

**Rehabilitation of the sewers,
the watermain and the
parking lot of the workshop
and rehabilitation of the 15,5
site of the Lachine Canal**

Addendum no 5

Project Number: CLAC-1803



Prepared for:
Parks Canada Agency

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Sign-off Sheet

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THIS ADDENDUM IS AN INTEGRAL PART OF THE BID DOCUMENTS TO WHICH IT REFERS, COMPLETING, AMENDING OR ELIMINATING CERTAIN ELEMENTS.

DETAILS AND CHANGES TO QUOTE AND BORDER

The following clarifications are provided following the written questions received from the bidders.

1. SPECIFICATIONS

1.1 In section 1.3.5 of section 01 11 00 Summary of Work

The deadlines for completion of the work are given in section 1.3.5 of section 01 11 00 "Summary of Work".

1.2 In section 1.8 of section 01 14 00 Work restrictions

In section 1.8 "Vibration control" the following clarifications are provided: "The vibration control firm must measure the vibratory waves using seismographs to the structures requiring protection (buildings on the site) and over City of Montreal sewer collector system located on the project site. No control vibration measurements are required on the Mill Street right-of-way. In addition, vibration measurements must be made before the start of the work to measure the current vibrations that will serve as a basis for comparison.

1.3 In Section 1.2.11 of Section 01 29 00 Measurement procedures

The title of section 1.2.11 is replaced by the following: "Mill Street: Street saw cutting for connection of utilities - Rigid pavement repairs (MV-200) (Coordination with the City of Montreal)

1.4 In section 1.7.8 of section 01 29 00 Measurement procedures

Section 1.7.8 is replaced by:

"Element 1.7.8: Supply and installation of a retention basin, using pipes 1200 mm diameter – plastic pipes (HDPE, Polypropylene, fiberglass reinforced polymer (GRP), ..) with a minimum stiffness of 320 kPa including access shafts.

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This item includes the supply and installation of pipes to form the underground retention basin, the access shafts, their assembly, connecting parts, bedding and pipe wrapping, calculations of hydrostatic forces considering the water level at the finished ground level, the basin and its access shafts must design accordingly with dead loads, live loads, the passage of trucks, excavation and backfilling, as well as all other elements required by Tender Documents. The plans must be signed and sealed by an engineer in good standing with the Ordre des ingénieurs du Québec (OIQ).

1.5 In sections 2.1.2, 2.1.3, 2.1.4, 2.1.5 and 2.1.7 of Section 01 29 00 Measurement procedures

Materials to be disposed of in sections 2.1.2, 2.1.3, 2.1.4, 2.1.5 and 2.1.7 of Section 01 29 00 "Measurement procedures" are contaminated soils to be loaded directly into trucks and disposed. Some of these soils come from excavation surplus of trenches.

1.6 In section 1.9.6 of Section 01 35 13.43 Special project procedures for contaminated sites

Section 1.9.6 of Section 01 35 13.43 "Special Project procedures for contaminated sites" is completed by "Sampling and Cost of Testing to be Assumed by the Consultant".

1.7 In section 1.12 of Section 32 11 00 Civil- roadworks

In section 1.12 "Mill Street - Rigid Road Rehabilitation" is added:

Work on the repair of the Rigid Pavement on Mill Street must be done in accordance with the attached MV-200 Board and comply with the Prescriptions normalisées de la Ville de Montreal (Fascicule 2-5). The concrete slab must have a thickness of 200 mm. The bituminous coatings of the base layer and the wear layer must also comply with the specifications of materials 4VM-10 "Enrobés à chaud" of the Ville de Montreal. All work, materials and thicknesses must be approved and coordinated with the Ville de Montreal.

2. APPENDIX E SUBMISSION SLIP

2.1 Submission slip

Page 2 of 7, 3 of 7 and 4 of 7 of the tender slip is replaced by the corresponding pages and marked "Addendum No. 5".

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3. CIVIL DRAWINGS


3.1 Retention basin

The retention basin is composed of 1200mm diameter plastic pipes (HDPE, Polypropylene, fiberglass reinforced polymer (GRP), ..) whose minimum rigidity is 320 kPa. The inlet and outlet pipes of the 750 mm diameter retention pond must be of the same material as the retention basin, whose minimum rigidity is 320 kPa in accordance with the BNQ 1809-300 standard. The retention basin must be watertight, must have two 900 mm diameter access chimneys that must support the loads of the trucks. An adjustable 750mm diameter frame and cover is required at the northeast corner of the retention basin and an adjustable 750mm diameter frame and grid is required at the southwest corner of the retention basin.

The Contractor shall provide design calculations demonstrating the strength of the basin under the following conditions: dead loads, live loads, truck passage, hydrostatic pressure considering the water level at the finished ground level, and plans signed and sealed by an engineer member in good standing of the Ordre des ingénieurs du Québec (OIQ).

Plans and calculations must be provided for approval two (2) weeks prior to commencement of work.



Item	Description	Quantity	Unit	Unit Price	Amount
1.1.18	Supply, transportation, placement and compaction of clean material from off-site to the subgrade limit in accordance with specifications	2600	MT	\$	\$
1.2	Road work				
	<u>Parking lot</u>				
1.2.1	Subgrade preparation	3200	m ²	\$	\$
1.2.2	Supply and placement of geotextile	3200	m ²	\$	\$
1.2.3	Supply and placement of MG-56 subbase, 400 mm thick	3200	m ²	\$	\$
1.2.4	Supply and placement of MG-20 base, 200 mm thick	3200	m ²	\$	\$
1.2.5	Supply and placement of ESG-10asphalt overlay, single course (PG 58-28),60 mm thick	3200	m ²	\$	\$
1.2.6	Marking and signage	1	global	\$	\$
1.2.7	Supply and installation of rigid insulation in the area of the universal access	10	m ²	\$	\$
	<u>Concrete slab</u>				
1.2.8	Supply and installation of reinforced concrete slab, 300 mm thick, for the containers	160	m ²	\$	\$
1.2.9	Supply and placement of MG-20 granular base beneath the slab, 300 mm thick	190	m ²	\$	\$
1.2.10	Supply and installation of rigid insulation beneath the concrete slab	240	m ²	\$	\$
	<u>Mill Street</u>				
 1.2.11	Street saw cutting for connection of utilities – Rigid Pavement repairs (coordination with City of Montreal)	150	m ²	\$	\$
1.3	Concrete sidewalks and curbs				
1.3.1	Construction of concrete curbs	80	LM	\$	\$
1.3.2	Mill Street: Construction of monolithic sidewalk (coordination with City of Montreal)	20	m ²	\$	\$



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Item	Description	Quantity	Unit	Unit Price	Amount
1.4	Sodding				
1.4.1	Sodding with turf, including 150 mm of topsoil	110	m ²	\$	\$
1.5	Water supply pipes				
1.5.1	Supply and placement of soft copper, type K, water supply pipe, 38 mm diameter	39	LM	\$	\$
1.5.2	Supply and installation of key-operated valve box	1	unit	\$	\$
1.5.3	Mill Street: Connection to existing water main (coordination with City of Montreal)	1	unit	\$	\$
1.6	Sanitary sewer				
1.6.1	Supply and placement of PVC DR-28 sanitary sewer branch connection, 100 mm diameter	31	LM	\$	\$
1.6.2	Mill Street: Connection to existing combined sewer (coordination with City of Montreal)	1	unit	\$	\$
1.7	Storm sewer				
1.7.1	Supply and installation of PVC DR-28 storm sewer branch connection, 150 mm diameter	6	LM	\$	\$
1.7.2	Supply and installation of PVC DR-35 storm sewer pipe, 200 mm diameter	20	LM	\$	\$
1.7.3	Supply and installation of TBA Class IV storm sewer pipe, 300 mm diameter	21	LM	\$	\$
1.7.4	Supply and installation of TBA Class IV storm sewer pipe, 375 mm diameter	36	LM	\$	\$
1.7.5	Supply and installation of TBA Class IV storm sewer pipe, 525 mm diameter	22	LM	\$	\$
02 1.7.6	Supply and installation of storm sewer pipe, 750 mm diameter HDPE pipes with smooth inside and outside walls plastic materials pipes with a minimum stiffness of 320 kPa according to the BNQ 1809-300 standard	10	LM	\$	\$
1.7.7	Supply and installation of TBA Class IV storm sewer pipe, 1200 mm diameter	31	LM	\$	\$



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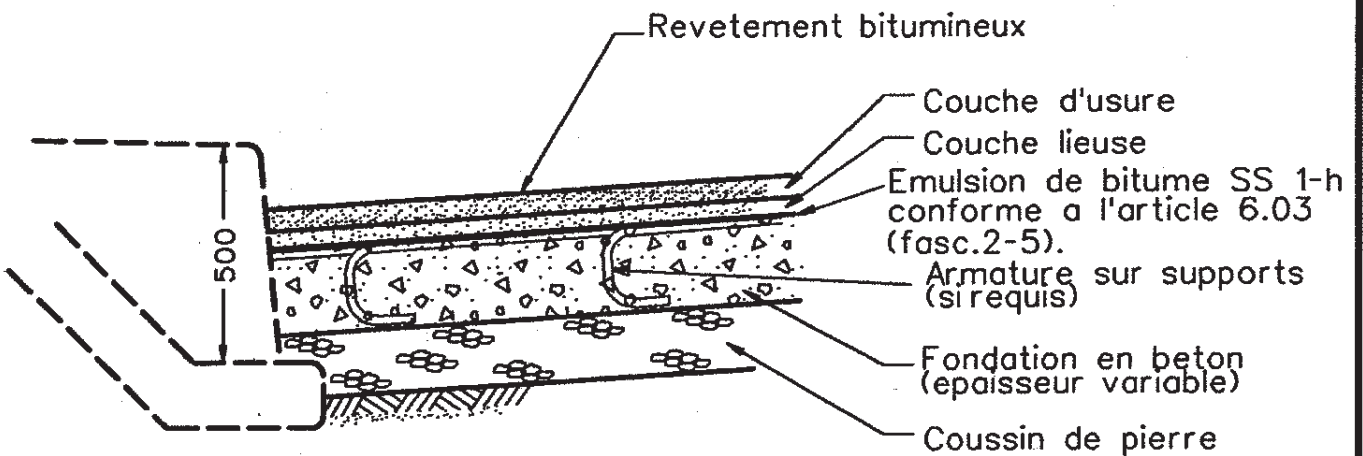
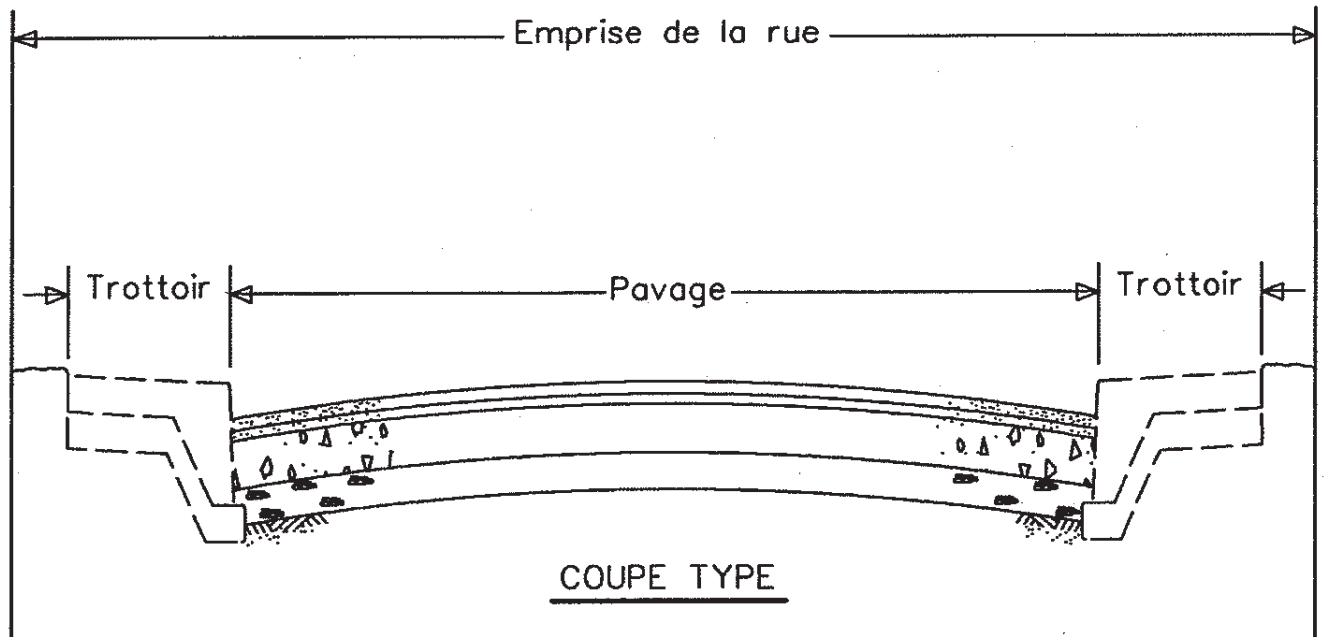
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02

Item	Description	Quantity	Unit	Unit Price	Amount
1.7.8	Supply and installation of a retention basin, pipes 1200 mm diameter, including the drawings signed and sealed by an Engineer HDPE Plastic materials pipes (HDPE, polypropylene, FRP, ...) with a minimum stiffness of 320 kPa with smooth inside and outside walls with a minimum stiffness of 250 kPa according to the ASTM F894 standard, including the access chimneys	1	global	_____ \$	_____ \$
1.7.9	Supply and installation of circular manhole-catch basin, 1200 mm diameter	1	unit	_____ \$	_____ \$
1.7.10	Supply and installation of rectangular storm sewer manhole, 1750 mm X 1550 mm	1	unit	_____ \$	_____ \$
1.7.11	Supply and installation of rectangular storm sewer manhole, 2150 mm X 1750 mm	1	unit	_____ \$	_____ \$
1.7.12	Supply and installation of a regulation chamber, 2435 mm X 2135 mm, including flow regulator and check valve	1	unit	_____ \$	_____ \$
1.7.13	Supply and installation of catch basins, 610 mm diameter, including perforated drains, 150 mm diameter	3	unit	_____ \$	_____ \$
1.7.14	Mill Street: Connection to existing combined sewer (coordination with City of Montreal)	1	unit	_____ \$	_____ \$



PAVAGE DE RUE (RIGIDE)



NOTE: LES EPAISSEURS SONT CONFORMES AUX SPECIFICATIONS DE LA FORMULE DE SOUMISSION ET A CELLES DU CAHIER DES PRESCRIPTIONS NORMALISEES

TOUTES LES DISTANCES EN MILLIMETRES

NOTE: TOUTE REPRODUCTION OU UTILISATION DE CE CROQUIS EST INTERDITE SANS AUTORISATION ECRITE DE LA VILLE DE MONTREAL

DESSINE PAR
ALAIN BELISLE
DATE: 12-12-96

VERIFIE PAR
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JEAN FAVREAU ing.

APPROUVE PAR
A. Dufour
26-3-97

REVISION

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MV-200