	0.013	1.211	0.059	0.033	55%	CB1
2	18.200	0.250	0.049	0.785	0.063	0.010	0.013	1.211	0.059	0.027	46%	CB2
3	9.400	0.150	0.018	0.471	0.038	0.010	0.013	0.862	0.015	0.002	16%	CANOPY RWL 1
4	9.100	0.150	0.018	0.471	0.038	0.010	0.013	0.862	0.015	0.002	16%	CANOPY RWL 2
5	32.900	0.600	0.283	1.885	0.150	0.010	0.013	2.172	0.614	0.060	10%	CBMH1
6	6.300	0.150	0.018	0.471	0.038	0.010	0.013	0.862	0.015	0.002	16%	CANOPY RWL 3
7	9.500	0.150	0.018	0.471	0.038	0.010	0.013	0.862	0.015	0.002	16%	CANOPY RWL 4
8	12.900	0.300	0.071	0.942	0.075	0.010	0.013	1.368	0.097	0.030	31%	STM MH1
9	8.200	0.400	0.126	1.257	0.100	0.010	0.013	1.657	0.208	0.118	57%	CBMH2
10	20.400	0.250	0.049	0.785	0.063	0.020	0.013	1.713	0.084	0.007	8%	EX.STM MH1
11	9.400	0.300	0.071	0.942	0.075	0.005	0.013	0.967	0.068	0.017	25%	CB3
12	11.200	0.150	0.018	0.471	0.038	0.020	0.013	1.219	0.022	0.014	66%	BUILDING
13	28.900	0.600	0.283	1.885	0.150	0.005	0.013	1.536	0.434	0.049	11%	CBMH3
14	19.500	0.300	0.071	0.942	0.075	0.010	0.013	1.368	0.097	0.002	2%	CB4
15	16.700	0.600	0.283	1.885	0.150	0.010	0.013	2.172	0.614	0.084	14%	CBMH4
16*	4.100	0.121	0.011	0.380	0.030	0.010	0.013	0.747	0.009	0.202	100%*	STM MH3
17	3.900	0.400	0.126	1.257	0.100	0.010	0.013	1.657	0.208	0.202	97%	STM MH4

*FLOW CONTROLLED BY 121mm ORIFICE TUBE.

Storm Inlet Structure	Catchment ID	Drainage Catchment Area (m²)	Impervious (m2)	Pervious (m2)	Runoff Coefficient (100-yr Storm)	Intensity of 100yr storm at Tc=10min (mm/hr)	100 yr Storm flow @Tc=10 min (m³/s)	Runoff Volume (m³)
CB1	A	970.27	635.49	334.78	0.68	178.56	0.033	19.527
CBMH1	B	521.37	495.57	25.80	0.87	178.56	0.022	13.476
CB2	C	625.87	610.77	15.10	0.88	178.56	0.027	16.484
CBMH2	D	574.36	574.36	0.00	0.90	178.56	0.026	15.396
EX.STM MH1	E	146.50	146.50	0.00	0.90	178.56	0.007	3.927
CB3	F	606.60	285.99	320.61	0.56	178.56	0.017	10.053
CBMH3	G	385.11	205.60	179.51	0.60	178.56	0.011	6.848
CB4	N	150.40	0.00	150.40	0.25	178.56	0.002	1.120
CBMH4	H	923.22	677.00	246.22	0.73	178.56	0.033	19.980
BUILDING	I	316.64	316.64	0.00	0.90	178.56	0.014	8.488
CANOPY RWL 1	J	54.67	54.67	0.00	0.90	178.56	0.002	1.465
CANOPY RWL 2	K	54.51	54.51	0.00	0.90	178.56	0.002	1.461
CANOPY RWL 3	L	54.46	54.46	0.00	0.90	178.56	0.002	1.460
CANOPY RWL 4	M	54.02	54.02	0.00	0.90	178.56	0.002	1.448
TOTAL		**5438**	**4165.58**	**1272.42**			**0.20**	**121.13**

REVISION TABLE

REV.	DESCRIPTION	DRAWN	APP'D. DATE

ISSUE TABLE

TO	FOR	DATE
SUNCOR	ISSUED FOR REVIEW	16 MAR '26
SUNCOR	ISSUED FOR COORDINATION	05 AUG '26
SUNCOR	ISSUED FOR SPA	23 SEP '26

METRIC

ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.. CONTRACTOR TO CHECK/VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. ALL DESCREPANCIES TO BE REPORTED TO THE PROJECT DESIGNER. DO NOT SCALE DRAWINGS.

SEAL

LICENSED PROFESSIONAL ENGINEER — M. Y. SAM — 100127775 — Sep 23, 2026 — PROVINCE OF ONTARIO

CONSULTANT

J+B ENGINEERING INC.
TORONTO
25 CENTURIAN DR.
SUITE 200
MARKHAM, ON L3R 0N8
416 229 2636
CALGARY
838-11TH AVE. SW
SUITE 255
CALGARY AB T2R 0E2
403 389 2295

PETRO-CANADA
A Suncor Energy Business

DRAWING TITLE:
STORM SEWER REFERENCE SHEET

PROJECT:
2180 MONTREAL RD
@SHEFFORD RD
OTTAWA, ON

DRAWN BY: EM	CAD INFO.:
	SHEET SIZE D (559 x 864)
DRAWING SCALE: 1:200	PETRO-CANADA
DATE DRAWN: DEC 03 '25	CONSULTANT 250344-P-306
CHECKED BY:	PLOT SCALE 1:1
APPROVED BY:	PLOT DATE
	PLOT CONFIGURATION
STD No./OUTLET No. **65004**	SHEET No. **P306**