



**PROJECT:**

**LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO**

**PROJECT NO:**

**600401**

**DATE:**

**2023-06-14**



160, boulevard de l'Hôpital, Gatineau (Québec) J8T 8J1  
T 819 303 2700  
info@equipelaurence.ca | equipelaurence.ca

**LIB KANATA - KANATA AVENUE AND MARITIME WAY  
PROJET 600401 - PLANS ÉMIS FOR SITE PLAN APPLICATION RÉVISION 10, LE 2023-06-14**

**D07-12-21-0163**

TECHNICAL AND GENERAL SPECIFICATIONS

1.0 GENERAL SPECIFICATIONS

All work shall conform with Ontario building code, latest edition as well as local regulation and bylaws.

Contractor to verify all dimensions and report any discrepancies to the engineer immediately to get design confirmation before proceeding with construction.

Refer to the City of Ottawa for regulations and standards (supersedes provincial standards).

Refer to Ontario Provincial Standards for Roads and Public Works - Volume 3 for details.

Ontario provincial standards for roads and public works must also be respected.

Work to be performed in accordance with the Occupational Health and Safety Act and Regulations for Construction Projects.

All materials shall meet all current applicable standards set by the American Water Works Association ("AWWA"), Canadian Standards Association ("CSA"), the American National Standards Institute ("ANSI") safety criteria standards, American Society for Testing and Materials (ASTM), NSF/14, NSF/60 and NSF/61.

The Contractor will get approval for all materials selection from the Civil Engineer prior to delivery to the site.

BUILDING OWNER: EMO BATIMO

CONSULTING CIVIL ENGINEER: EQUIPE LAURENCE INC.

2.0 GENERAL INFORMATIONS

2.1 UNDERGROUND SERVICES

The plans show certain underground installations for the sole purpose to highlight the existence of cables, pipelines and underground structures. In the sectors where work must be performed, the contractor is responsible to verify himself with the competent authorities the existence and actual location of all cables, pipelines and existing underground structures that may affect the works.

Before beginning excavations, the contractor must thus contact the Ontario One Call (www.onecall.com), the municipal authorities and all other state holders in order to identify on the field all existing underground structures whether they are shown on the plans or not.

He is responsible for damages to cables, pipelines and underground structures. No cost variation resulting from underground structures not shown or poorly located on the plans can be claimed against the building owner. Following the review of the plans and specifications, the contractor must notify the engineer of any error, omission or discrepancy noted by him before starting work.

2.2 EXISTING WATERMAIN AND SEWER CONDUITS

The location of the watermain and sewer pipes is approximate. The contractor must verify and validate the position and depth of the pipes by the means of meticulous excavations. Should discrepancies be observed, they must be provided to the engineer without delay in order that the required modifications are made to the construction plans. The contractor will have to coordinate with the city the connecting works to the existing networks (watermain and sewers). No service interruption shall take place without the building owner's authorization or the relevant authorities.

2.3 PROTECTION AGAINST EROSION

As per "Erosion and sediment control guideline for urban construction" In all areas of the building site where there is a risk of erosion, the ground must be stabilized. Runoff water must be intercepted and routed to stabilized areas and this, throughout the construction period. The contractor must use the recognized methods to prevent the transport of sediments.

- Sediment barrier
- Mud mat
- Sedimentation pond
- Filtration berm and sediment trap
- Straw bale filter

Any intervention on the building site which may cause the transfer of sediments must be simultaneously accompanied by sediment capture measures.

2.4 DRAINING OF THE EXCAVATIONS

The contractor shall take all necessary precautions to prevent the generation of surface waters and to evacuate surface, underground or sewer waters. Waste waters must be directed towards a combined sewer or a sanitary sewer and the surface and underground waters towards a storm sewer, a combined sewer or a ditch. In all cases, the diversion site must be submitted for approval. The contractor must assume all required pumping and cleaning costs.

2.5 PAVEMENT PROTECTION

At all times, the movement of machinery and metal tracked vehicles is prohibited on paved surfaces unless plywood sheets with a 20mm normal thickness or rubber with a 12,5mm thickness are used in order to avoid damaging pavement. All repairs or complete replacements of pavement is the contractor's responsibility, who will have to pay all the costs.

2.6 CLEANING OF SITE

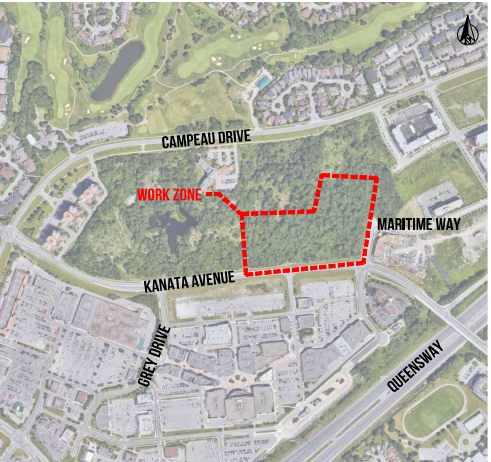
At the end of the construction works and as often as requested by the project superintendent, the contractor must clean and eliminate all construction generated debris and restore all construction affected areas. The cleaning of the construction site is included in the global market unit prices.

3.0 SITE GRADING

Surface topsoil layer stripping required. Low-lying areas may be filled by utilizing soil cut from higher area and by importing suitable fill materials. The approved subgrade may be raised to design subgrade level with approved compactable onsite soil, providing it is placed in maximum 300 mm thick lifts and each lift is compacted to at least 95% of the material's SPND. As an alternative to subexcavation, a woven geotextile separator, such as Terratrack 24-15, Amoco 2002, Miraf 630K, or equivalent, may be placed over spongy areas prior to placing the Granular 'B' sub-base layer.

4.0 CONCRETE WORKS

All weather exposed concrete shall have 5 to 8% air entrainment or as otherwise specified in Tables 2 and 4 of CSA A23.1. Concrete sidewalk as per OPSD 310.010. Foundation consist of 150 mm minimum of granular 'A' material. Sidewalk concrete thickness shall be 200 mm. Concrete barrier curb as per OPSD 600.110. Foundation consist of 150 mm minimum of granular 'A' material.



PROJECT LOCATION  
NO SCALE

CIVIL ENGINEERING LEGEND

EXISTING BUILDING  
PROPOSED BUILDING  
BOTTOM OF EMBANKMENT  
TOP OF EMBANKMENT  
DITCH CENTER  
DITCH TO BE REMOVED  
DITCH CENTER WITH ROCK FILL PROTECTION  
EXISTING FENCE  
FENCE TO BE REMOVED  
PROPOSED FENCE  
SILT FENCE BARRIER  
ISOLATED WETLAND  
EXISTING TREE  
WOODED AREA  
WOODED AREA TO BE REMOVED  
OVERLAND FLOW ROUTE  
GUARDRAIL  
STONE RETAINING WALL  
EXISTING FIRE HYDRANT  
PROPOSED FIRE HYDRANT  
EXISTING WATER SERVICE VALVE  
PROPOSED WATER SERVICE VALVE  
EXISTING WATER PIPE  
EXISTING WATER PIPE TO BE REMOVED  
PROPOSED WATER PIPE  
EXISTING DRINKING WATER SERVICE CONNECTION  
PROPOSED DRINKING WATER SERVICE CONNECTION  
EXISTING SANITARY SEWER AND MANHOLE  
PROPOSED SANITARY SEWER AND MANHOLE  
SANITARY SEWER AND MANHOLE TO BE REMOVED  
EXISTING STORM SEWER PIPE AND MANHOLE  
PROPOSED STORM SEWER PIPE AND MANHOLE  
STORM SEWER AND MANHOLE TO BE REMOVED  
CULVERT  
EXISTING CATCH BASIN OR MANHOLE-CATCH BASIN  
PROPOSED CATCH BASIN OR MANHOLE-CATCH BASIN  
EXISTING STORM SEWER MANHOLE  
PROPOSED STORM SEWER MANHOLE  
EXISTING SANITARY SEWER MANHOLE  
PROPOSED SANITARY SEWER MANHOLE  
LIGHTNING UNIT  
OVERHEAD WIRING AND GUY WIRE  
EXISTING GAS PIPELINE  
BELL CANADA UNDERGROUND CABLE  
UNDERGROUND ELECTRICAL WIRE  
PROPOSED ASPHALT SURFACE  
PROPOSED CONCRETE SIDEWALK/SLAB  
PAVER SIDEWALK  
PROPOSED GRASS SURFACE  
GRANULAR SURFACE  
PROPOSED TEMPORARY MUD MAT  
PROPOSED STONES SURFACE  
PROPOSED GRANITE STONES  
EXISTING ASPHALT SURFACE TO BE REMOVED  
EXISTING SURFACE TO BE REMOVED  
PROPOSED ELEVATION  
PROPOSED ELEVATION OF CONCRETE CURB  
PROPOSED ELEVATION OF CONCRETE SLAB  
PROPOSED TOP ELEVATION OF GRASS  
PROPOSED TOP ELEVATION OF SIDEWALK  
PROPOSED TOP ELEVATION OF RETAINING WALL  
PROPOSED BOTTOM ELEVATION OF RETAINING WALL  
EXISTING ELEVATION OF SURFACE  
GRADING SLOPES  
NORTH

20,000 X  
CR 20,400 X  
C 20,400 X  
O 20,800 X  
S 20,800 X  
TW 20,400 X  
BW 20,400 X  
25.30  
-3.00%

LIST OF PLANS

C-201	TECHNICAL AND GENERAL SPECIFICATIONS, LEGEND AND NOTES LOCATION
C-202	PLAN VIEW EXISTING ITEMS, DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN
C-203A	SITE GRADING AND DRAINAGE PLAN PHASE 1
C-203B	SITE GRADING AND DRAINAGE PLAN PHASE 1 AND 2
C-204	SITE SERVING PLAN AND DRAINAGE AREA
C-205	STANDARD SECTIONS AND DETAILS
C-206	STANDARD SECTIONS AND DETAILS II
C-207	FIRE HYDRANT COVERAGE MAP

Allison Hamlin  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA

2	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2022-09-14
1	FOR ADDENDUM CODE	B.B.	2022-05-05
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2022-09-15
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2022-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2022-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	B.B.	2022-09-16
F	FOR SITE PLAN APPLICATION REVISION 5	A.L.	2022-07-12
E	FOR SITE PLAN APPLICATION REVISION 4	A.L.	2022-07-07
D	FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-05-23
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2022-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

emo batimo  
CONSTRUCTION PROJECTS OF EMO AND BATIMO

PROJECT:  
LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO

LAURENCE  
INGENIERIE CIVILE  
721 chemin Jonction, Piedmont (Ottawa) J8K 3P3  
438.222.1857  
info@equipe-laurence.ca | equipe-laurence.ca

LICENSED PROFESSIONAL ENGINEER  
B. BRAY  
100568973  
Benoit Bray  
PROVINCE OF ONTARIO  
2023-06-14

TITLE:  
TECHNICAL AND GENERAL SPECIFICATIONS, LEGEND AND NOTES LOCATION

SCALE:  
NO SCALE

B. BRAY, ing. P. Eng. / P. Licence CPE	C-201.dwg
DESIGN J.QUESNEL	2021-09-15
DRAWN B. BRAY, ing. P. Eng.	DATE
APPROVED	PROJECT NO. C-201

APPROVED  
By Allison Hamlin at 4:58 pm, Feb 07, 2024

## EROSION AND SEDIMENT CONTROL

### PRE-CONSTRUCTION

- PRIOR TO ANY REMOVAL OF SOIL AND CONSTRUCTION.
- INSTALL SILT FENCE (GEOTEXTILE) AS NOTED.
- INSTALL PROTECTIVE INSERT OVER ALL EXISTING MANHOLES, CATCHBASINS ADJACENT AND IN CONSTRUCTION ZONE AS SILK SACK FROM TERRAZOQUE OR EQUIVALENT. SEE DETAIL.
- CONTROL MEASURES TO BE INSPECTED ONCE INSTALLED.
- CONSTRUCTION OF MUD MATS, SEE CONTRACTOR FOR LOCATION.

### CONSTRUCTION

- MINIMIZE THE EXTENT OF DISTURBED AREAS.
- PROTECT DISTURBED AREAS OF RUNOFF.
- PROVIDE COVER (I.E. MULCH) IF DISTURBED AREAS WILL NOT BE REINSTATED WITHIN A REASONABLE PERIOD OF TIME.
- INSPECT SILT FENCE REGULARLY DURING CONSTRUCTION, CLEAN AND REPAIR, AS REQUIRED.
- CONTROL DUST DURING CONSTRUCTION.

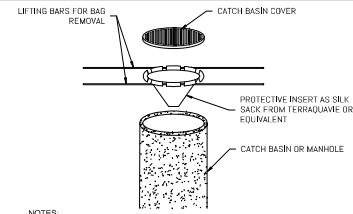
### AFTER CONSTRUCTION

- PROVIDE PERMANENT COVER TO DISTURBED AREAS (I.E. TOPSOIL, AND SEED).
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS (SILT FENCE AND FILTER CLOTHS) ONCE DISTURBED AREAS HAVE BEEN REINSTATED.

### INSPECTIONS

- EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED UPON COMPLETION.
- CONTROL MEASURES ARE TO BE INSPECTED WEEKLY.

CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION, INSPECTIONS AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL MEASURES.



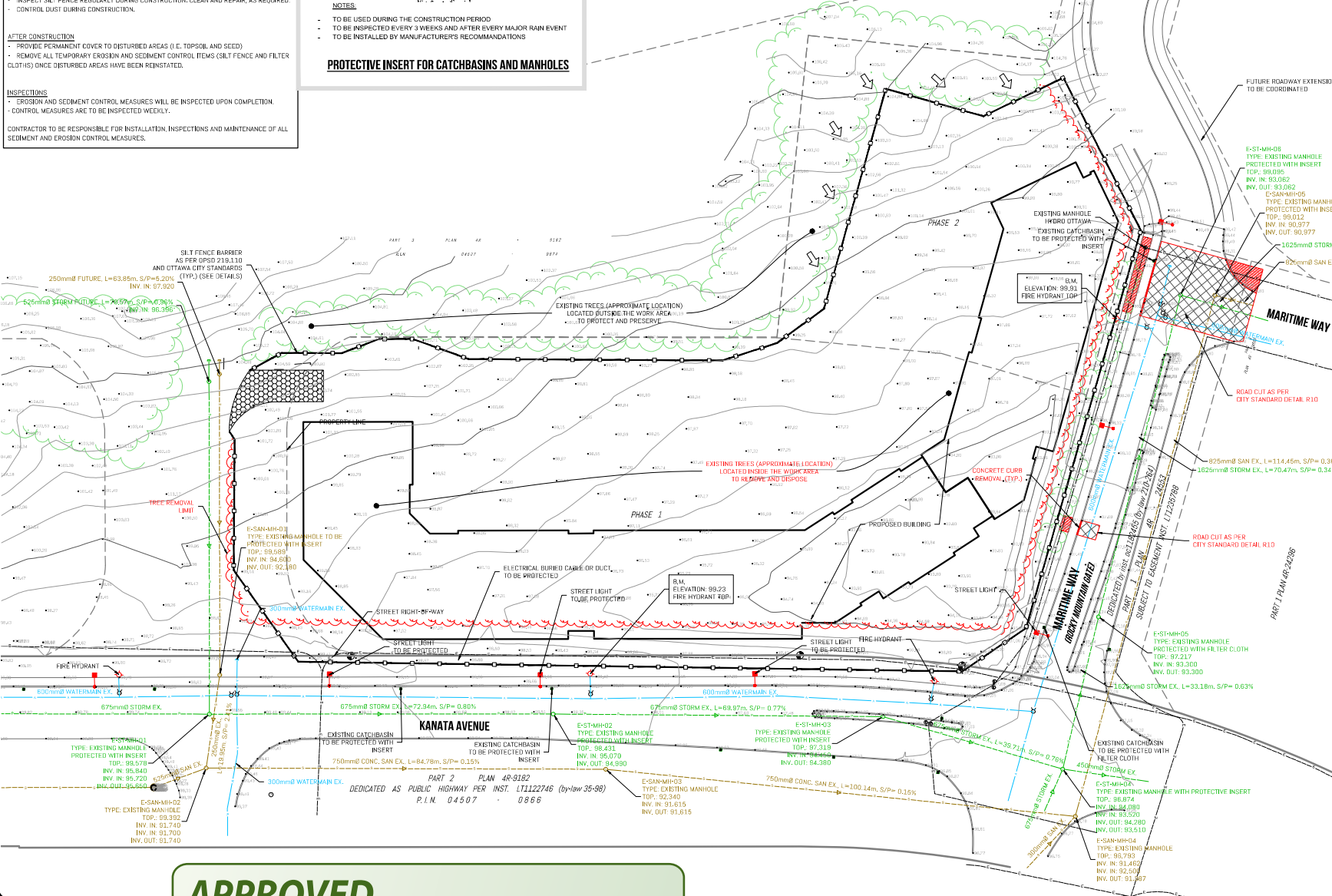
### NOTES

- TO BE USED DURING THE CONSTRUCTION PERIOD
- TO BE INSPECTED EVERY 3 WEEKS AND AFTER EVERY MAJOR RAIN EVENT
- TO BE INSTALLED BY MANUFACTURER'S RECOMMENDATIONS

## PROTECTIVE INSERT FOR CATCHBASINS AND MANHOLES

*Allison Hamlin*

ALLISON HAMLIN  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA



### NOTE:

THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR-GEOMETER ON FILE.

SURVEY AND LOTS INFORMATION PROVIDED BY  
FARLEY, SMITH & DENIS SURVEYING LTD.  
DATE: SEPTEMBER 13 2021  
FILE NO.: 139-21  
PLANIMETRIC REFERENCE SYSTEM: WTM NAD 83 ZONE 9  
ALTIMETRIC REFERENCE SYSTEM: CGVD28 HT2.0

SITE PLAN PREPARED BY  
ROSSMANN  
ARCHITECTURE  
DATE: SEPTEMBER 15 2022  
PROJECT: 21019

EXISTING POWER DUCT BANK, WATERMAIN,  
STORM SEWER AND SANITARY SEWER  
FROM OTTAWA COORDINATING COMMITTEE  
CENTRAL REGISTRY AND CITY OF KANATA  
DEPARTMENT OF ENGINEERING

THE CONTRACTOR MUST NOTIFY ÉQUIPE LAURENCE,  
THE CONSULTANT, IF HE NOTICES ANY DISCREPANCIES  
BETWEEN THE INFORMATION PRESENTED ON THE  
PLANS AND THE MEASUREMENTS TAKEN ON SITE SO  
THAT ADJUSTMENTS CAN BE MADE.  
WHEN APPLICABLE, HE MUST ALSO VERIFY THE  
ELEVATIONS OF EXISTING SEWERS BEFORE STARTING  
CONSTRUCTION AND MUST PROVIDE THE INFORMATION  
TO THE CONSULTANT.

REV	DESCRIPTION	DATE
2	FOR SITE PLAN APPLICATION REVISION 10	B.B. 2023-09-14
1	FOR ADDENDUM C01	B.B. 2023-09-08
0	ISSUED FOR CONSTRUCTION REV. 00	B.B. 2023-09-17
J	FOR SITE PLAN APPLICATION REVISION 9	B.B. 2023-09-15
I	FOR SITE PLAN APPLICATION REVISION 8	B.B. 2023-09-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B. 2023-09-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L. 2022-09-16
F	FOR SITE PLAN APPLICATION REVISION 5	A.L. 2022-07-13
E	FOR SITE PLAN APPLICATION REVISION 4	A.L. 2022-07-07
D	FOR SITE PLAN APPLICATION REVISION 3	A.L. 2022-03-23
C	FOR SITE PLAN APPLICATION REVISION 2	A.L. 2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L. 2021-09-24
A	FOR SITE PLAN APPLICATION	A.L. 2021-09-17

CLIENT  
**emo batimo**  
CONSTRUCTION PROJECTS OF COMMERCIAL DEVELOPMENT

PROJECT  
LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO

**LAURENCE**  
ÉQUIPE LAURENCE  
223 Gensler Boulevard, Piedmont (Québec) J8R 3P3  
418-227-1887  
info@equipe-laurence.ca | equipe-laurence.ca

LICENSED PROFESSIONAL ENGINEER  
B. BRAY  
100568973  
B. Bray (Prof)  
PROVINCE OF ONTARIO  
2023-06-14

TITLE  
PLAN VIEW  
EXISTING ITEMS, DEMOLITION AND  
EROSION AND SEDIMENT CONTROL PLAN

SCALE: Horizontal 1:400  
B. BRAY, ing. P. Eng / F. Lacroix, CPE  
DESIGN  
J.QUESNEL  
DRAWN  
B. BRAY, ing. P. Eng.  
APPROVED  
C-202, dng  
2023-09-15  
DATE  
600401  
PROJECT NO.  
PLAN NO.

**APPROVED**

By Allison Hamlin at 4:58 pm, Feb 07, 2024



EXISTING POWER DUCT BANK, WATERMAIN, STORM SEWER AND SANITARY SEWER FROM OTTAWA COORDINATING COMMITTEE CENTRAL REGISTRY AND CITY OF KANATA DEPARTMENT OF ENGINEERING

SURVEY AND LOTS INFORMATION PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD. DATE: SEPTEMBER 13 2021 FILE NO.: 139-21 PLANIMETRIC REFERENCE SYSTEM: MTM NAD 83 ZONE 9 ALTIMETRIC REFERENCE SYSTEM: CGVD28 HT2.0

SITE PLAN PREPARED BY ROSSMANN ARCHITECTURE DATE: FEBRUARY 16 2023 PROJECT: 21019

NOT TO SCALE  
(PLANARY)

NOT TO SCALE  
(ELEVATION)

ALLISON HAMLIN  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA



#### NOTE:

THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR-GEODEMETER ON FILE.

UNLESS OTHERWISE STATED, ALL PROPOSED ELEVATIONS SHOWN ON PLAN REPRESENT THE ELEVATION OF THE PAVEMENT SURFACE /PROJECTED TERRAIN.  
ADD 0.15m TO SEE THE ELEVATION OF THE SIDEWALK OR ADJACENT

THE CONTRACTOR MUST NOTIFY ÉQUIPE LAURENCE, THE CONSULTANT, IF HE NOTICES ANY DISCREPANCIES BETWEEN THE INFORMATION PRESENTED ON THE PLANS AND THE MEASUREMENTS TAKEN ON SITE SO THAT ADJUSTMENTS CAN BE MADE.  
WHEN APPLICABLE, HE MUST ALSO VERIFY THE ELEVATIONS OF EXISTING SEWERS BEFORE STARTING CONSTRUCTION AND MUST PROVIDE THE INFORMATION TO THE CONSULTANT.

#### ADDITIONAL LEGEND

28.30% X	PROPOSED ELEVATION
CB 26.450% X	PROPOSED ELEVATION OF CONCRETE CURB
C 26.450% X	PROPOSED ELEVATION OF CONCRETE SLAB
G 26.450% X	PROPOSED TOP ELEVATION OF GRASS
S 26.450% X	PROPOSED TOP ELEVATION OF SIDEWALK
TV 26.450% X	PROPOSED TOP ELEVATION OF RETAINING WALL
W 26.450% X	PROPOSED BOTTOM ELEVATION OF RETAINING WALL
±0.30	EXISTING ELEVATION OF SURFACE
±0.30	ELEVATION OF FUTURE ROADWAY BY OTHER
-3.00%	GRADING SLOPES
	NORTH

FOR SITE PLAN APPLICATION REVISION 10	S.B.	2023-06-14
FOR ADDENDUM C01	S.B.	2023-06-08
ISSUED FOR CONSTRUCTION REV. 00	S.B.	2023-05-17
FOR SITE PLAN APPLICATION REVISION 9	S.B.	2023-03-15
FOR SITE PLAN APPLICATION REVISION 8	S.B.	2023-03-08
FOR SITE PLAN APPLICATION REVISION 7	S.B.	2023-02-02
FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
FOR SITE PLAN APPLICATION REVISION 5	A.L.	2022-07-12
FOR SITE PLAN APPLICATION REVISION 4	A.L.	2022-01-07
FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-05-23
FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-12-07
FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-08-24
FOR SITE PLAN APPLICATION	A.L.	2021-09-24

CLIENT: **emo batimo**  
CONSTRUCTION PROJECTS BY DESIGN INCORPORATED

PROJECT: LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO



772, Chemin Jean-Jacques, Piedmont (Ottawa) J0E 1B0  
1 450 227 1857  
info@laurence.ca | www.laurence.ca



TITLE: SITE GRADING AND DRAINAGE PLAN  
PHASE 1

SCALE: Horizontal 1:400 0 10 20 m

DESIGN	B. BRAY, ing. P. Eng. / P. Lacour, CPE	C-203A.dwg
DRAWN	J. JONES, NEL	2023-09-15
DATE	B. BRAY, ing. P. Eng.	600401
APPROVED		PROJECT NO.
		PLAN NO.

APPROVED

By Allison Hamlin at 4:58 pm, Feb 07, 2024

\*and project0000712\_1000000.dwg, 2023-05-14 9:08:19 AM, liberty

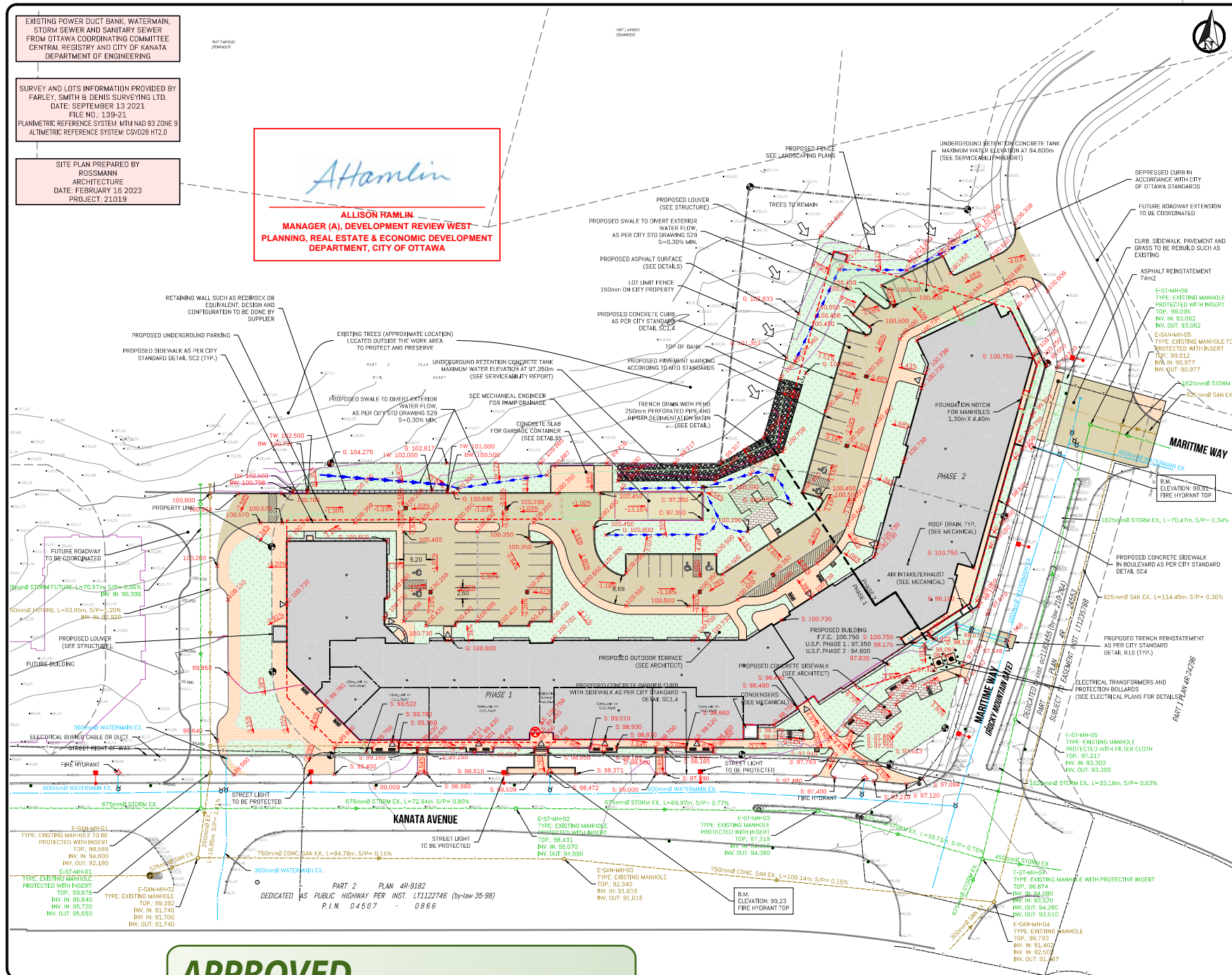
007-12-21-0163

# 18603



SITE PLAN PREPARED BY  
ROSSMANN  
ARCHITECTURE  
DATE: FEBRUARY 16 2023  
PROJECT: 21019

ALLISON HAMLIN  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA



**NOTE:**

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UNLESS OTHERWISE STATED, ALL PROPOSED  
ELEVATIONS SHOWN ON PLAN REPRESENT THE  
ELEVATION OF THE PAVEMENT SURFACE  
/PROJECTED TERRAIN.  
ADD 0.15m TO SEE THE ELEVATION OF THE  
SIDEWALK OR ADJACENT

THE CONTRACTOR MUST NOTIFY ÉQUIPE LAURENCE, THE CONSULTANT, IF HE NOTICES ANY DISCREPANCIES BETWEEN THE INFORMATION PRESENTED ON THE PLANS AND THE MEASUREMENTS TAKEN ON SITE SO THAT ADJUSTMENTS CAN BE MADE.

WHEN APPLICABLE, HE MUST ALSO VERIFY THE ELEVATIONS OF EXISTING SEWERS BEFORE STARTING CONSTRUCTION AND MUST PROVIDE THE INFORMATION TO THE CONSULTANT.

#### ADDITIONAL LEGEND

26.30 X	PROPOSED ELEVATION
CB: 26.450 X	PROPOSED ELEVATION OF CONCRETE CURB
C: 26.450 X	PROPOSED ELEVATION OF CONCRETE SLAB
S: 26.450 X	PROPOSED TOP ELEVATION OF GRASS
SW: 26.450 X	PROPOSED TOP ELEVATION OF SIDEWALK
DW: 26.450 X	PROPOSED TOP ELEVATION OF RETAINING WALL
	PROPOSED BOTTOM ELEVATION OF RETAINING WALL
26.30	EXISTING ELEVATION OF SURFACE
X 26.30	ELEVATION OF FUTURE ROADWAY BY OTHER
-3.00%	GRADES SLOPES
	NORTH

P	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-06-
L	FOR ADDENDUM C01	B.B.	2023-06-
J	ISSUED FOR CONSTRUCTION REV. 00	B.B.	2023-06-
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-06-
H	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-06-
G	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-
F	FOR SITE PLAN APPLICATION REVISION 6	A.J.	2022-09-
E	FOR SITE PLAN APPLICATION REVISION 5	A.J.	2022-07-
D	FOR SITE PLAN APPLICATION REVISION 4	A.J.	2022-07-
C	FOR SITE PLAN APPLICATION REVISION 3	A.J.	2022-06-
B	FOR SITE PLAN APPLICATION REVISION 2	A.J.	2022-10-
A	FOR SITE PLAN APPLICATION REVISION 1	A.J.	2021-09-
	FOR SITE PLAN APPLICATION	A.J.	2021-09-

emd batimo

LIB KANATA  
KANATA AVENUE AND MARITIME WAY



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T 450 227 1857  
info@equipe-laurence.ca | equipe-laurence.ca



SITE GRADING AND DRAINAGE PLAN  
PHASE 1 AND 2

Grade	Number of students
3	4
4	6
5	8
6	10
7	12
8	14
9	16
10	18
11	20
12	22

R. BRAY, ing. P. Eng / F. Lacraix CPI	C-203B.dwg
DESIGN	DRAWING
L.QUESNEL	2021-09-15
DRAWN	DATE
R. BRAY, ing. P. Eng.	600401
PROJECT NO.	C-203
	PLAN NO.

**APPROVED**

*By Allison Hamlin at 4:58 pm, Feb 07, 2024*





Location	Station Number (m)	Size (mm)	Type	obvert (m)	Ground Elevation (m)	soil cover (m)	type of fitting
1	0	200	PVC DR-18	96.200	100.750	4.550	angle
2	2.25	200	PVC DR-18	95.773	98.173	2.4	angle
3	5.12	200	PVC DR-18	95.700	98.100	2.4	angle
4	13.84	200	PVC DR-18	95.570	97.970	2.4	Metering chamber
5	25.93	200	PVC DR-18	95.152	97.552	2.4	Valves



NAME	DETAILS	ELEVATIONS/INVERTS
ST-MH-01	1200mm FLOWRATE REGULATOR	INVIN: 93.400 INV. OUT: 93.400 SUMP: 92.950
ST-MH-02	1200mm	INVIN: 93.460 INV. OUT: 93.460 SUMP: 93.460
ST-MH-03	1200mm	INVIN: 93.540 INV. OUT: 93.540 SUMP: 93.540
ST-MH-04	1200mm	INVIN: 93.590 INV. OUT: 93.590 SUMP: 93.590
ST-MH-05	1200mm	INVIN: 96.090 INV. OUT: 96.090 SUMP: 96.090
ST-MH-06	1200mm FLOWRATE REGULATOR	INVIN: 95.940 INV. OUT: 95.940 SUMP: 95.940
ST-MH-07	1200mm	INVIN: 95.900 INV. OUT: 95.900 SUMP: 95.900
ST-MH-08	1200mm	INVIN: 96.100 INV. OUT: 96.100 SUMP: 96.100
ST-MH-09	1200mm	INVIN: 96.100 INV. OUT: 96.500 SUMP: 96.500

NAME	DETAILS	ELEVATIONS/INVERTS
SAN-MH-01	1200mm	INV.IN: 95.190 INV. OUT: 95.130
SAN-MH-02	1200mm	INV.IN: 95.010 INV.IN: 94.950 INV. OUT: 94.850
SAN-MH-03	1200mm	INV.IN: 94.280 INV. OUT: 94.280

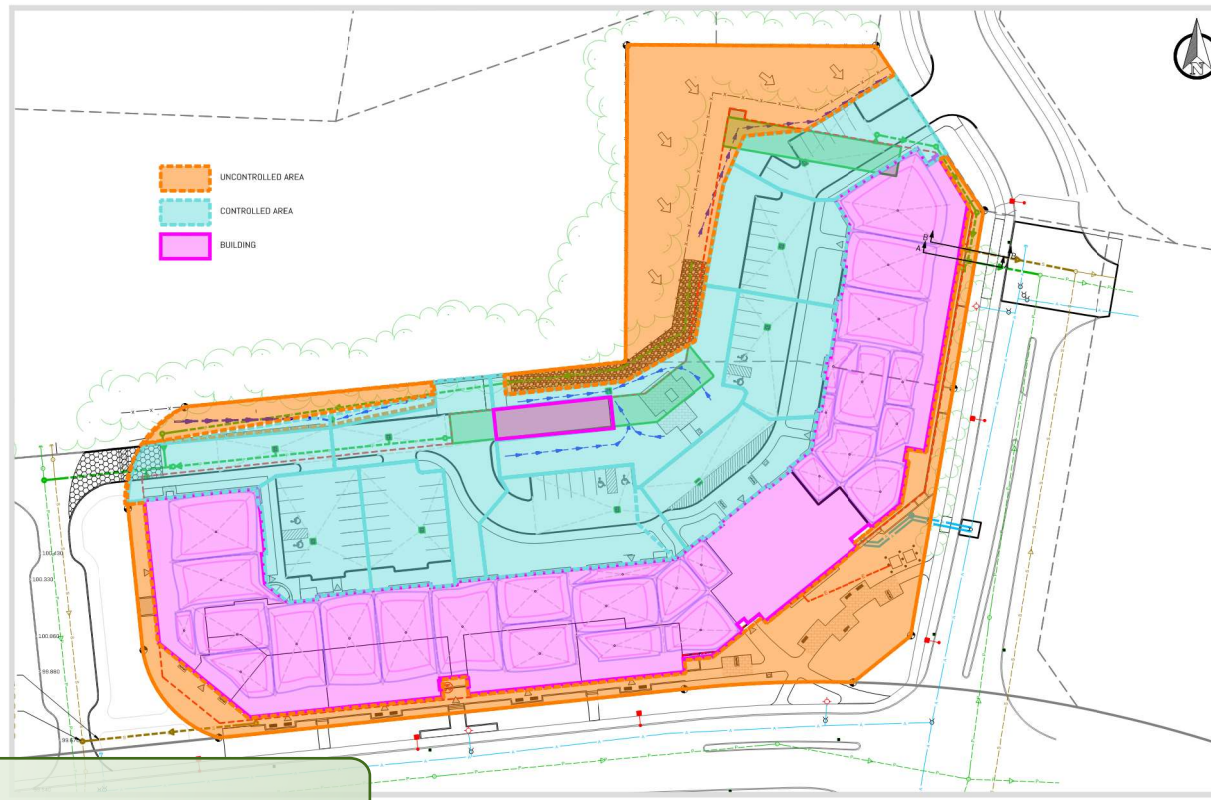
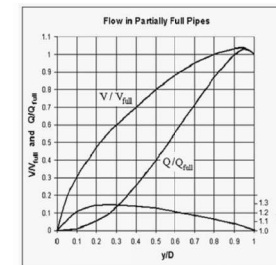
\*Provide Benching as per OSDG 6.2.12

NAME	DETAILS	ELEVATIONS/ INVERTS	AREA (ha)	5-YR COEFFICIENT	100-YR COEFFICIENT
CB-01	SEE MECHANICAL	TOP: 100.400	0.0555	0.900	1.000
CB-02	SEE MECHANICAL	TOP: 100.300	0.0592	0.900	1.000
CB-03	SEE MECHANICAL	TOP: 100.300	0.0565	0.900	1.000
CB-04	Catch Basin 600mm	TOP: 100.200	0.0734	0.789	0.893
		INVERT: 96.150 SUMP: 95.850			
CB-05	SEE MECHANICAL	TOP: 100.350	0.0567	0.900	1.000
CB-06	SEE MECHANICAL	TOP: 100.350	0.0635	0.900	1.000
CB-07	SEE MECHANICAL	TOP: 100.250	0.0430	0.900	1.000
CB-08	SEE MECHANICAL	TOP: 100.250	0.0533	0.900	1.000
CB-09	Catch Basin 600mm	TOP: 100.230	0.0674	0.827	0.922
		INVERT: 96.070 SUMP: 95.760			
CB-10	Catch Basin 600mm	TOP: 100.230	0.0462	0.823	0.918
		INVERT: 96.010 SUMP: 95.710			
CB-11	Catch Basin 600mm	TOP: 100.050		uncontrolled runoff	
		INVERT: 97.400 SUMP: 97.100			

Upstream Location	Downstream Location	Diameter (d)	Type	Upstream invert	Downstream invert	Length (m)	Slope (%)	Capacity (Qf) (l/s)	Velocity full (Vf) (m/s)	Flowrate (Q) (l/s)	Q/Qf	y/D	Velocity (m/s)
Building - Phase 1	SAN MH-01	250	PVC DR-35	95.200	95.190	1.00	1.00	59.47	1.21	5.85	0.10	0.30	0.73
	SAN MH-02	250	PVC DR-35	95.130	95.010	35.90	0.33	34.38	0.70	5.85	0.17	0.35	0.48
Building - Phase 2	SAN MH-03	250	PVC DR-35	94.300	94.290	1.00	1.00	59.47	1.21	3.99	0.07	0.22	0.61
	SAN MH-05	200	PVC DR-35	84.290	83.850	21.80	2.01	46.49	1.48	3.99	0.09	0.18	0.65

Upstream Location	Downstream Location	Diameter (ø)	Type	Upstream Invert	Downstream Invert	Length (m)	Slope (%)	Capacity (Q1) (L/s)	Flowrate (Q) (L/s)	Q/Q1
Building Phase 1	ST-MH-05	375	PVC	96.100	96.090	1.1	0.91	167.17	66.6	0.40
	ST-MH-05	375	PVC	96.090	95.935	59.13	0.26	89.77	66.6	0.74
	ST-MH-06	375	PVC	95.935	95.900	18.35	0.19	76.57	66.6	0.87
	ST-MH-04	300	PVC	93.600	93.590	1	1.00	96.70	6	0.06
Building Phase 2	ST-MH-04	300	PVC	93.590	93.540	11.7	0.43	63.22	6	0.09
	ST-MH-03	300	PVC	93.540	93.460	14.58	0.55	71.63	6	0.08
	ST-MH-02	300	PVC	93.460	93.400	11.08	0.54	71.16	6	0.08
	ST-MH-01	300	PVC	93.400	93.243	15.72	1.00	96.70	6	0.06
	ST-MH-01	E-ST-MH-06	300	PVC	93.200	93.200	0	0.00	0	0

Pipe	Type	Invert (m)	Difference (m)
Stormwater pipe	300mm PVC	93.400	0.58
Sanitary pipe	250 mm PVC	94.280	



At Hamlin

ALLISON HAMLIN  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA

2	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-06-15
1	FOR ADDENDUM C01	B.B.	2023-05-15
0	ISSUED FOR CONSTRUCTION REV. 00	B.B.	2023-03-03
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-03
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-03
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-15

CLIENT

CLIENT: **emo batimo**

PROJECT:  
LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO



733, chemin Jean-Adam, Piedmont (Québec) J0R 1  
T 450 227 1857  
info@equipelaurence.ca | equipelaurence.ca



TITLE:  
SITE SERVICING PLAN  
AND DRAINAGE AREA

SCALE

B. BRAY, ing. P. Eng / F. Lacroix CPI	C-204.dwg
DESIGN	DRAWING
J.QUESNEL	2021-09-15
DRAWN	DATE
B. BRAY, ing. P. Eng.	600401
APPROVED	PROJECT NO

007-12-21-0153

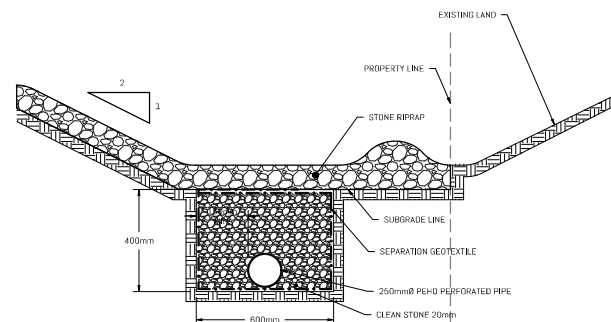
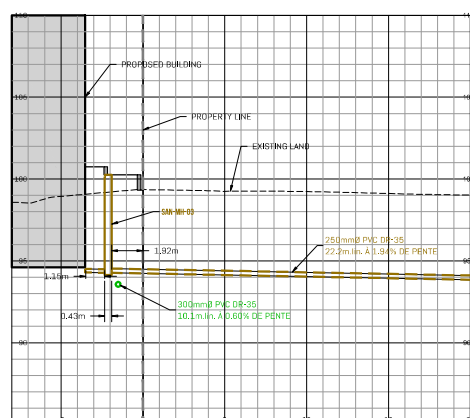
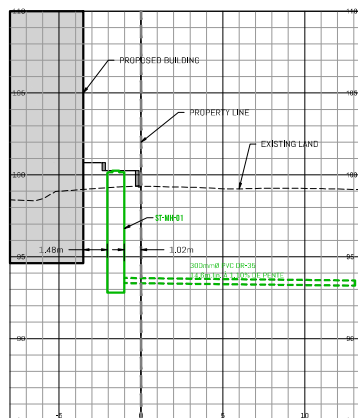
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**APPROVED**

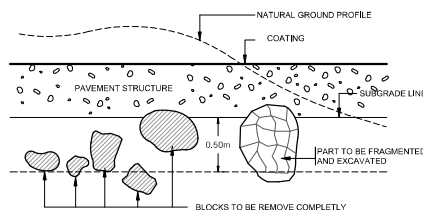
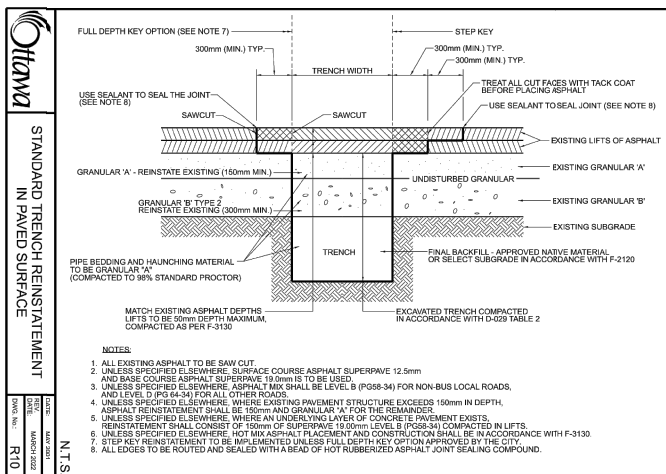
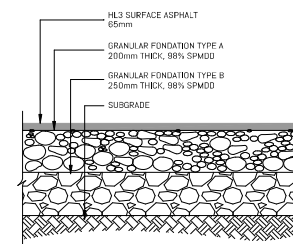
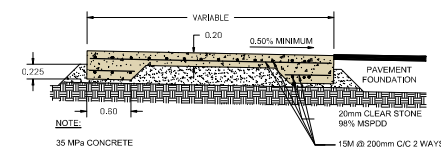
*By Allison Hamlin at 4:58 pm, Feb 07, 2024*







NOTES:



### SUBGRADE PREPARATION DETAIL

**PARKING AND ACCESS**  
**FOUNDATION ASPHALT SURFACE**  
(TO BE VERIFIED BY GEOTECHNICAL ENGINEER)

*Allan Hamlin*

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ALLISON HAMLIN  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA

2	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-09-14
1	FOR ADDENDUM C01.	B.B.	2023-05-08
0	ISSUED FOR CONSTRUCTION REV. 01.	B.B.	2023-03-17
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
F	FOR SITE PLAN APPLICATION REVISION 5	A.L.	2022-07-12
E	FOR SITE PLAN APPLICATION REVISION 4	A.L.	2022-07-07
D	FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-03-23
REV	DESCRIPTION	BY	DATE

CLIENT: **emo batimo**  
CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

PROJECT:  
LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO



733, chemin Jean-Adam, Piedmont (Québec) J6R 1R3  
T 450 227 1857  
info@equipe-laurence.ca | equipe-laurence.ca



TITLE: STANDARD SECTIONS AND DETAILS II

SCALE: NO SCALE

B. BRAY, ing. P. Eng / F. Lacroix CPI	C-206.dwg
DESIGN	DRAWING
J.QUESNEL	2021-09-15
DRAWN	DATE
B. BRAY, ing. P. Eng.	600401
APPROVED	PROJECT NO
	PLAN NO

**APPROVED**  
By Allison Hamlin at 4:58 pm, Feb 07, 2024



FIRE FLOW DEMAND = 16,000L  
TOTAL FIRE FLOW CONTRIBUTION = 47,500L

150m FROM  
BUILDING FOOTPRINT

75m FROM  
BUILDING FOOTPRINT

BUILDING FOOTPRINT

- HYDRANTS  $\leq 75m$
- HYDRANTS  $> 75m \ \& \ \leq 150m$
- HYDRANTS  $> 150m$

**APPROVED**  
By Allison Hamlin at 4:58 pm, Feb 07, 2024

*All Hamlin*  
ALLISON HAMLIN  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA

2	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-09-14
1	FOR ADDENDUM C03	B.B.	2023-05-28
0	ISSUED FOR CONSTRUCTION REV. 00	B.B.	2023-05-17
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-05-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-05-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-10-16
F	FOR SITE PLAN APPLICATION REVISION 5	A.L.	2022-07-12
E	FOR SITE PLAN APPLICATION REVISION 4	A.L.	2022-07-07
D	FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-05-23

CLIENT: **emo batimo**  
CONSTRUCTION PROJECTS BY EXPERT CONSULTING INCORPORATED

PROJECT:  
LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO

**LAURENCE**  
INGENIERIE CIVILE  
221, Avenue Jean-Jacques, Piedmont (Ottawa) J3K 3K3  
T: 450 227 3857  
info@laurenceinc.ca | www.laurenceinc.ca



TITLE:  
FIRE HYDRANT COVERAGE MAP

SCALE: Horizontal 1:1000 0 10 20 30m

B. BRAY, ing. P. Eng. / P. Licence C-207	DATE
J. JOLIESNEL	2021-09-15
DATE	
B. BRAY, ing. P. Eng.	C-207
PROJECT NO.	PLAN NO.

\*not project00000716\_2024-02-07.dwg, 2024-02-07 9:10:21 AM, 100kg